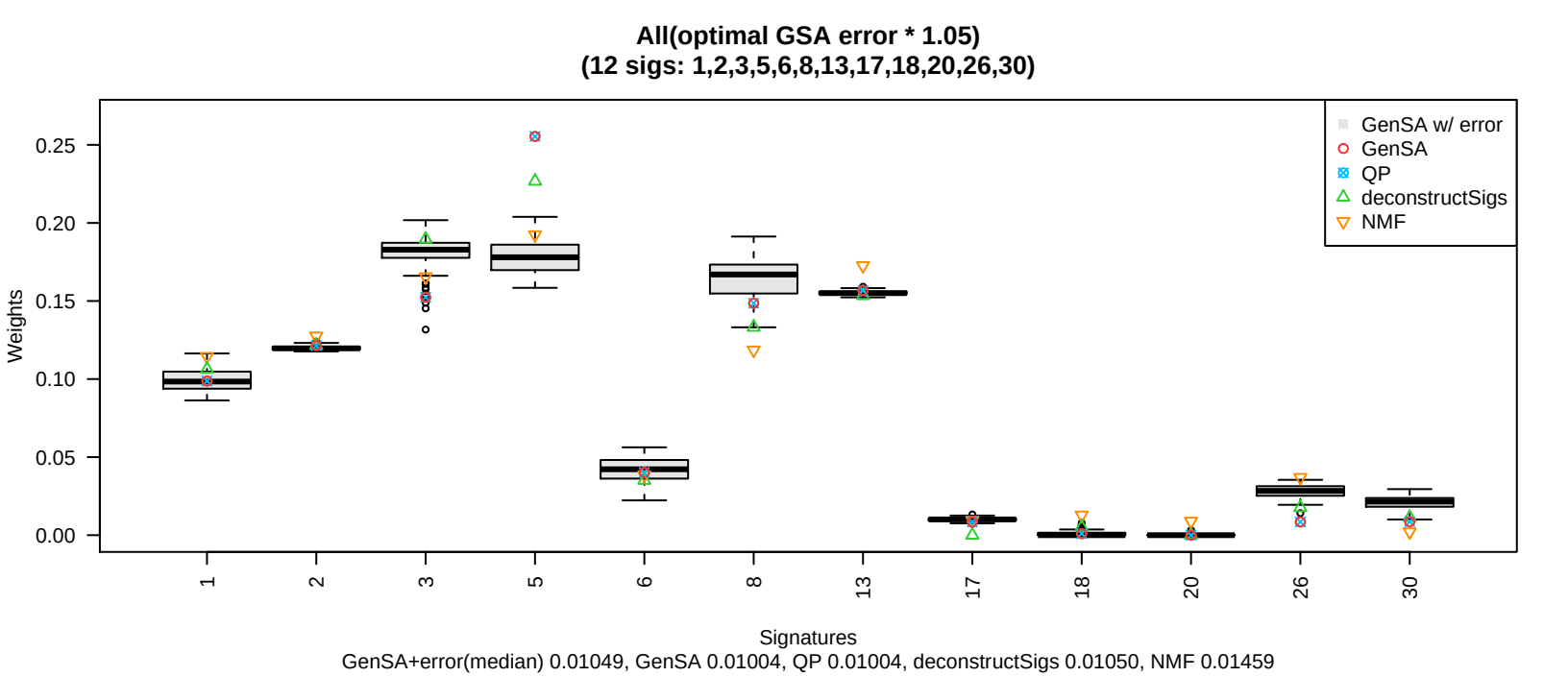
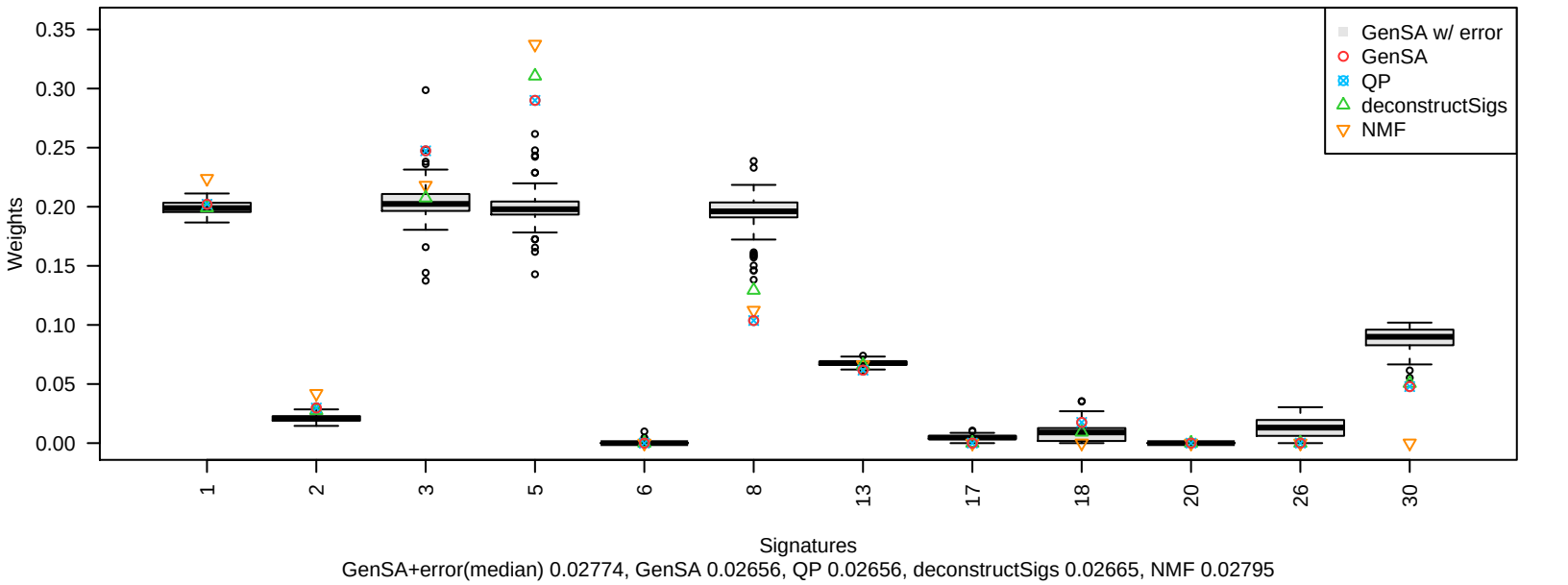
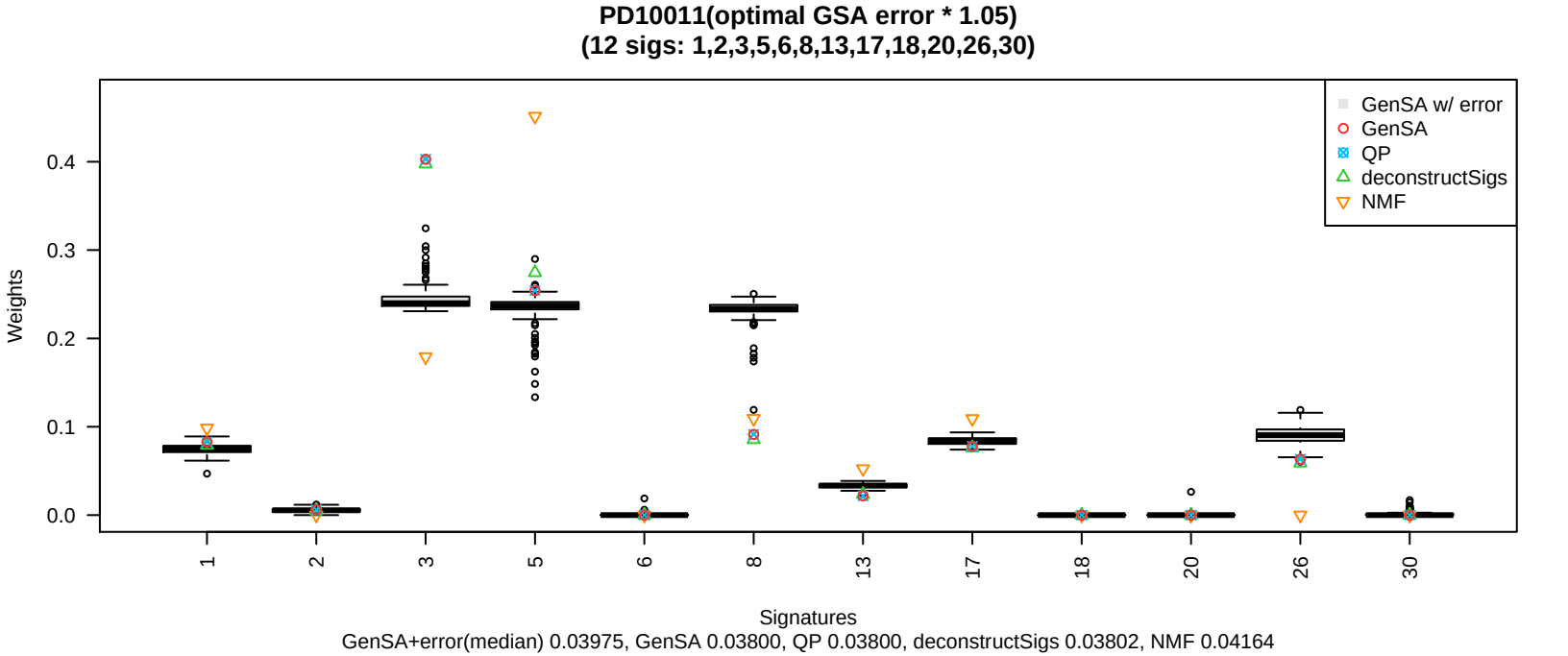
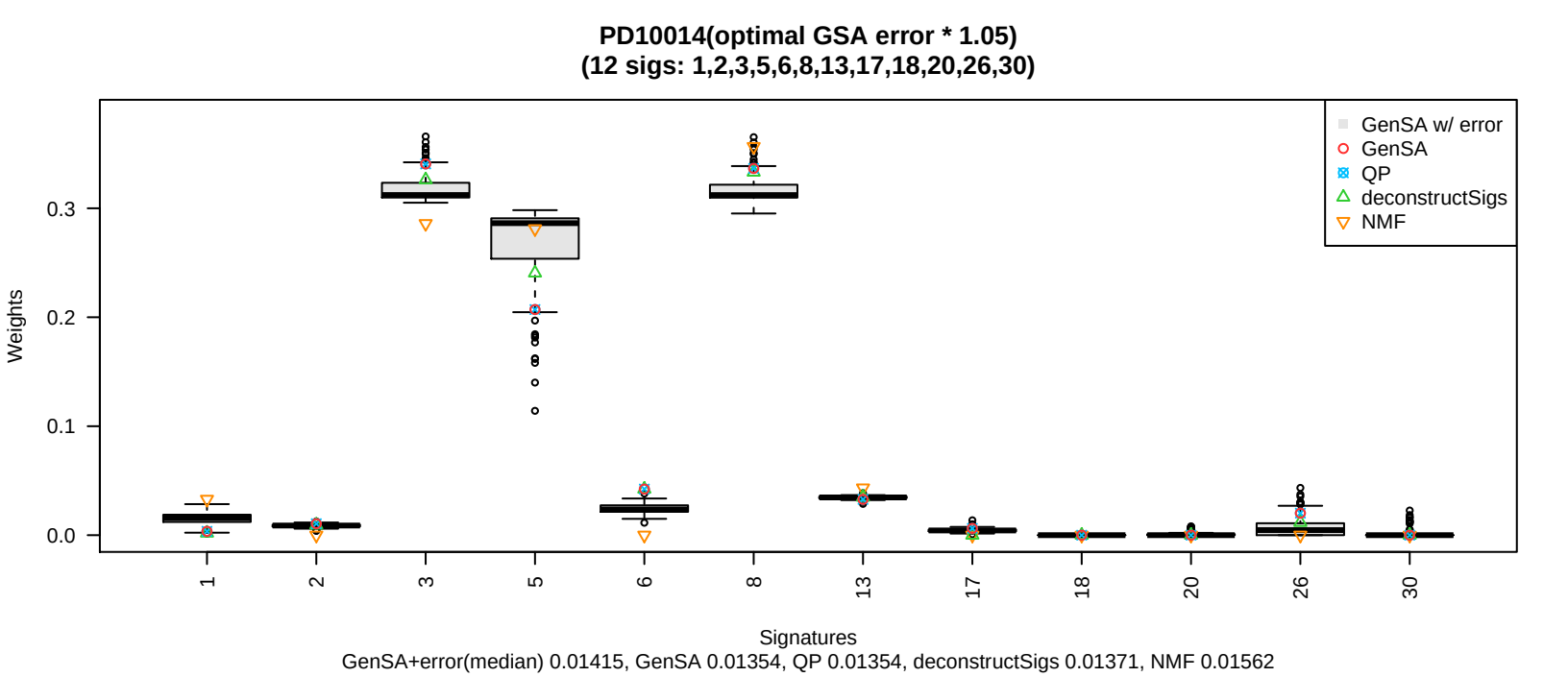
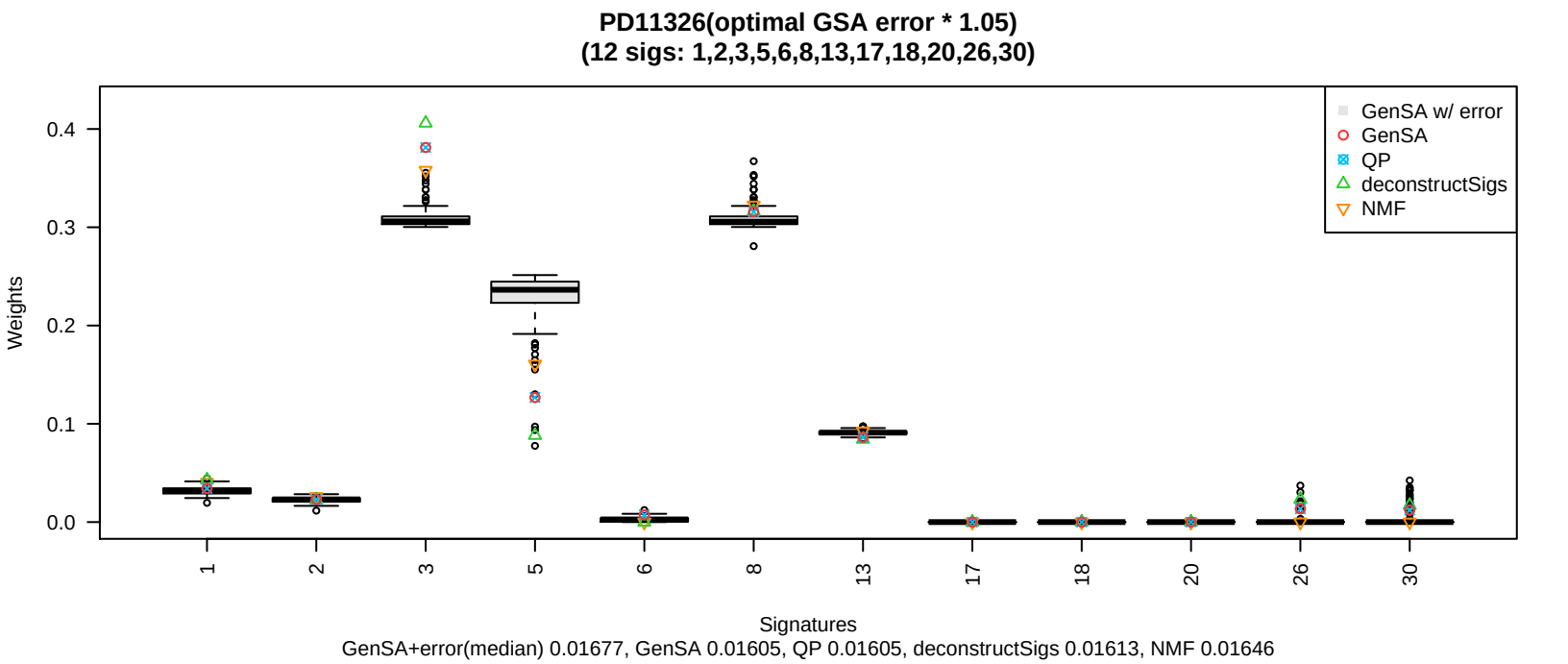

All(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.00
0.05
0.10
0.15
0.20
0.25
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01049, GenSA 0.01004, QP 0.01004, deconstructSigs 0.01050, NMF 0.01459


PD10010(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02774, GenSA 0.02656, QP 0.02656, deconstructSigs 0.02665, NMF 0.02795

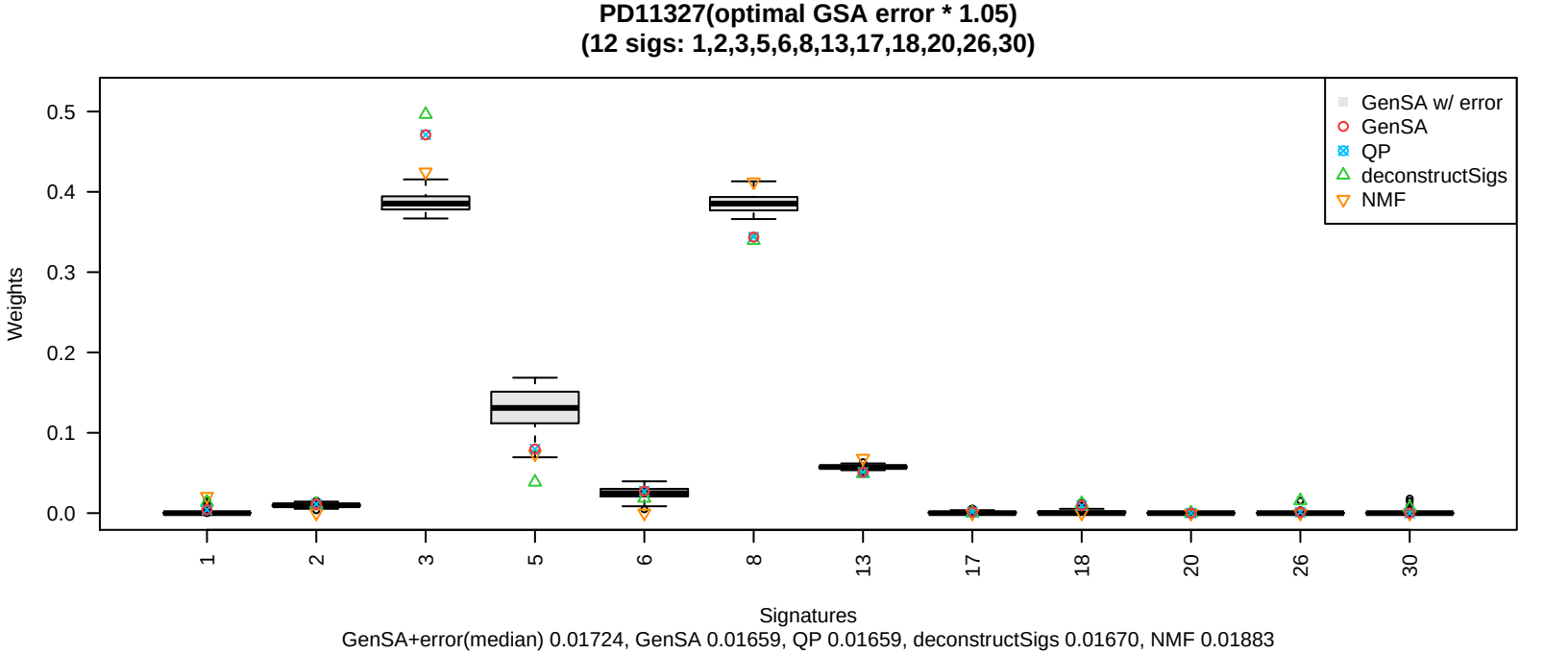

PD10011(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03975, GenSA 0.03800, QP 0.03800, deconstructSigs 0.03802, NMF 0.04164



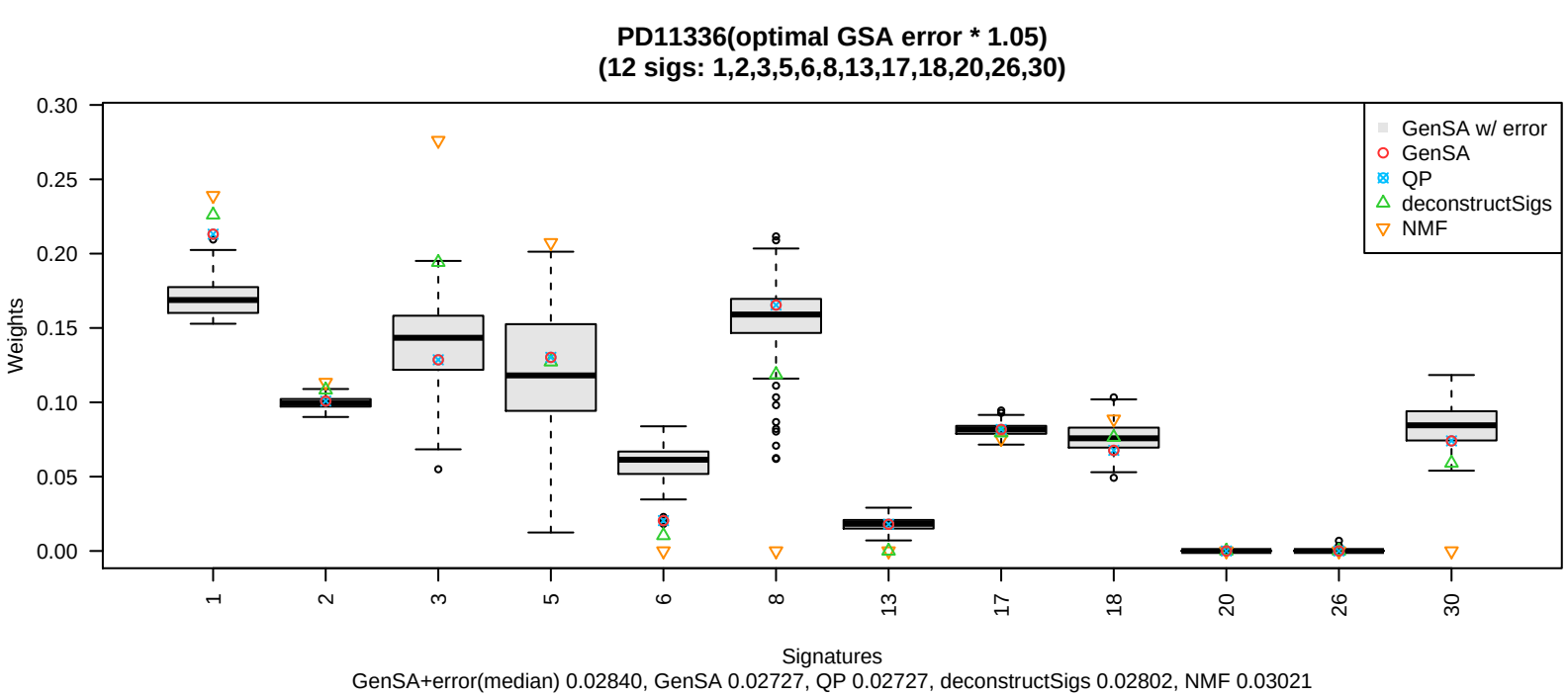
GenSA+error(median) 0.01415, GenSA 0.01354, QP 0.01354, deconstructSigs 0.01371, NMF 0.01562

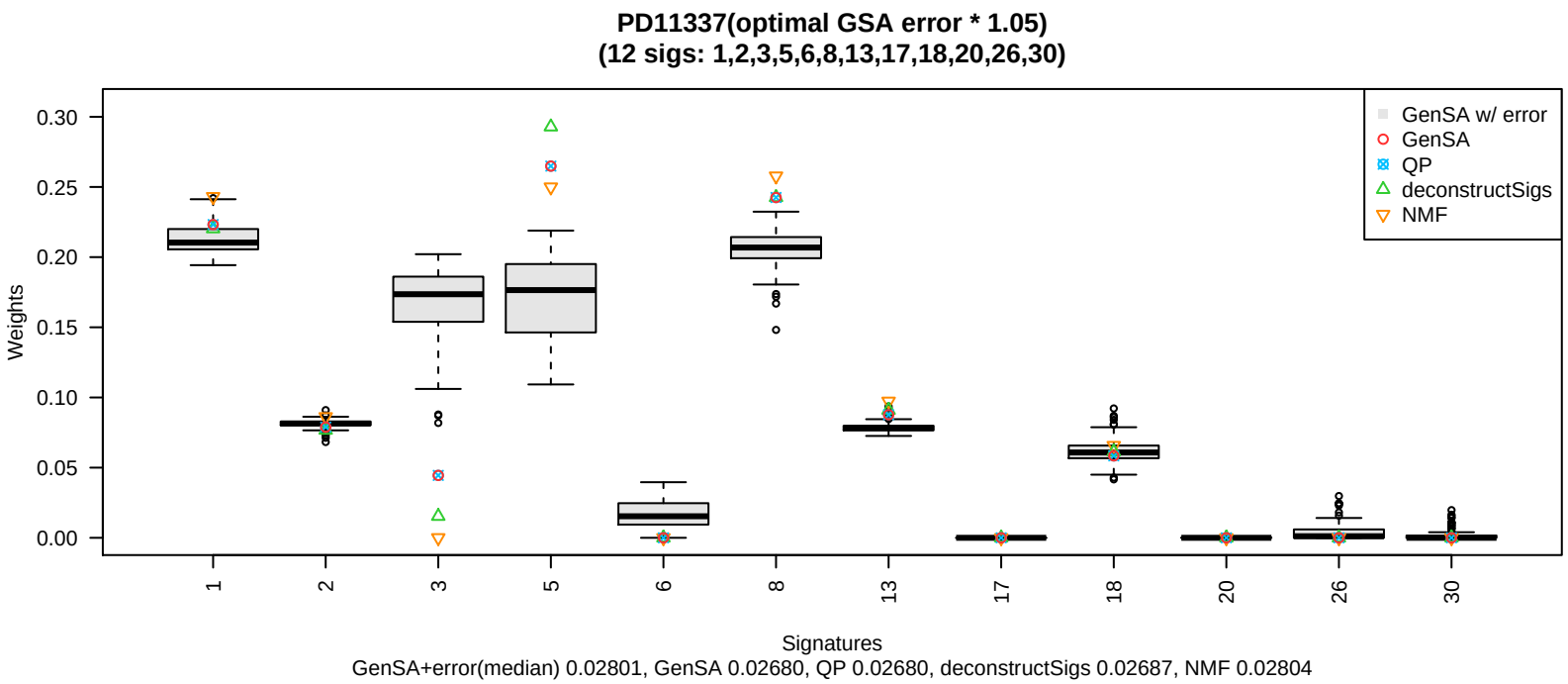


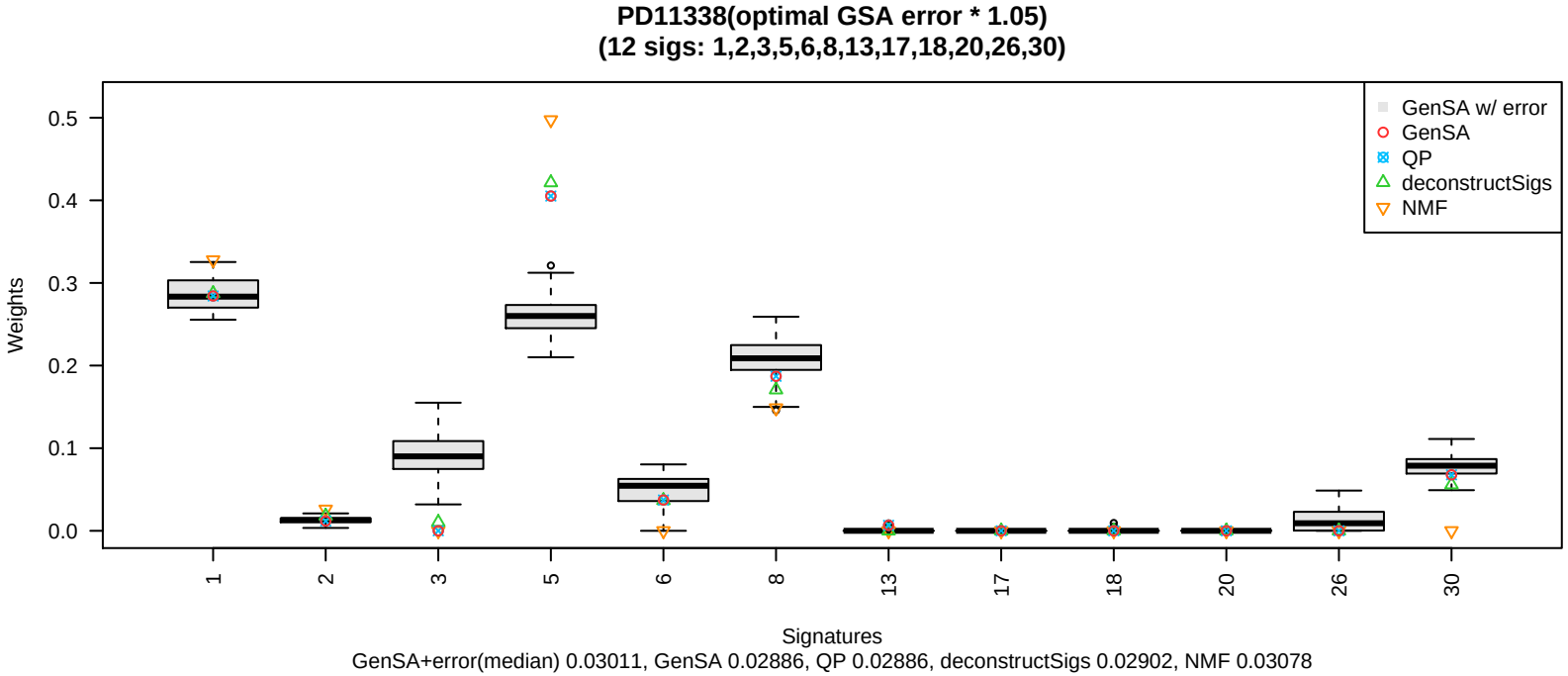
GenSA+error(median) 0.01677, GenSA 0.01605, QP 0.01605, deconstructSigs 0.01613, NMF 0.01646

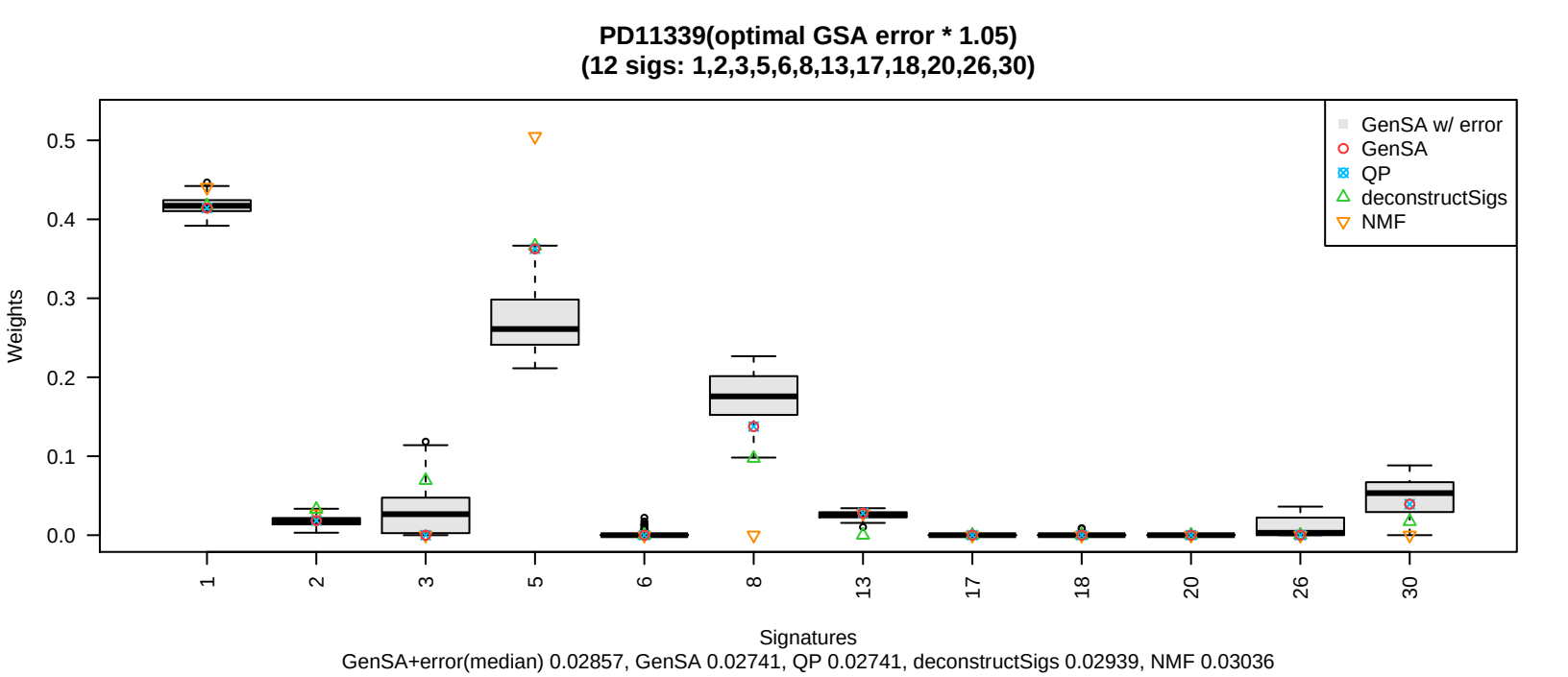


GenSA+error(median) 0.01724, GenSA 0.01659, QP 0.01659, deconstructSigs 0.01670, NMF 0.01883

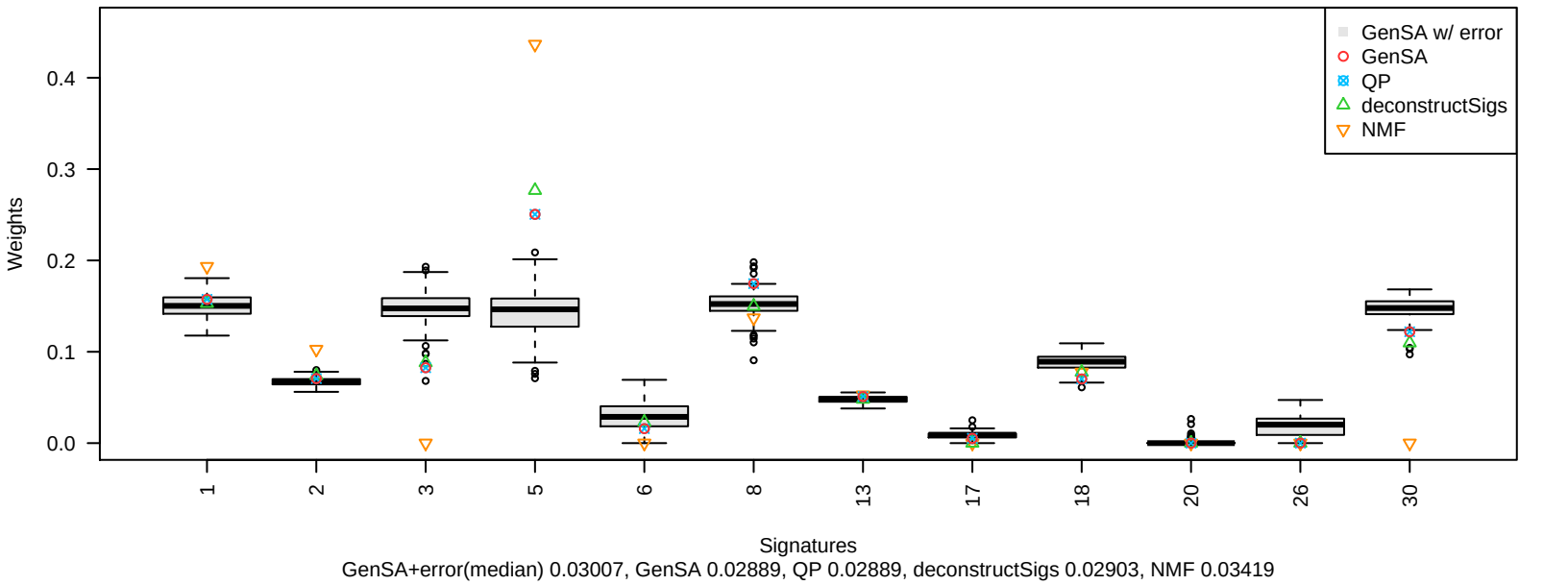

PD11336(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.00
0.05
0.10
0.15
0.20
0.25
0.30
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02840, GenSA 0.02727, QP 0.02727, deconstructSigs 0.02802, NMF 0.03021


PD11337(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.00
0.05
0.10
0.15
0.20
0.25
0.30
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02801, GenSA 0.02680, QP 0.02680, deconstructSigs 0.02687, NMF 0.02804

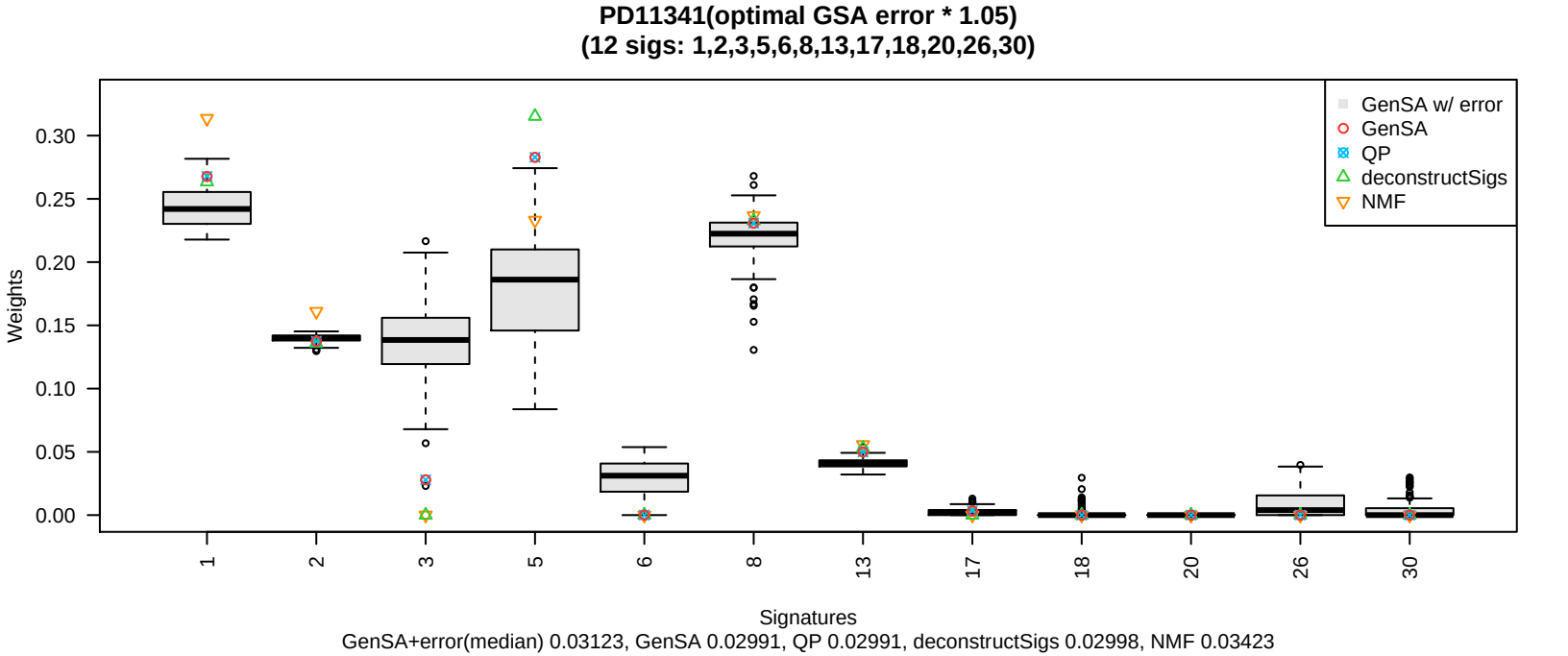

PD11338(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03011, GenSA 0.02886, QP 0.02886, deconstructSigs 0.02902, NMF 0.03078



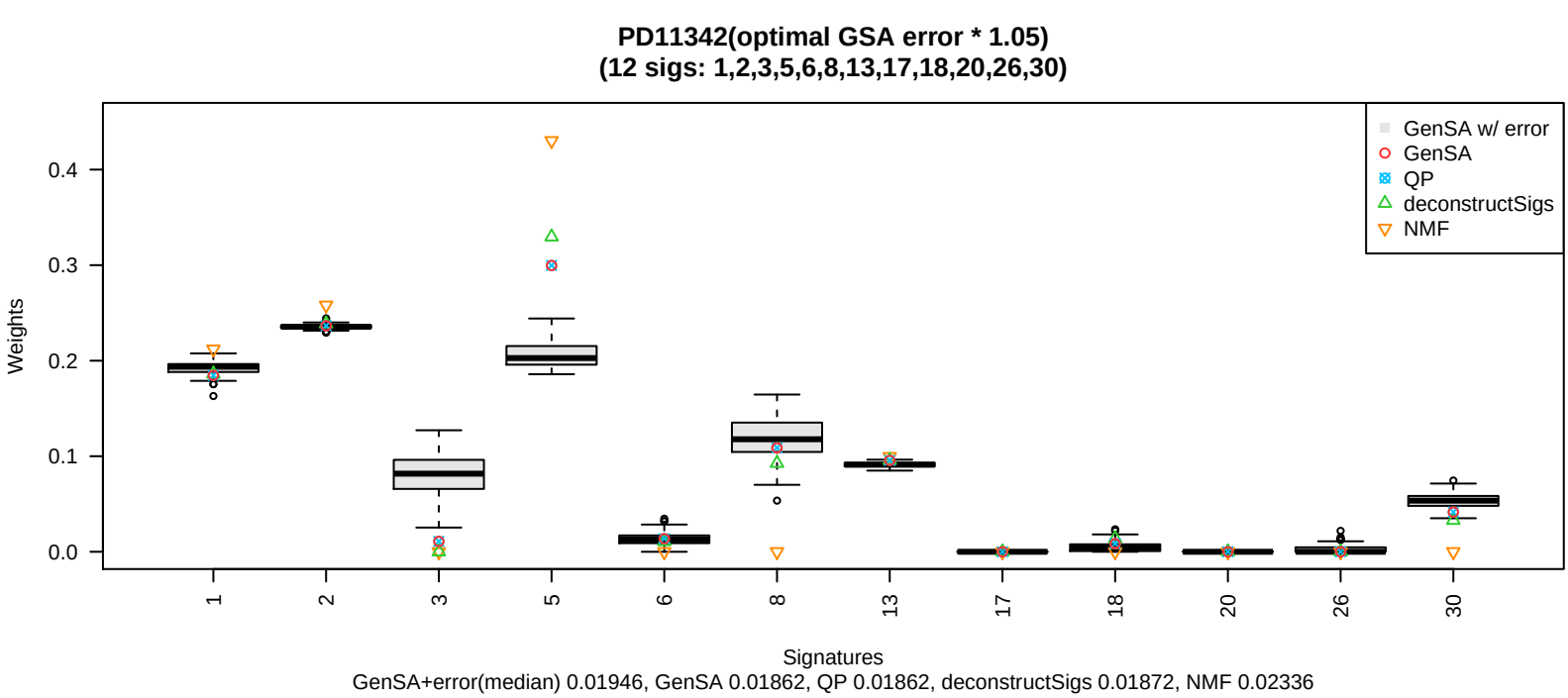
GenSA+error(median) 0.02857, GenSA 0.02741, QP 0.02741, deconstructSigs 0.02939, NMF 0.03036

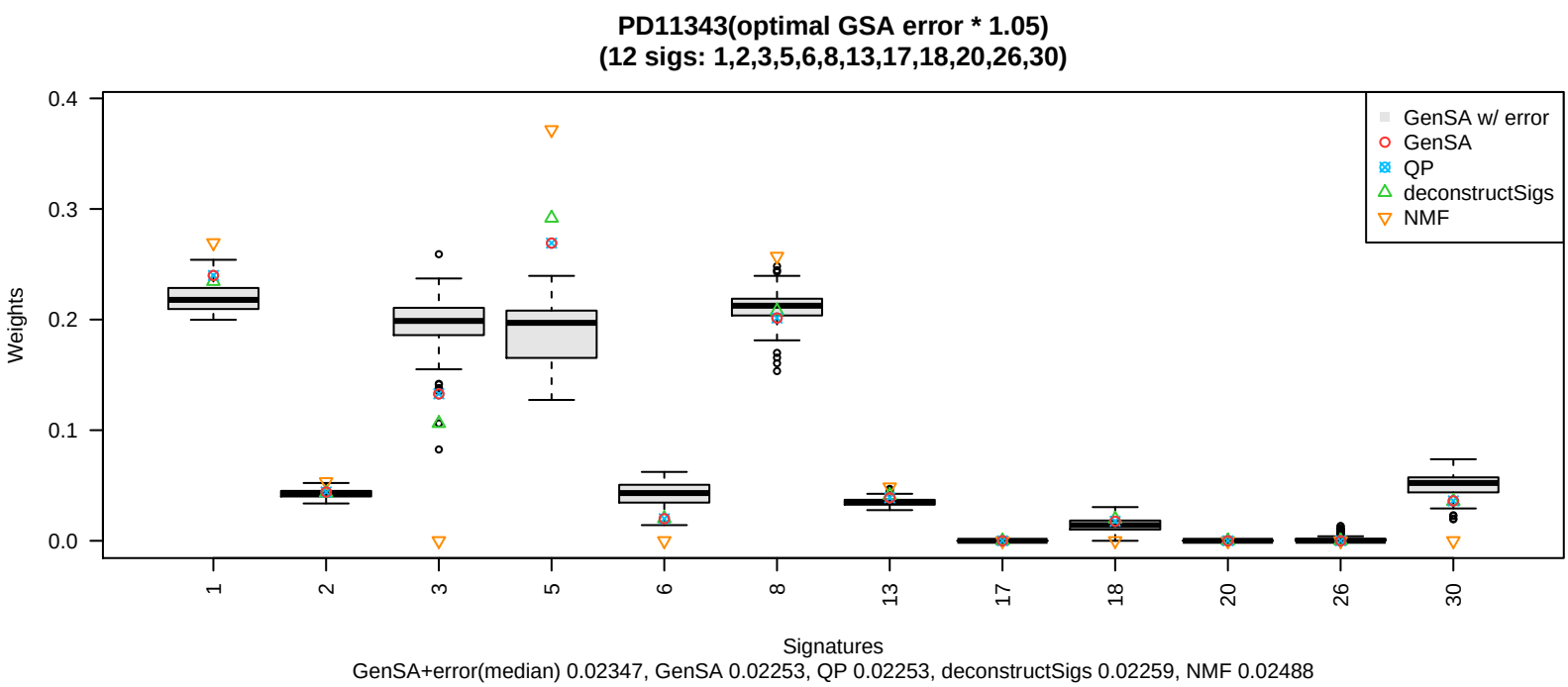


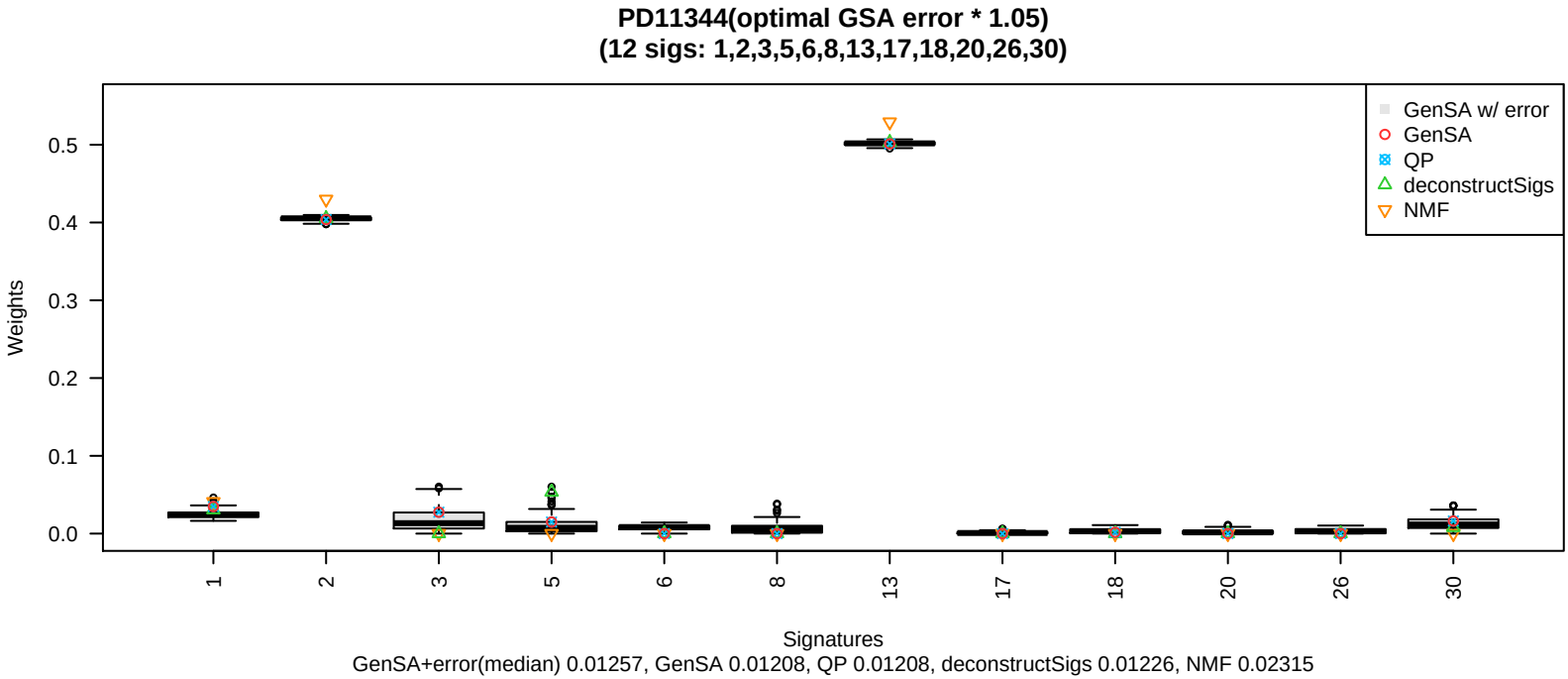
GenSA+error(median) 0.03007, GenSA 0.02889, QP 0.02889, deconstructSigs 0.02903, NMF 0.03419

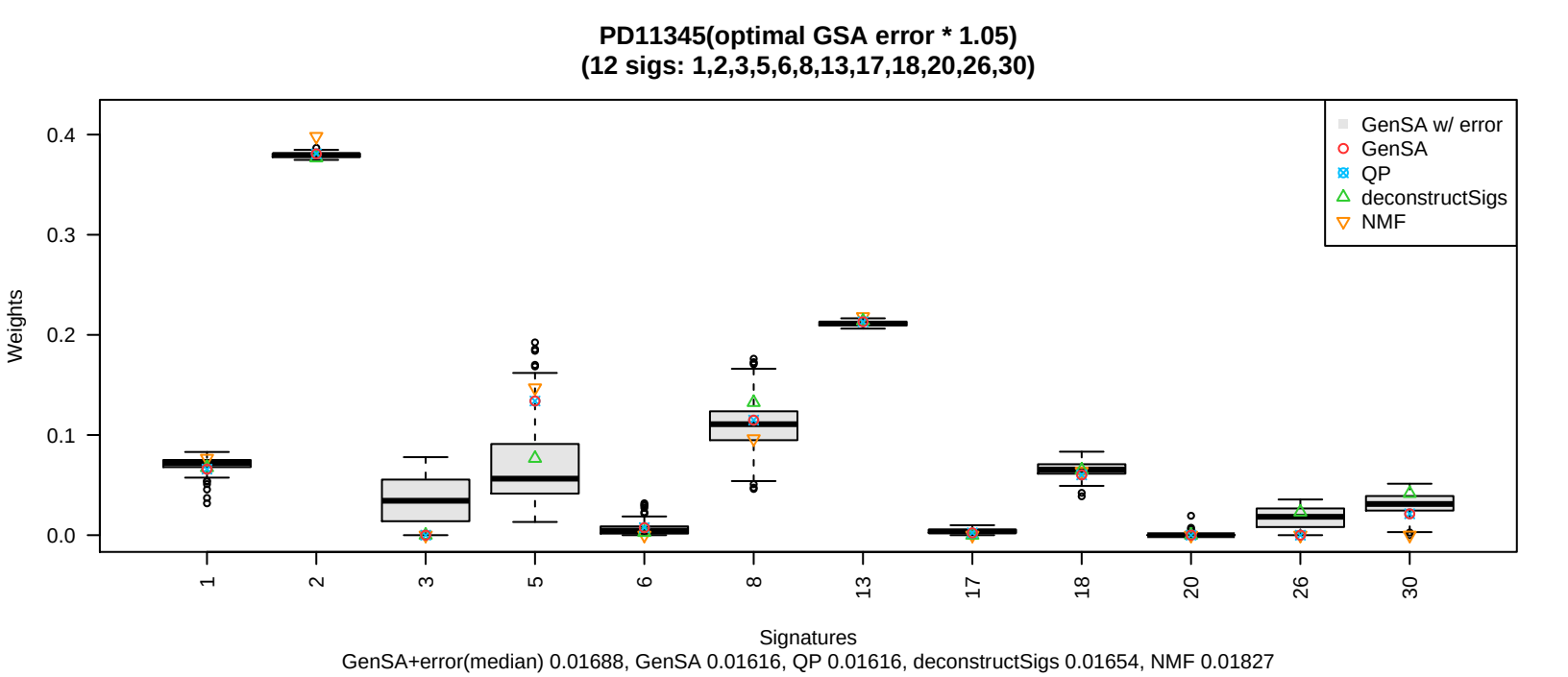


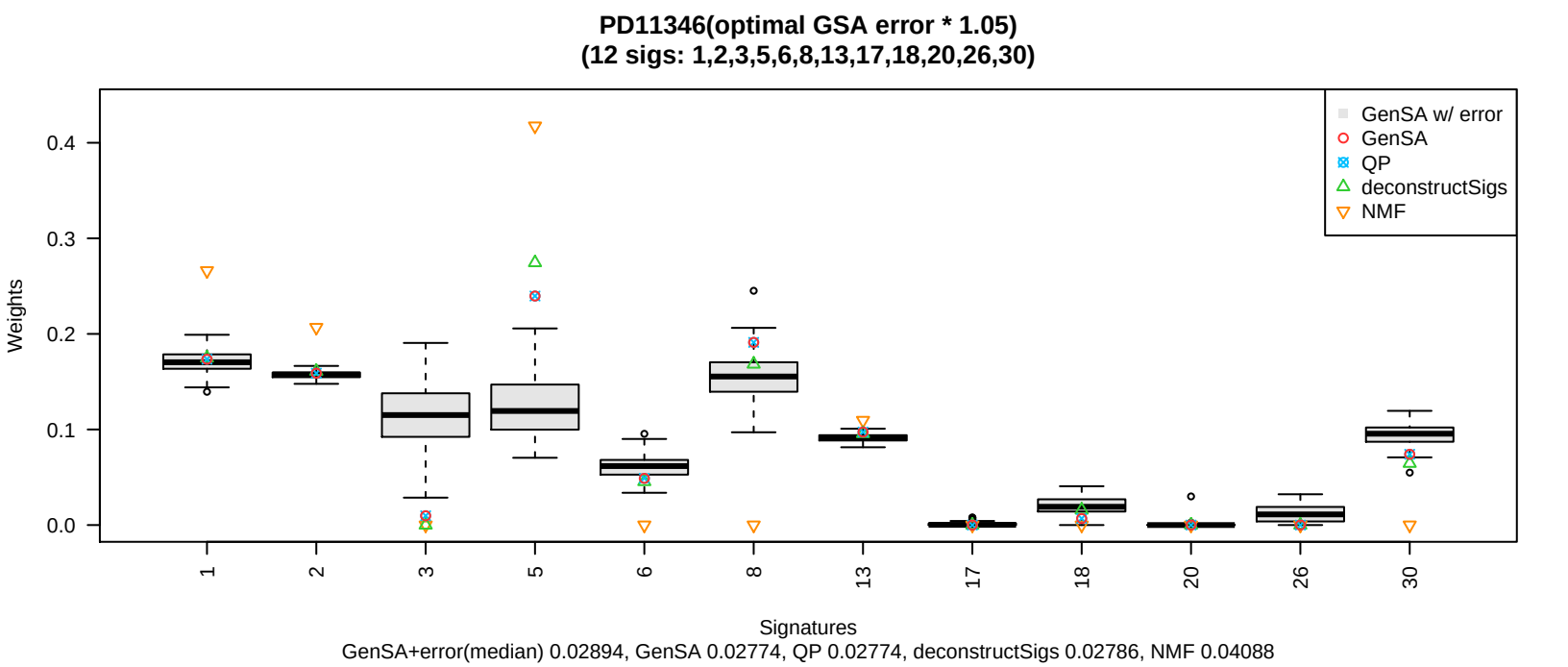
GenSA+error(median) 0.03123, GenSA 0.02991, QP 0.02991, deconstructSigs 0.02998, NMF 0.03423

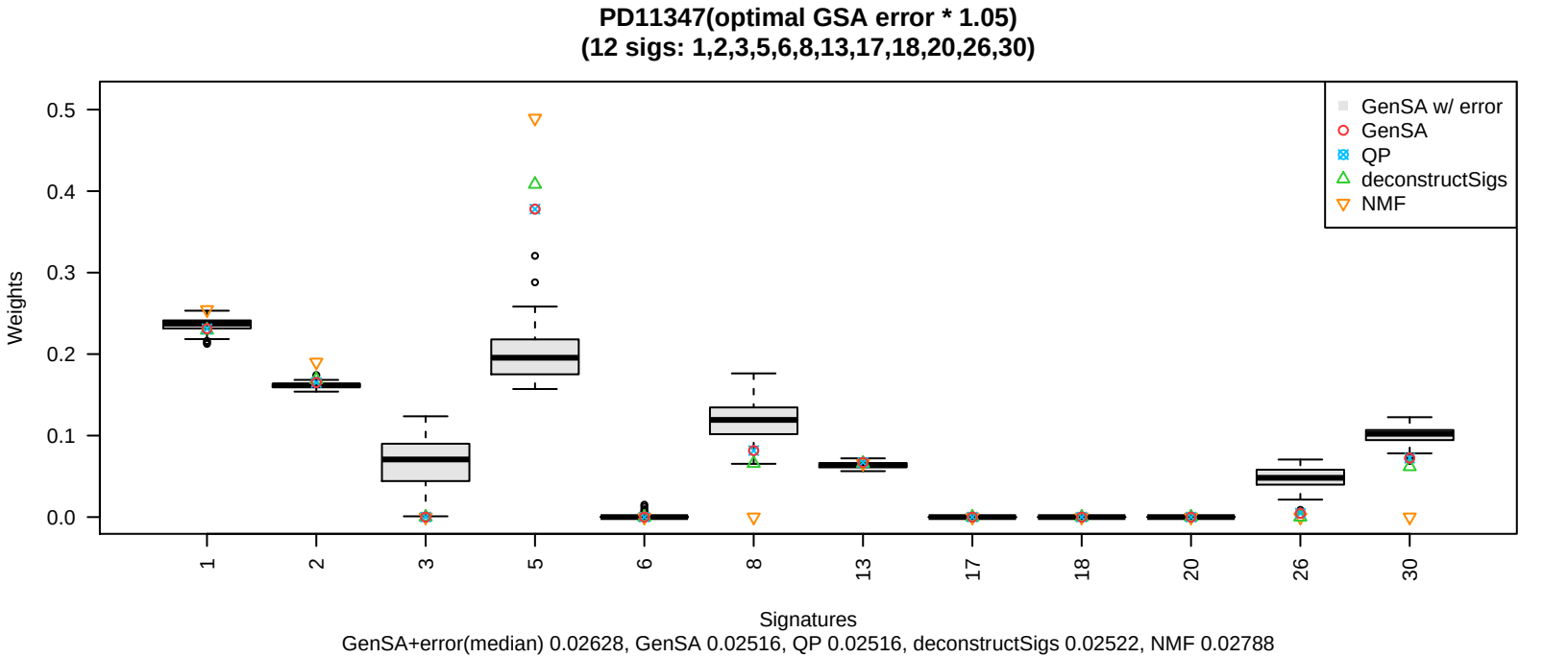

PD11342(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01946, GenSA 0.01862, QP 0.01862, deconstructSigs 0.01872, NMF 0.02336

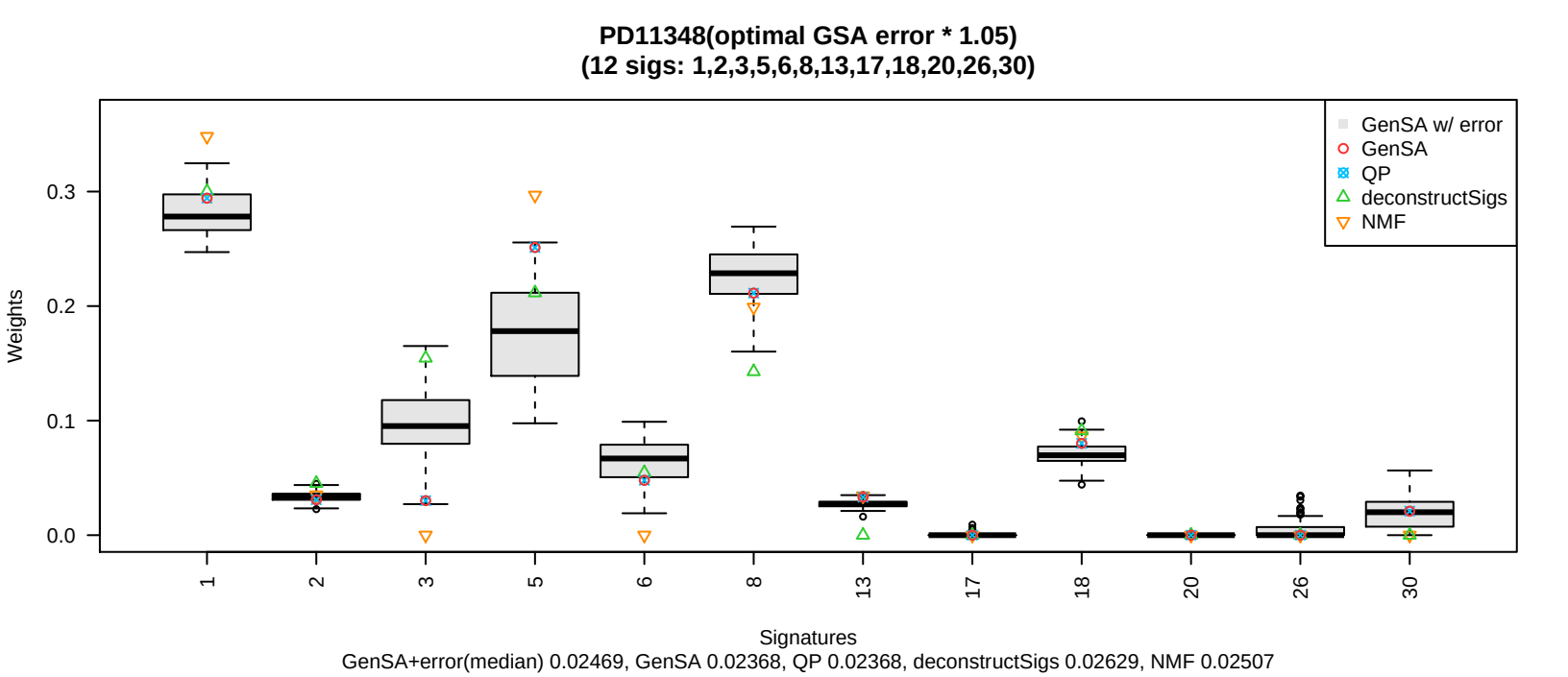

PD11343(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02347, GenSA 0.02253, QP 0.02253, deconstructSigs 0.02259, NMF 0.02488


PD11344(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01257, GenSA 0.01208, QP 0.01208, deconstructSigs 0.01226, NMF 0.02315

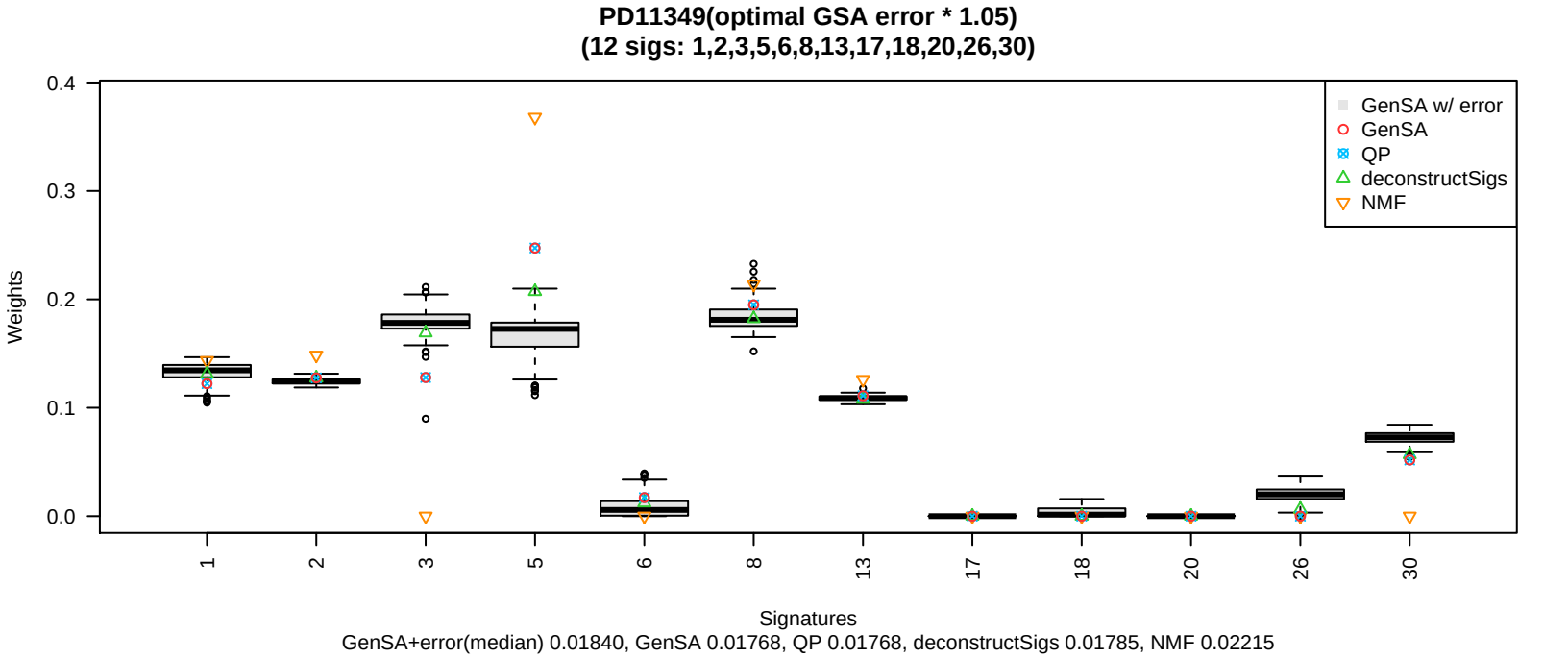

PD11345(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01688, GenSA 0.01616, QP 0.01616, deconstructSigs 0.01654, NMF 0.01827


PD11346(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02894, GenSA 0.02774, QP 0.02774, deconstructSigs 0.02786, NMF 0.04088

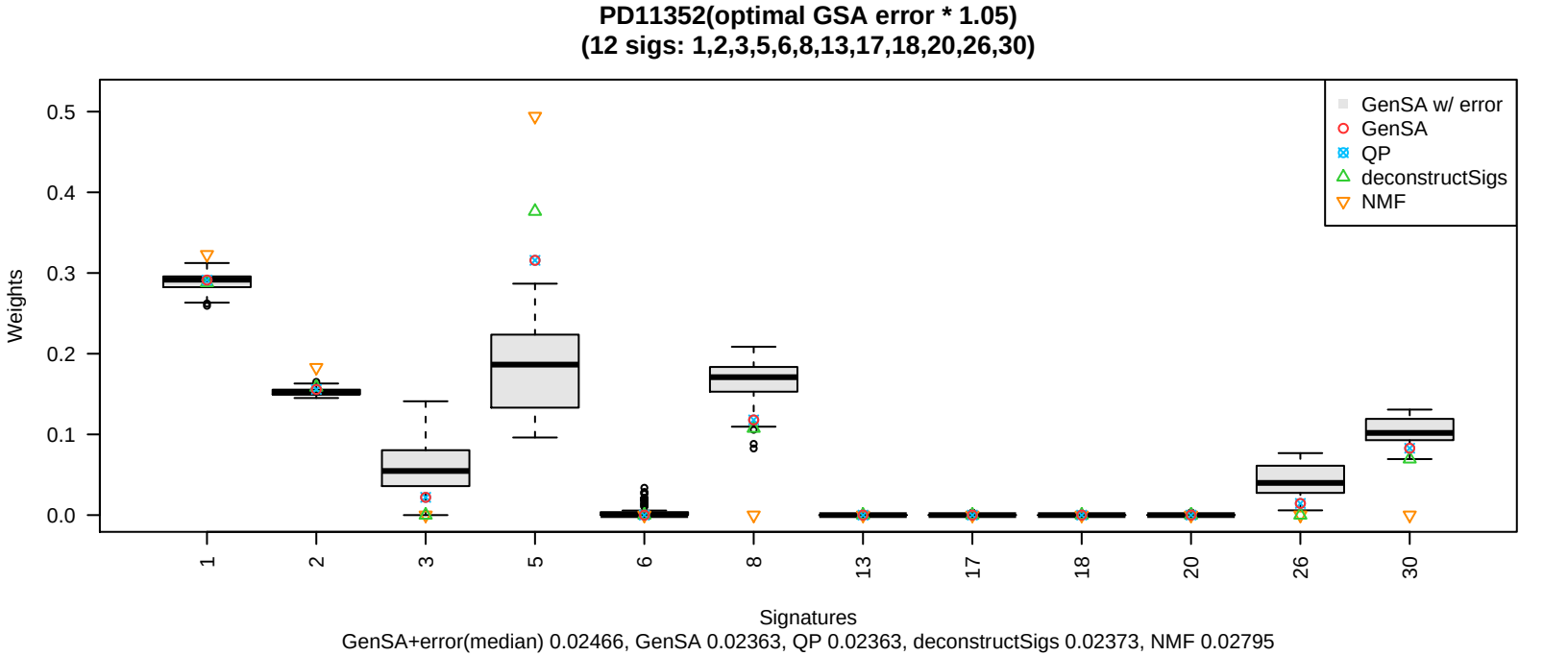

PD11347(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02628, GenSA 0.02516, QP 0.02516, deconstructSigs 0.02522, NMF 0.02788



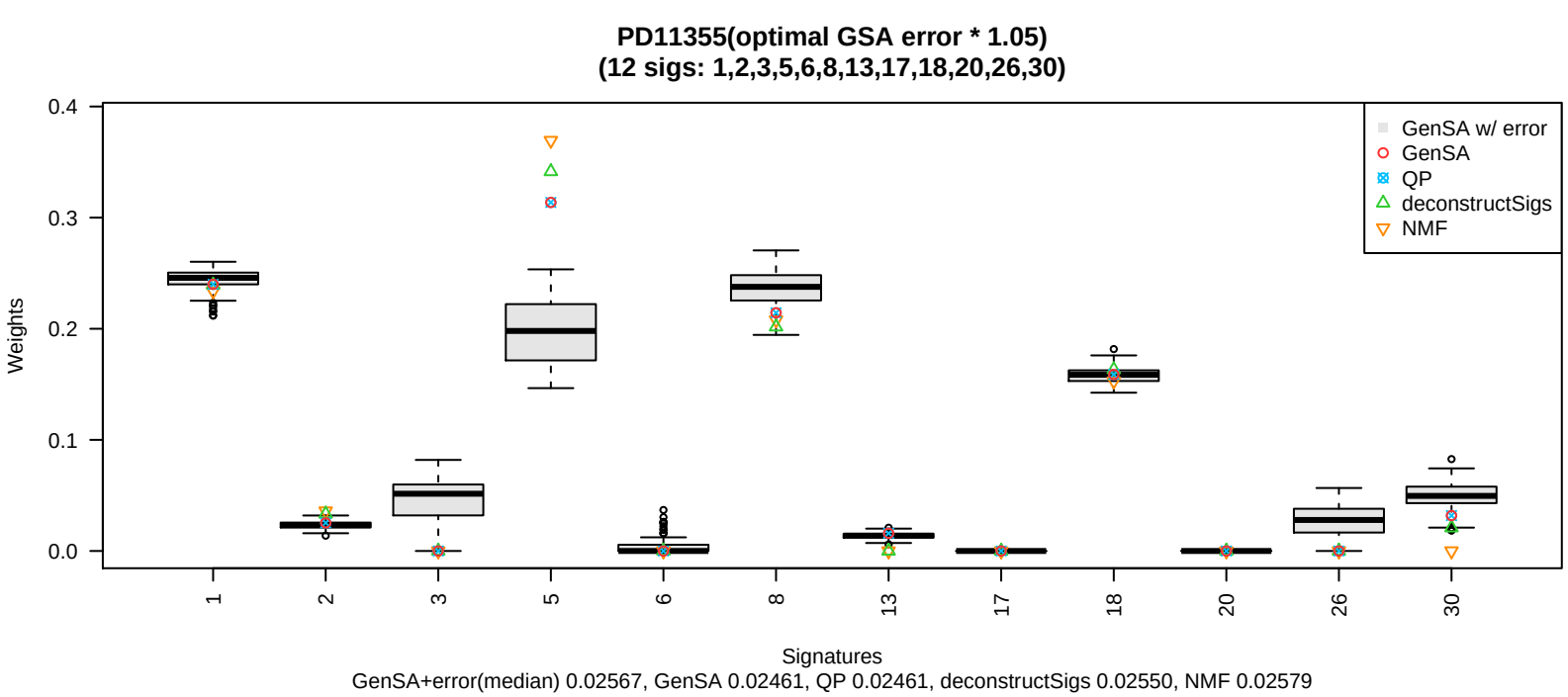
GenSA+error(median) 0.02469, GenSA 0.02368, QP 0.02368, deconstructSigs 0.02629, NMF 0.02507

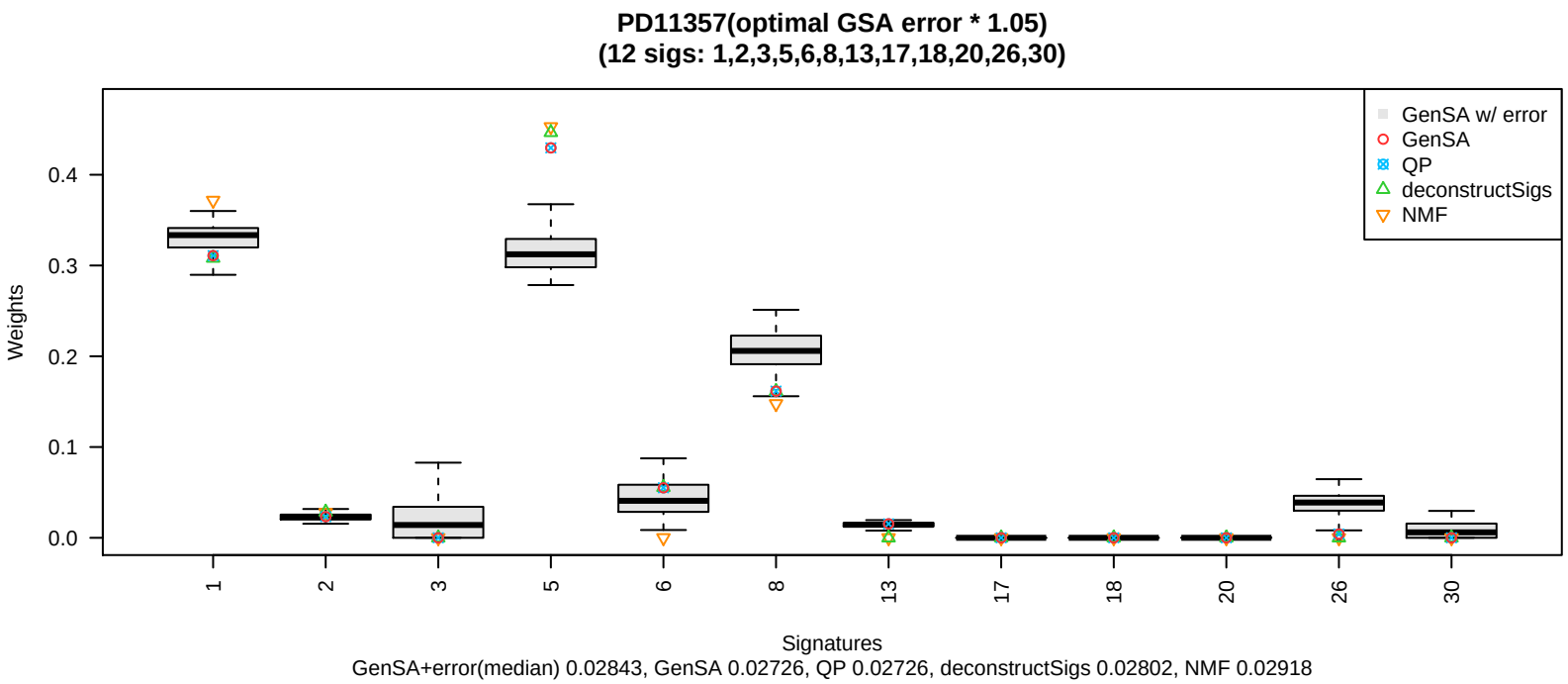


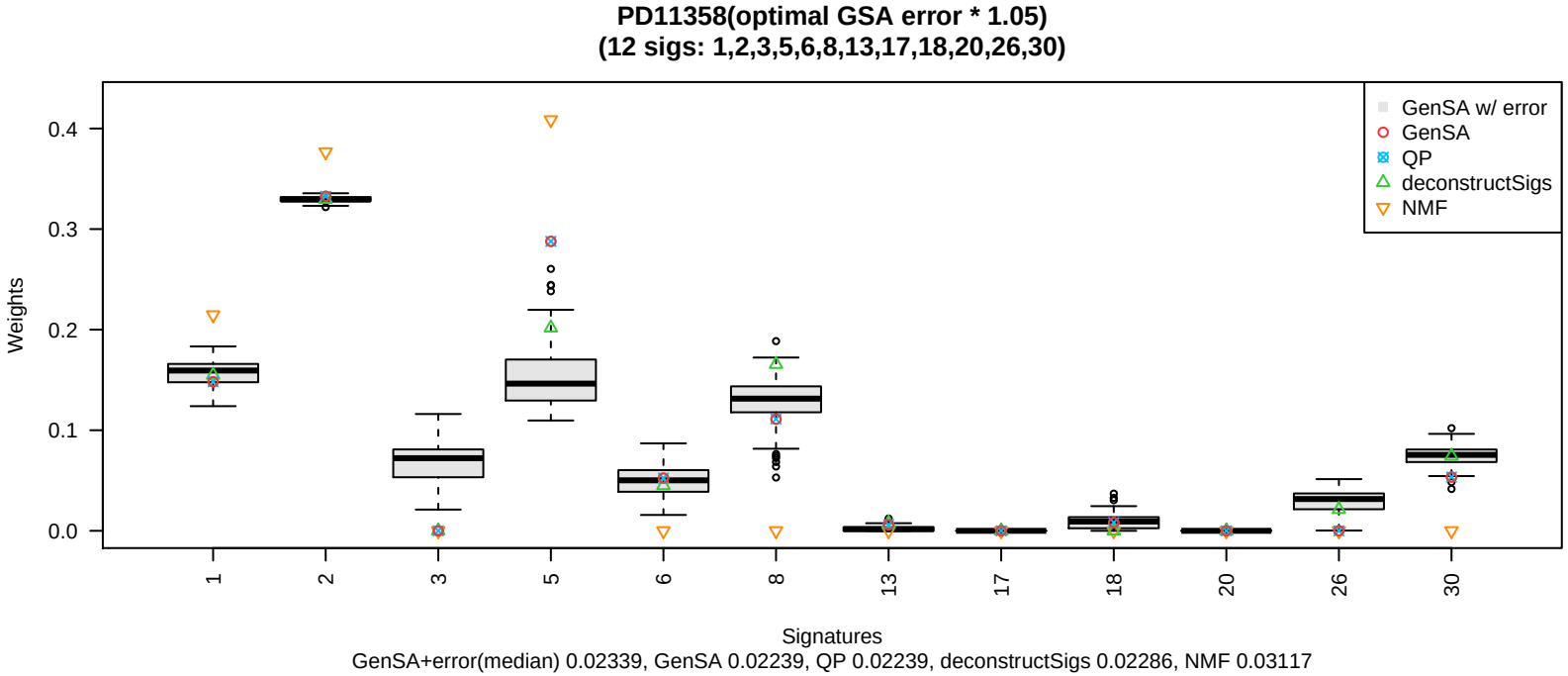
GenSA+error(median) 0.01840, GenSA 0.01768, QP 0.01768, deconstructSigs 0.01785, NMF 0.02215

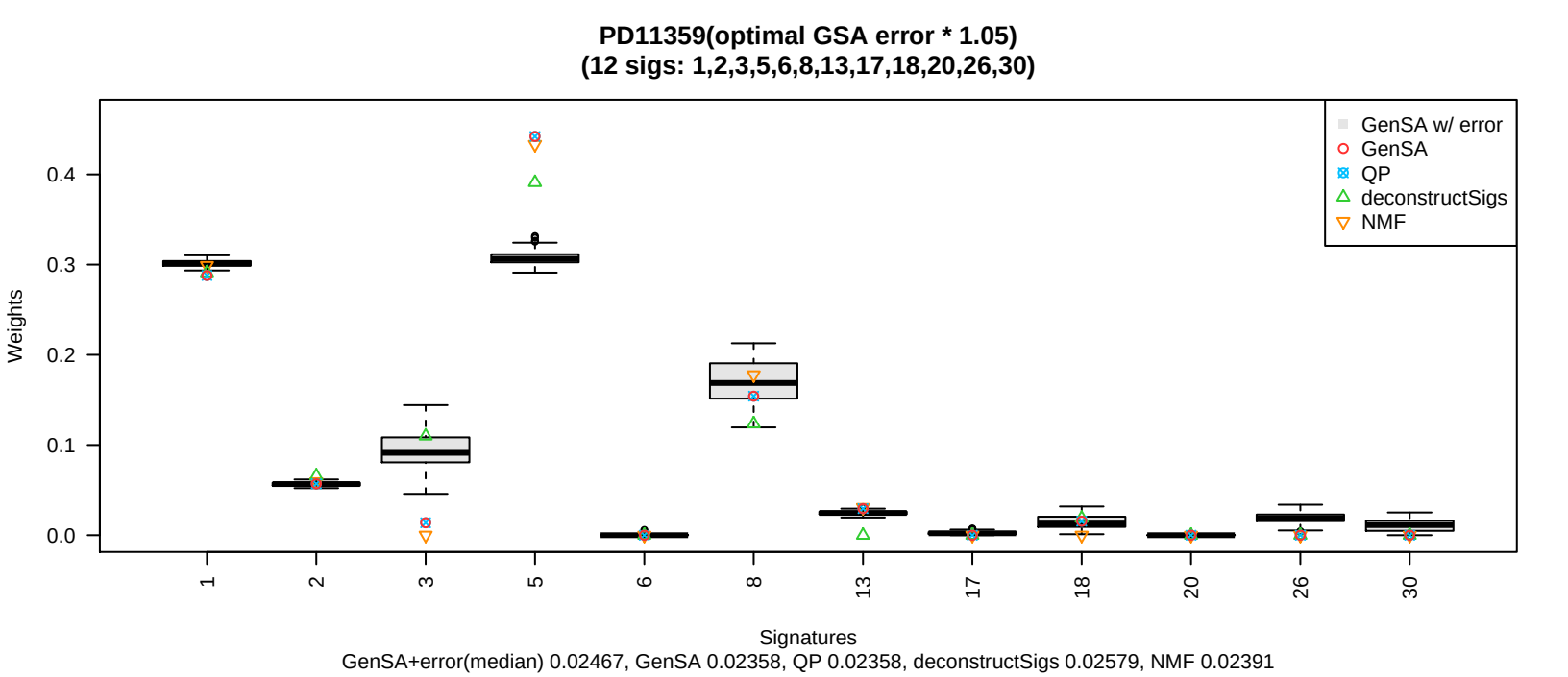


GenSA+error(median) 0.02466, GenSA 0.02363, QP 0.02363, deconstructSigs 0.02373, NMF 0.02795

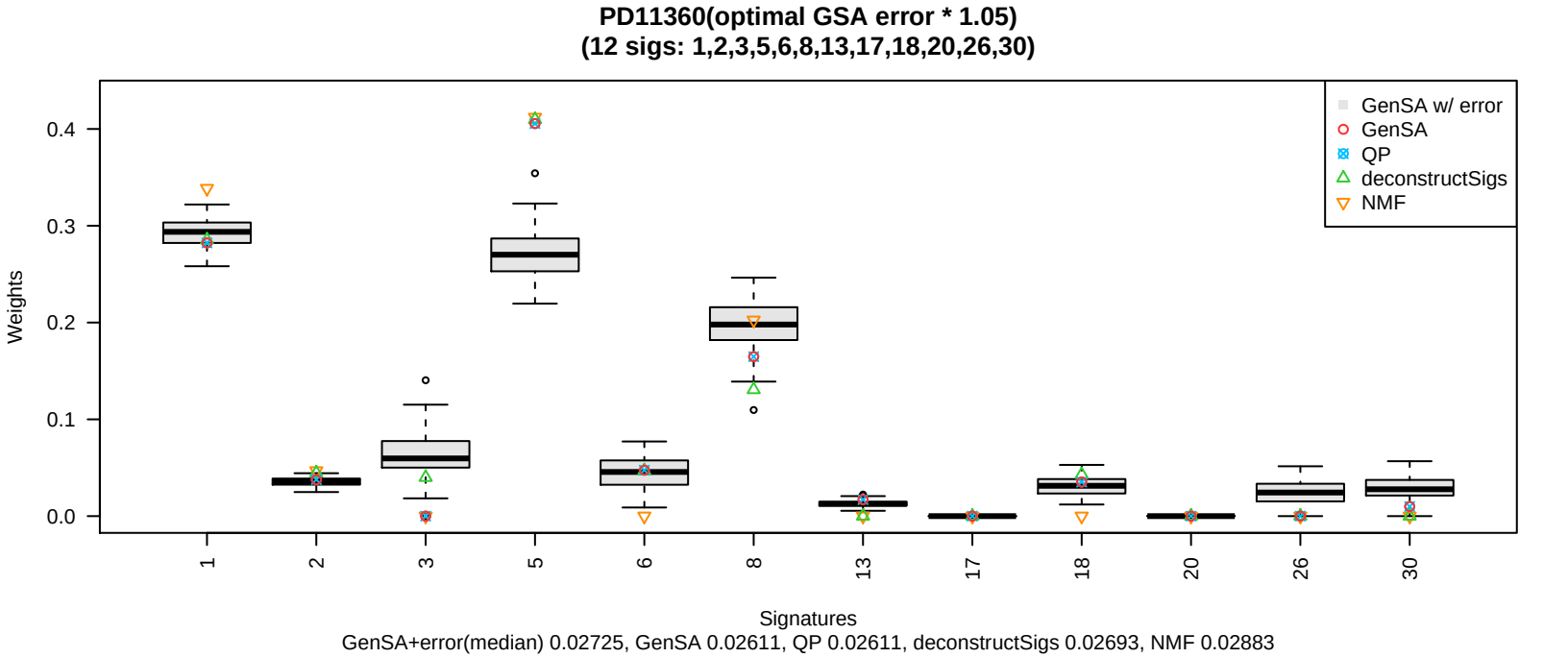

PD11355(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02567, GenSA 0.02461, QP 0.02461, deconstructSigs 0.02550, NMF 0.02579


PD11357(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02843, GenSA 0.02726, QP 0.02726, deconstructSigs 0.02802, NMF 0.02918

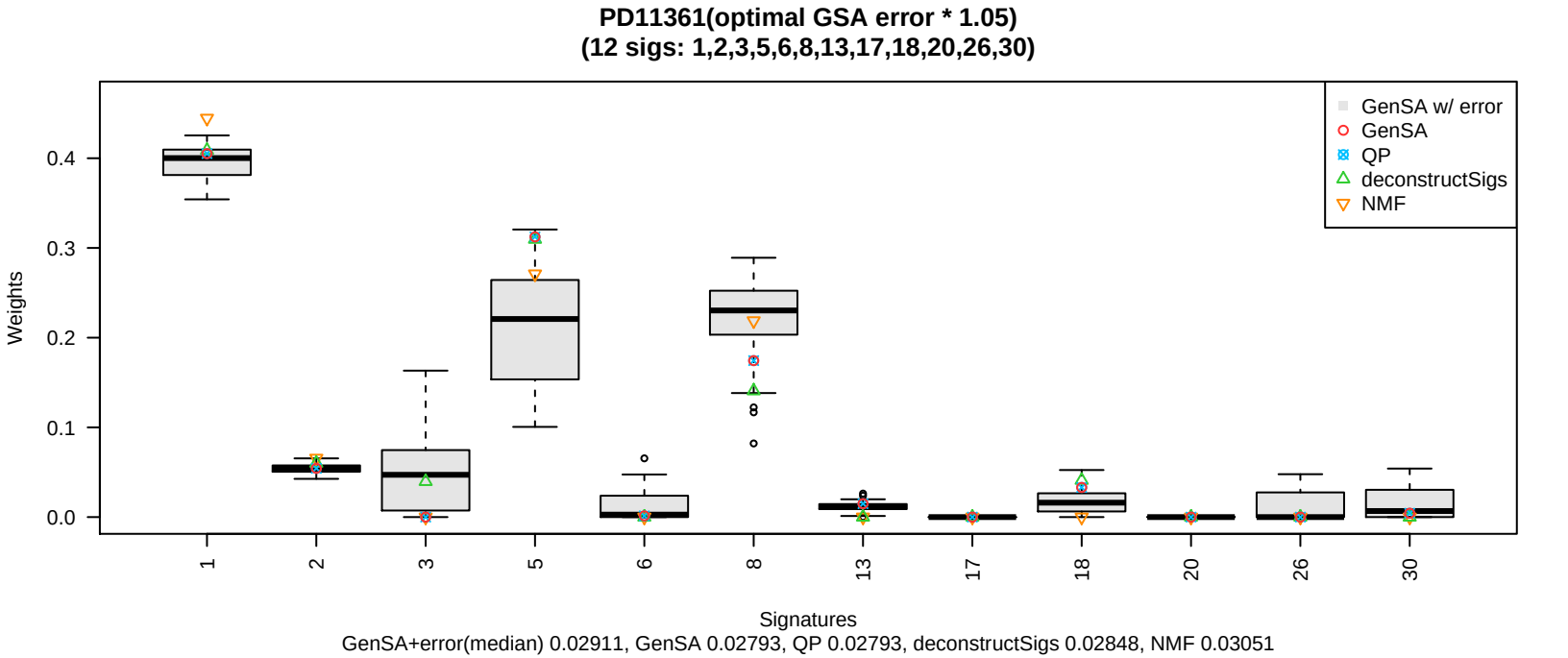

PD11358(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02339, GenSA 0.02239, QP 0.02239, deconstructSigs 0.02286, NMF 0.03117



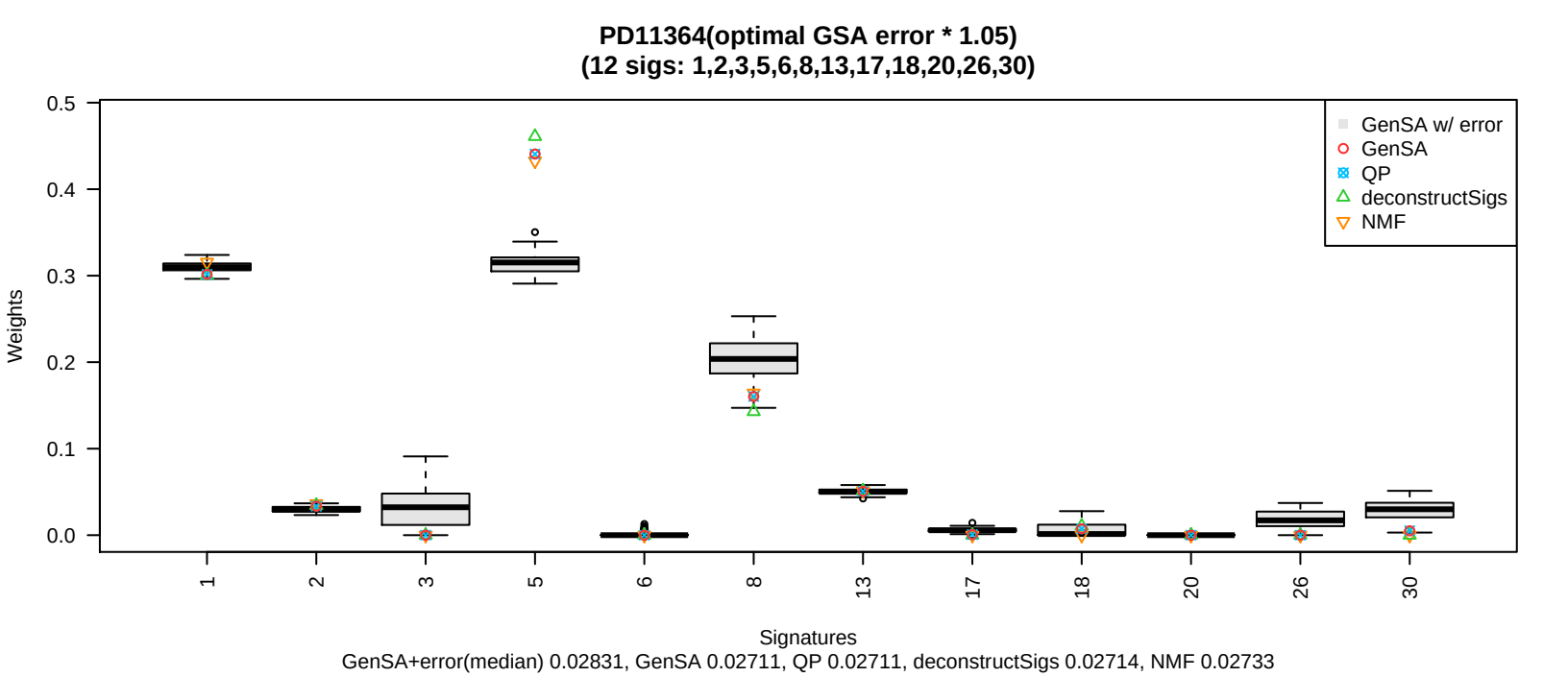
GenSA+error(median) 0.02467, GenSA 0.02358, QP 0.02358, deconstructSigs 0.02579, NMF 0.02391



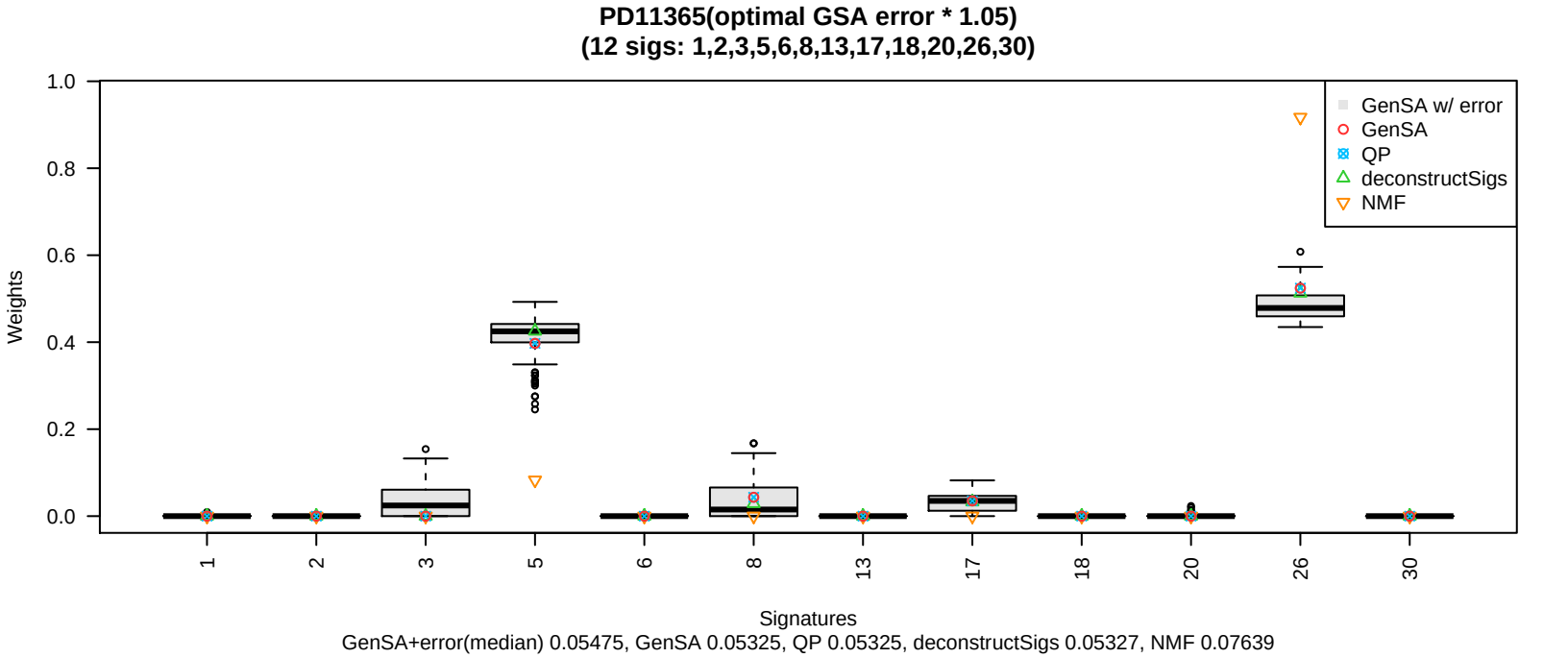
GenSA+error(median) 0.02725, GenSA 0.02611, QP 0.02611, deconstructSigs 0.02693, NMF 0.02883



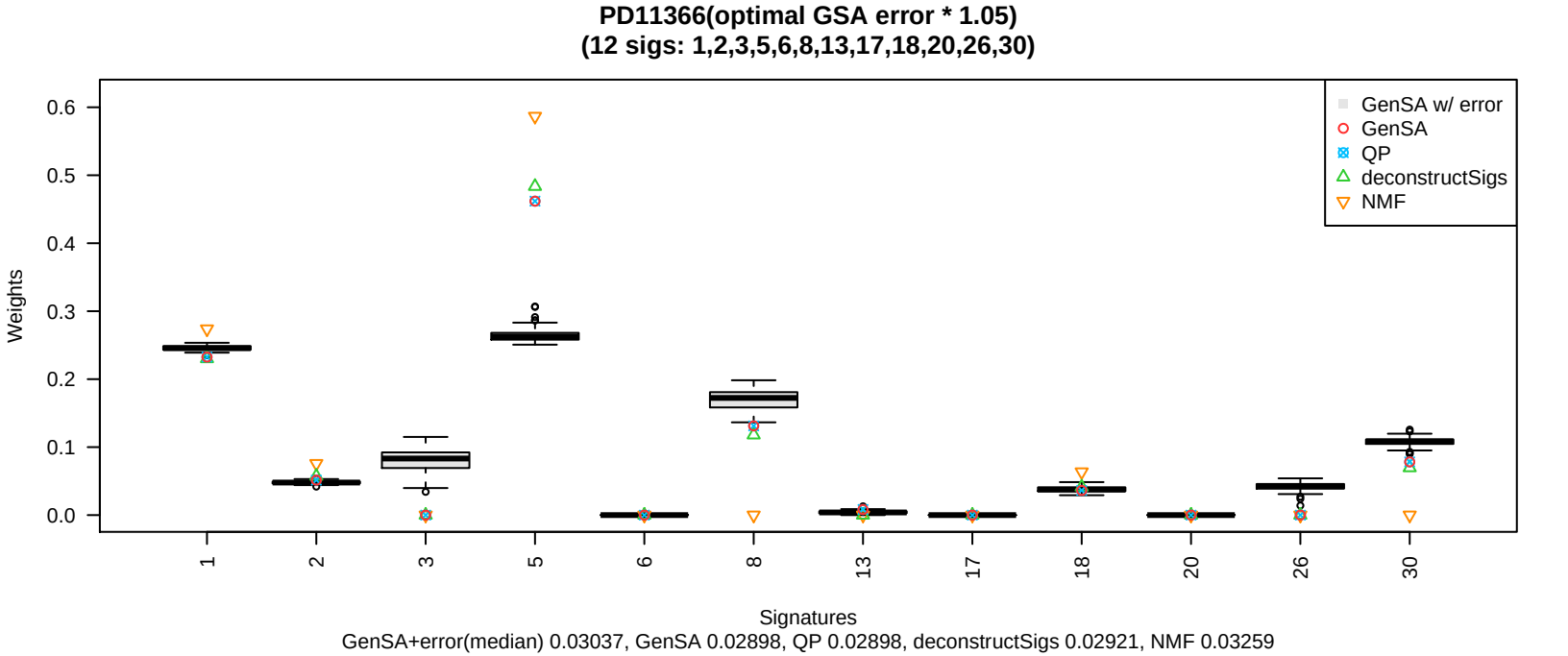
GenSA+error(median) 0.02911, GenSA 0.02793, QP 0.02793, deconstructSigs 0.02848, NMF 0.03051



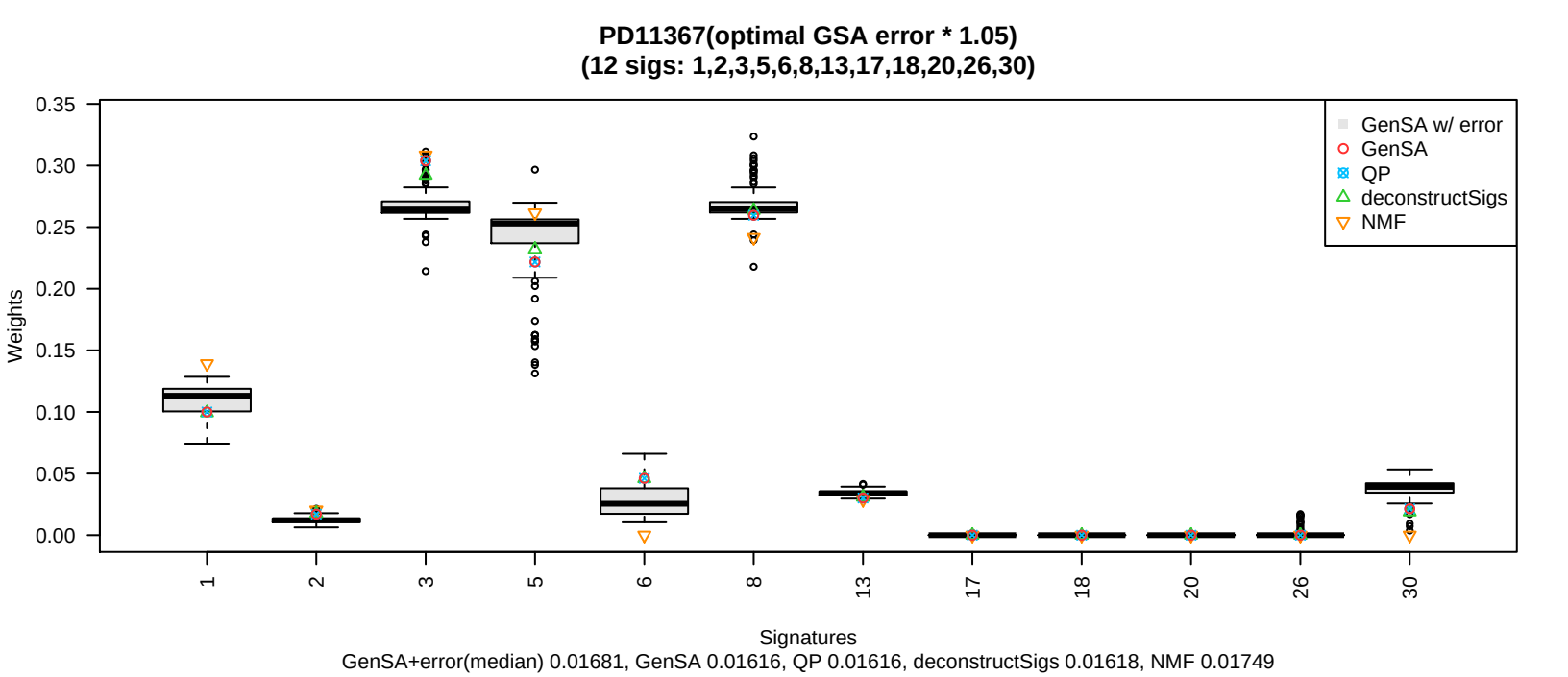
GenSA+error(median) 0.02831, GenSA 0.02711, QP 0.02711, deconstructSigs 0.02714, NMF 0.02733



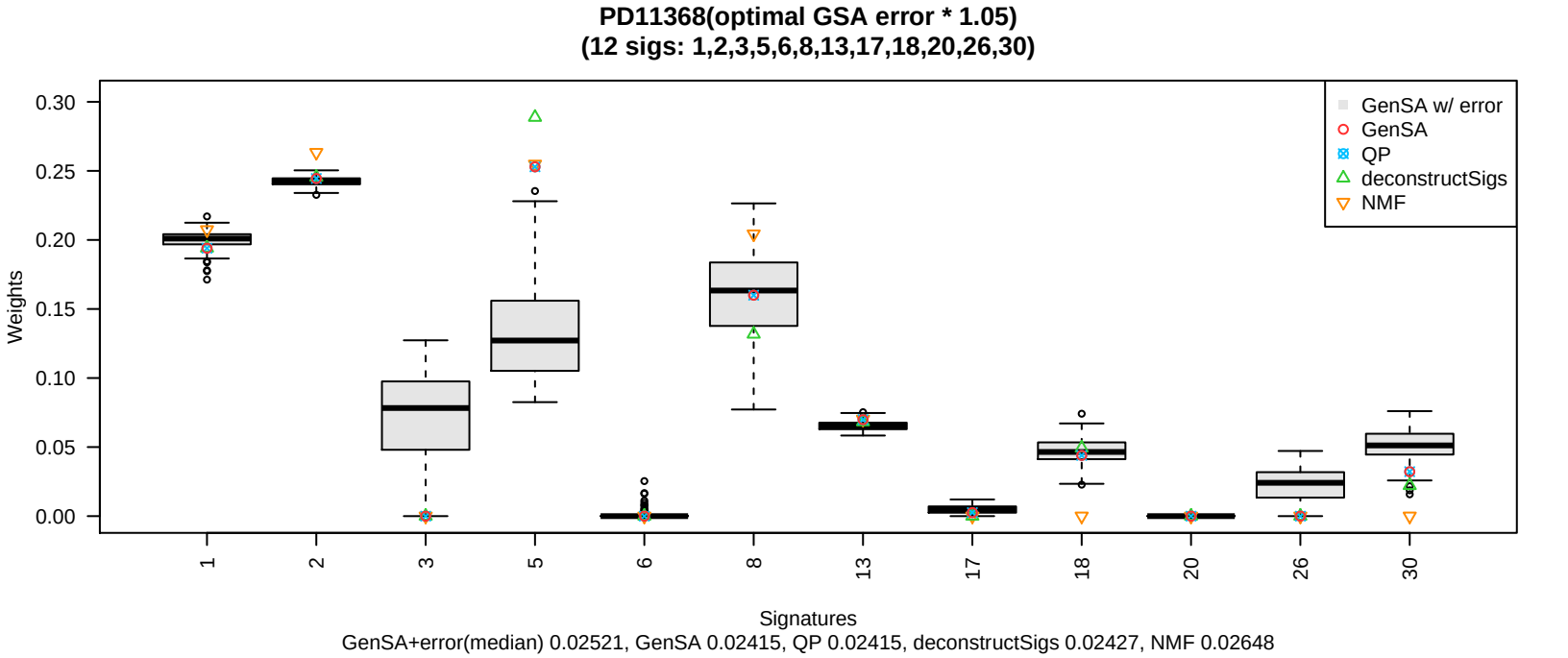
GenSA+error(median) 0.05475, GenSA 0.05325, QP 0.05325, deconstructSigs 0.05327, NMF 0.07639



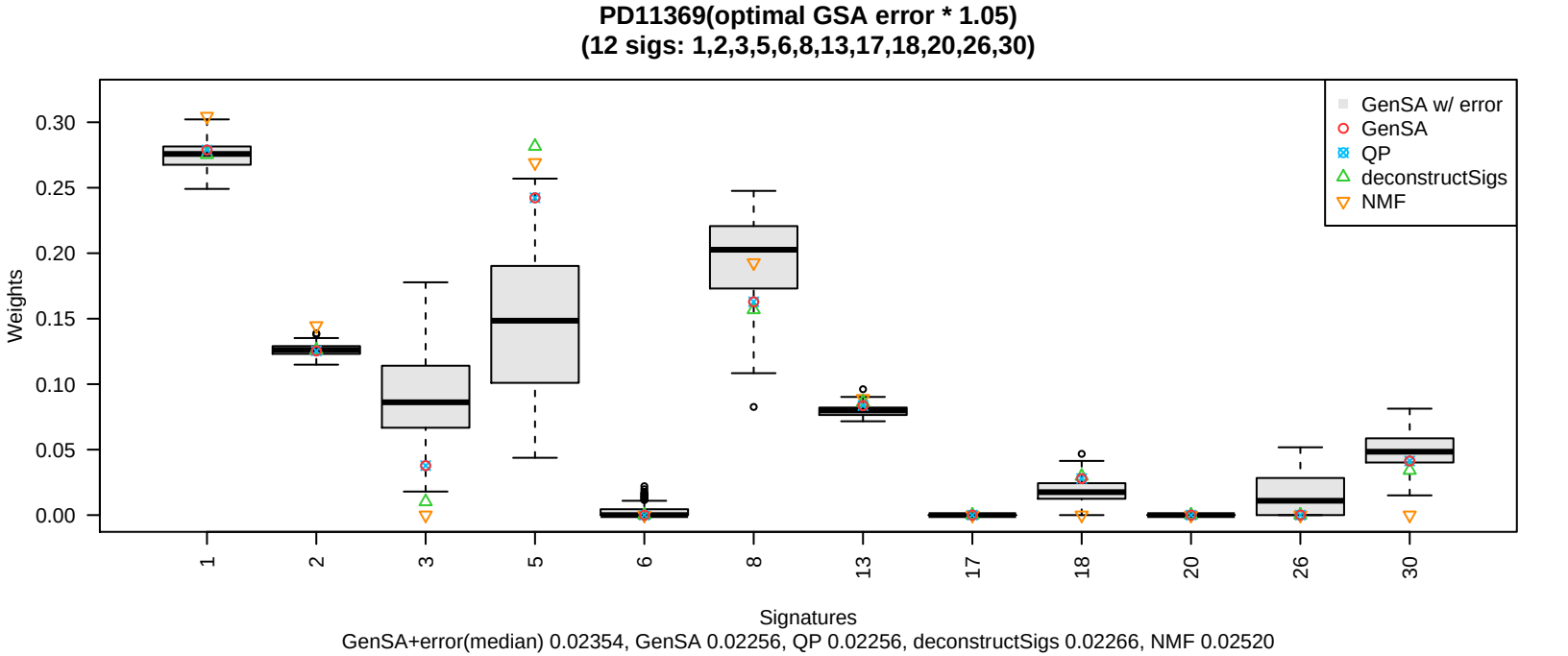
GenSA+error(median) 0.03037, GenSA 0.02898, QP 0.02898, deconstructSigs 0.02921, NMF 0.03259



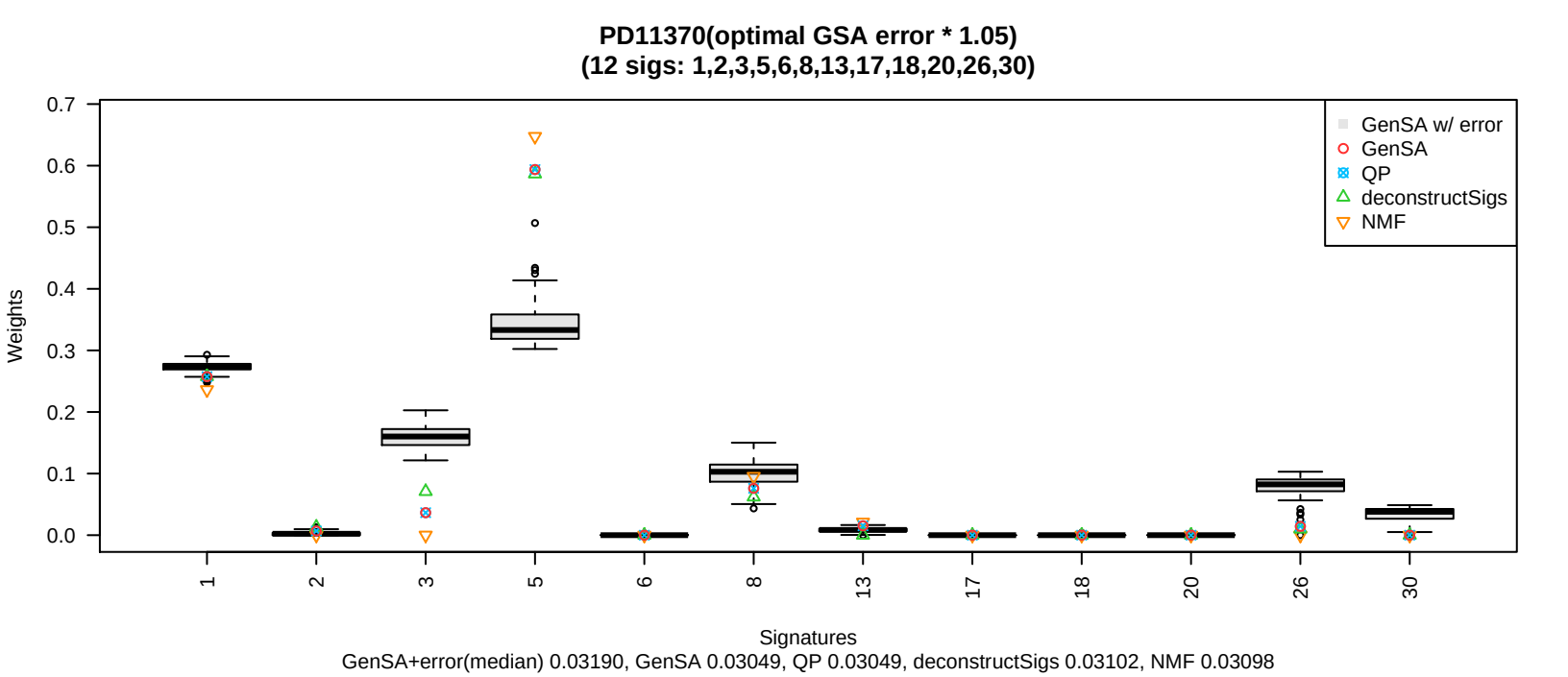
GenSA+error(median) 0.01681, GenSA 0.01616, QP 0.01616, deconstructSigs 0.01618, NMF 0.01749



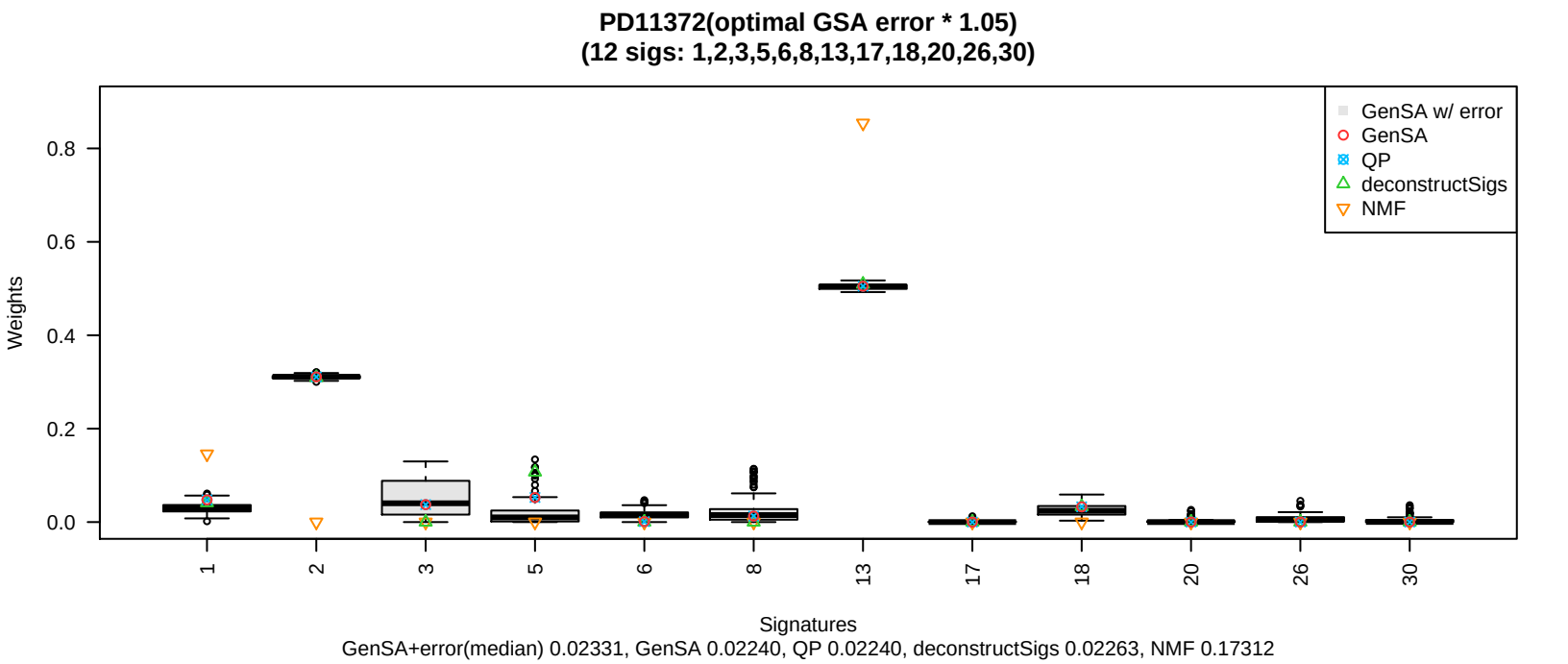
GenSA+error(median) 0.02521, GenSA 0.02415, QP 0.02415, deconstructSigs 0.02427, NMF 0.02648



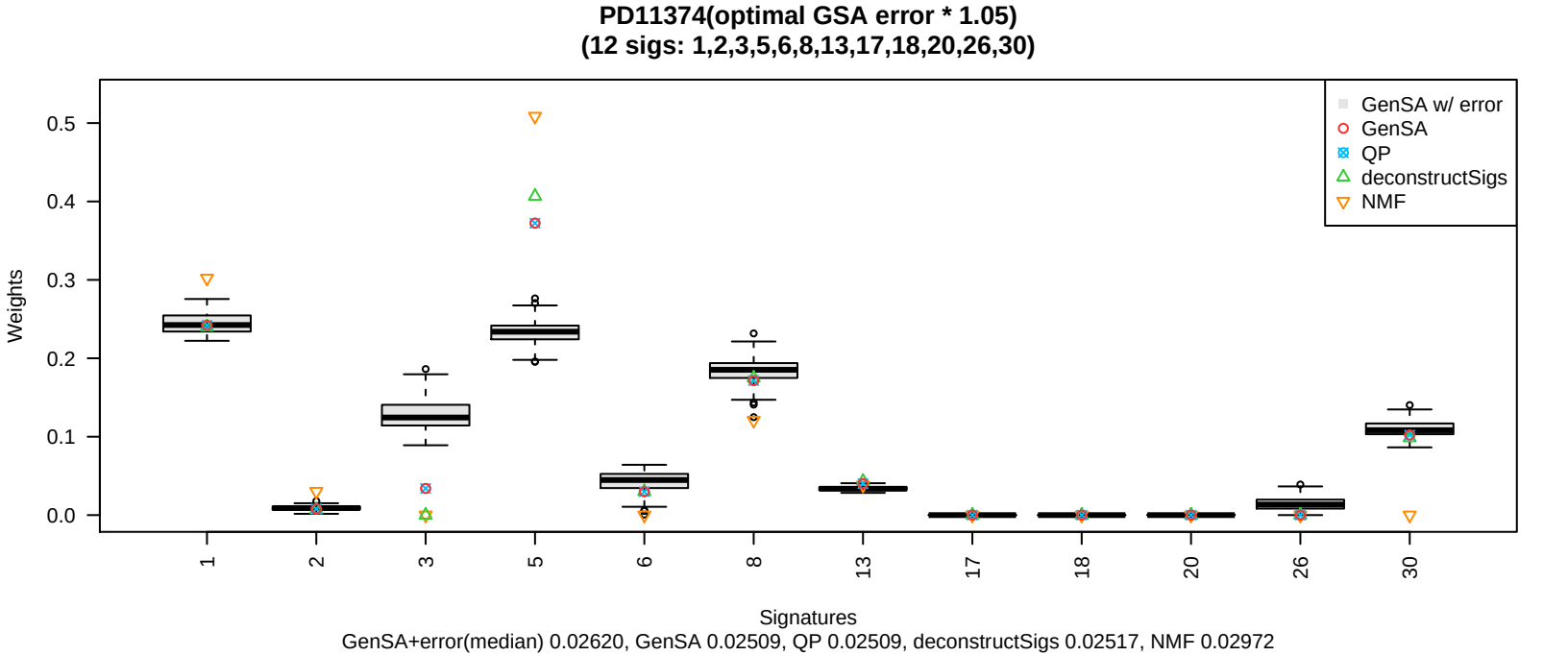
GenSA+error(median) 0.02354, GenSA 0.02256, QP 0.02256, deconstructSigs 0.02266, NMF 0.02520



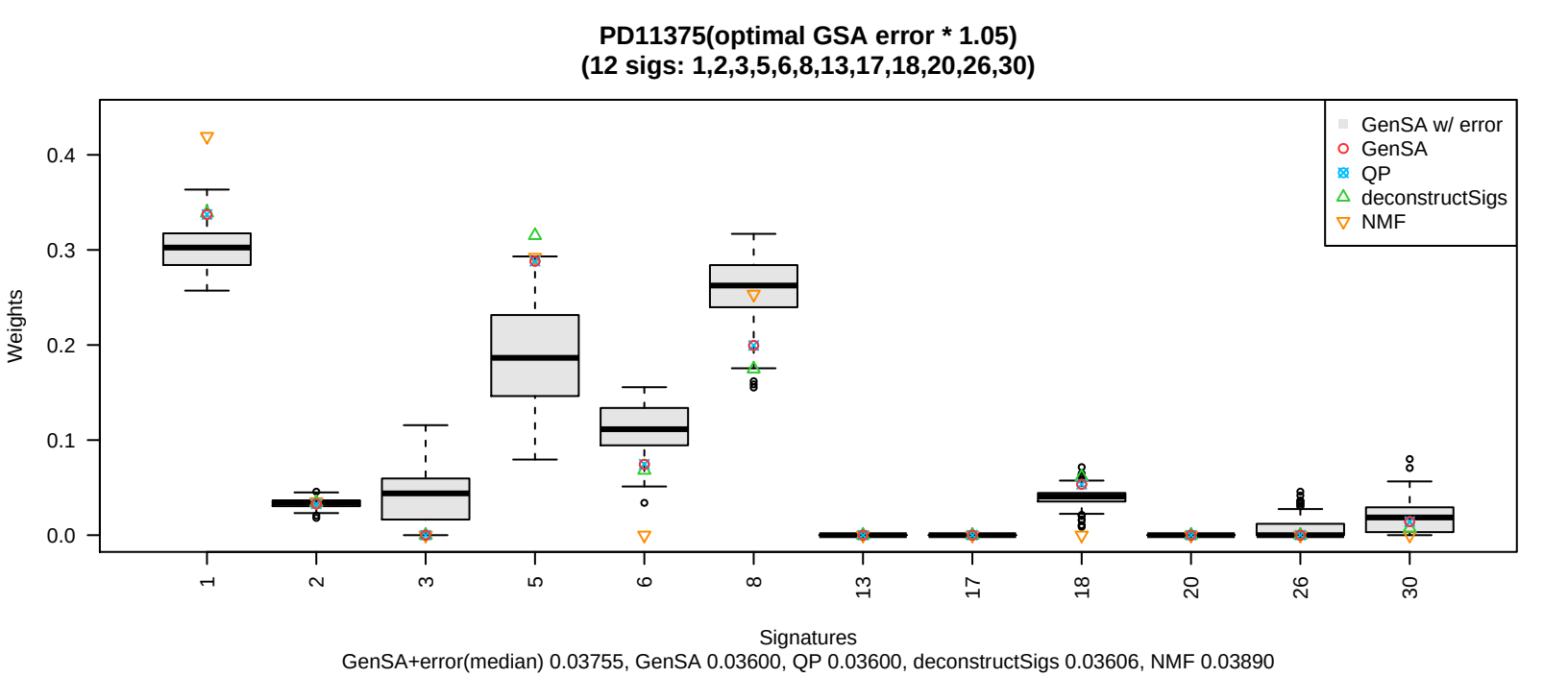
GenSA+error(median) 0.03190, GenSA 0.03049, QP 0.03049, deconstructSigs 0.03102, NMF 0.03098



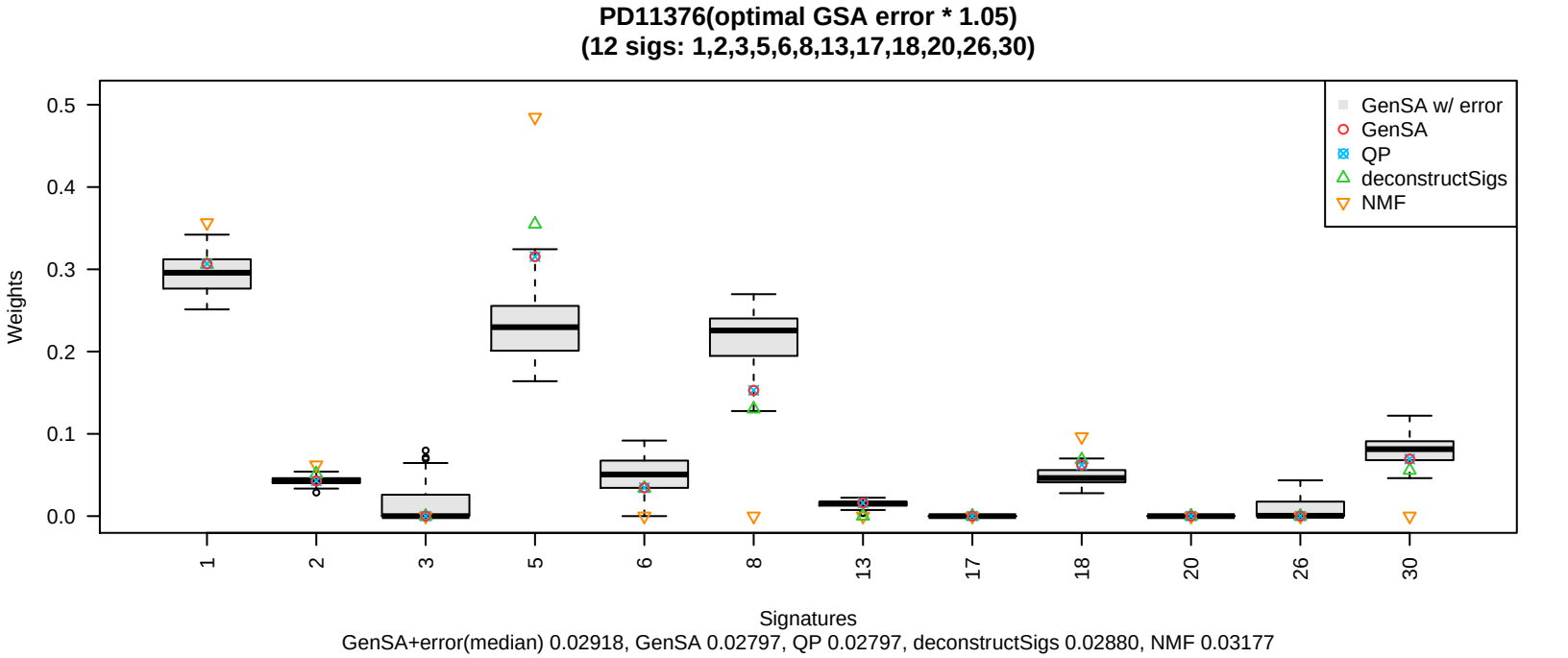
GenSA+error(median) 0.02331, GenSA 0.02240, QP 0.02240, deconstructSigs 0.02263, NMF 0.17312



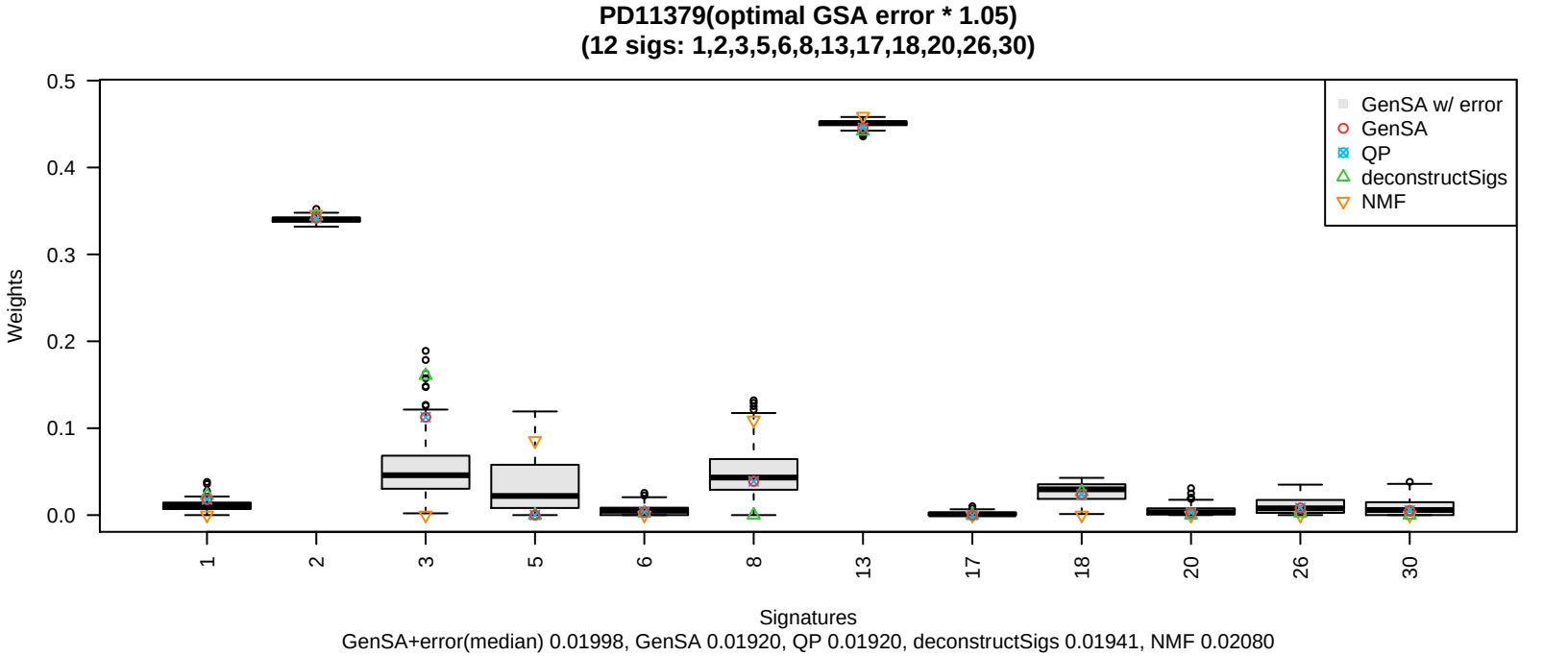
GenSA+error(median) 0.02620, GenSA 0.02509, QP 0.02509, deconstructSigs 0.02517, NMF 0.02972



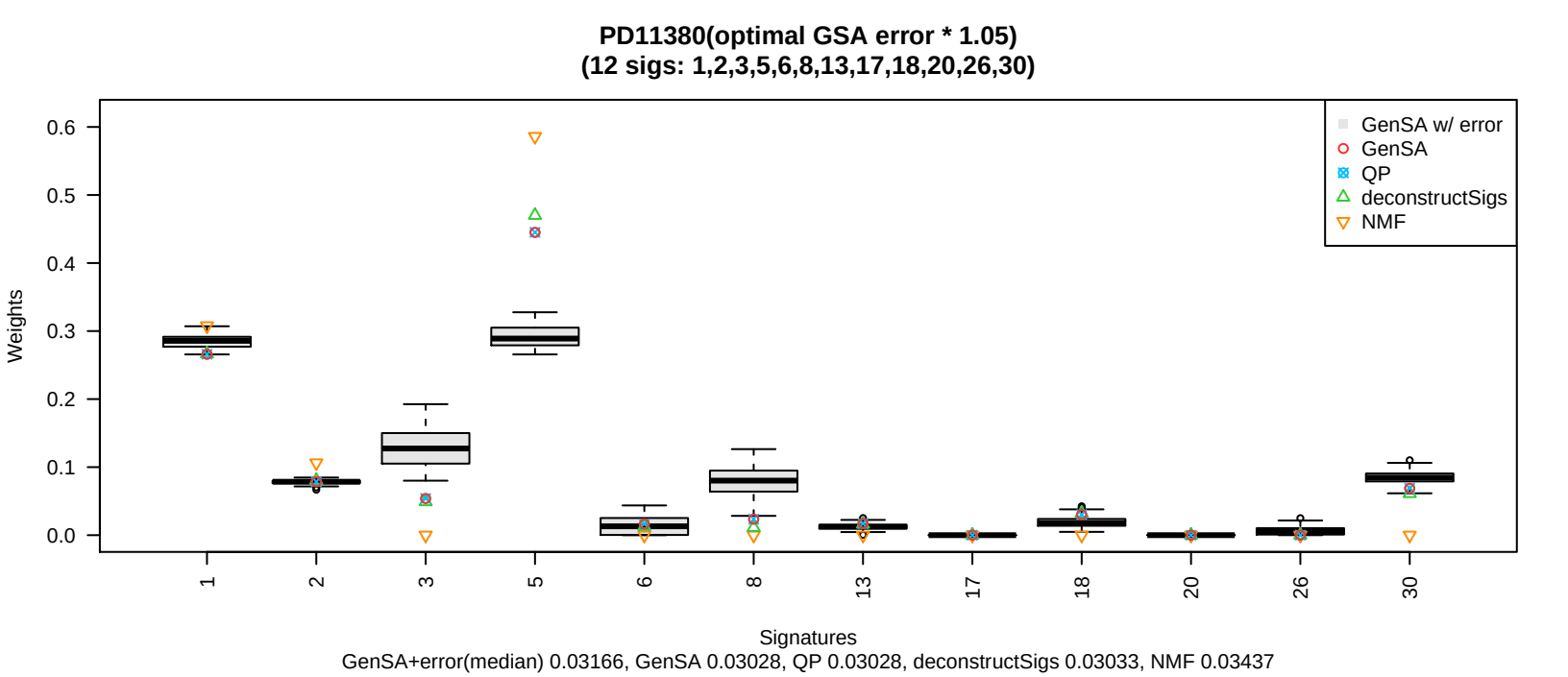
GenSA+error(median) 0.03755, GenSA 0.03600, QP 0.03600, deconstructSigs 0.03606, NMF 0.03890



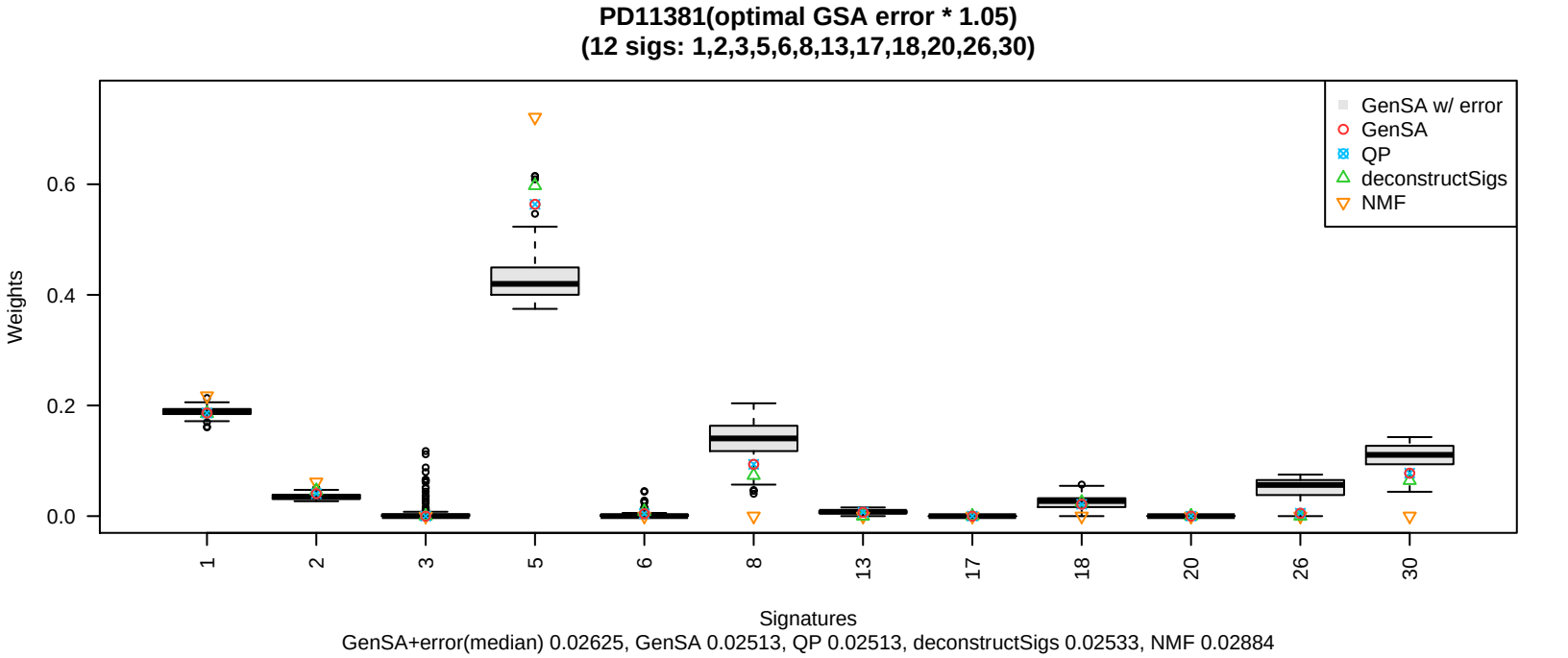
GenSA+error(median) 0.02918, GenSA 0.02797, QP 0.02797, deconstructSigs 0.02880, NMF 0.03177



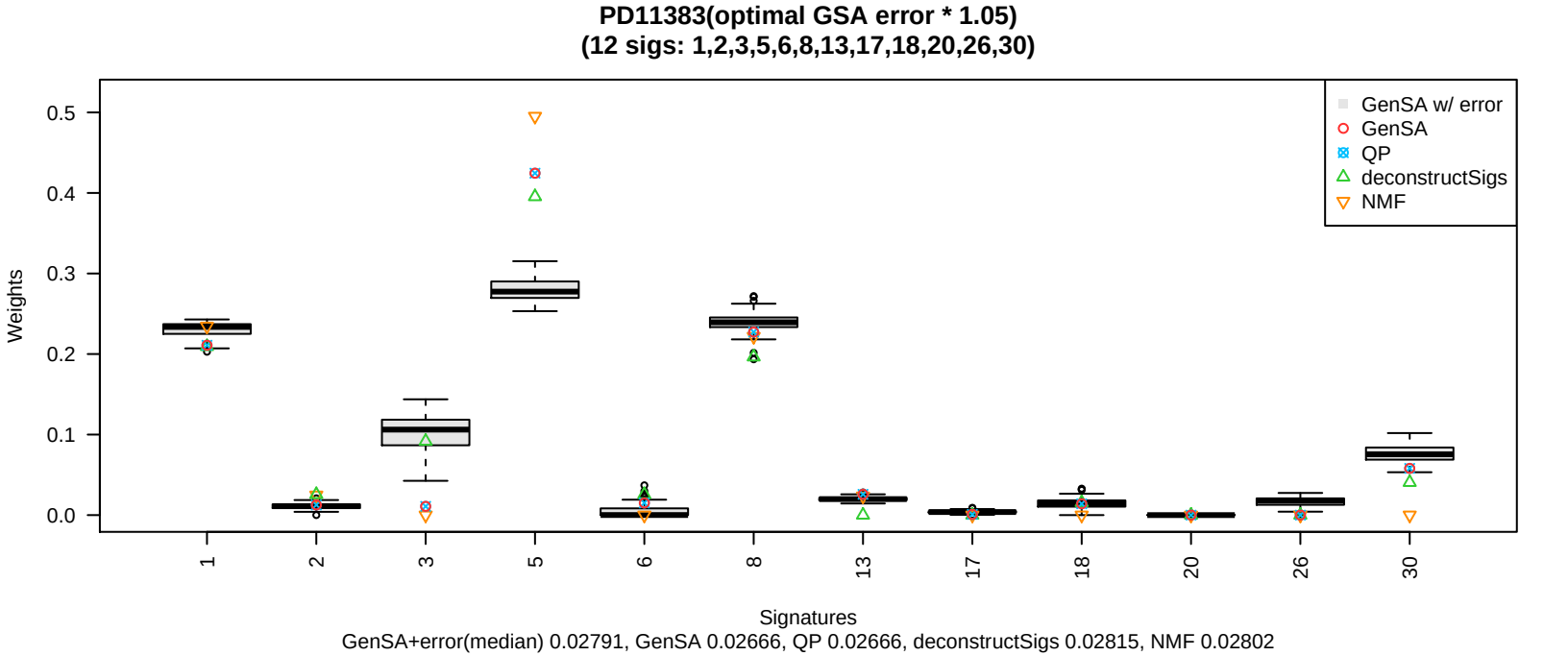
GenSA+error(median) 0.01998, GenSA 0.01920, QP 0.01920, deconstructSigs 0.01941, NMF 0.02080



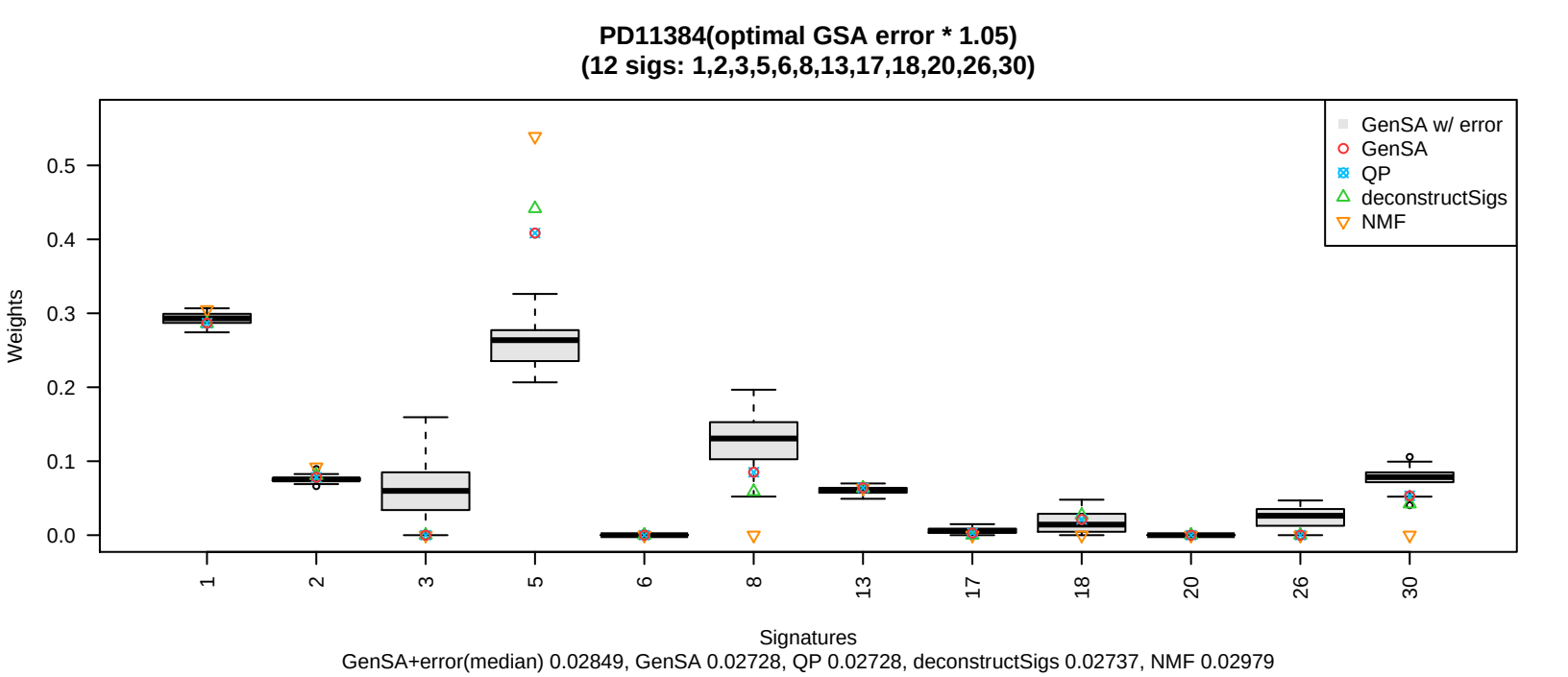
GenSA+error(median) 0.03166, GenSA 0.03028, QP 0.03028, deconstructSigs 0.03033, NMF 0.03437

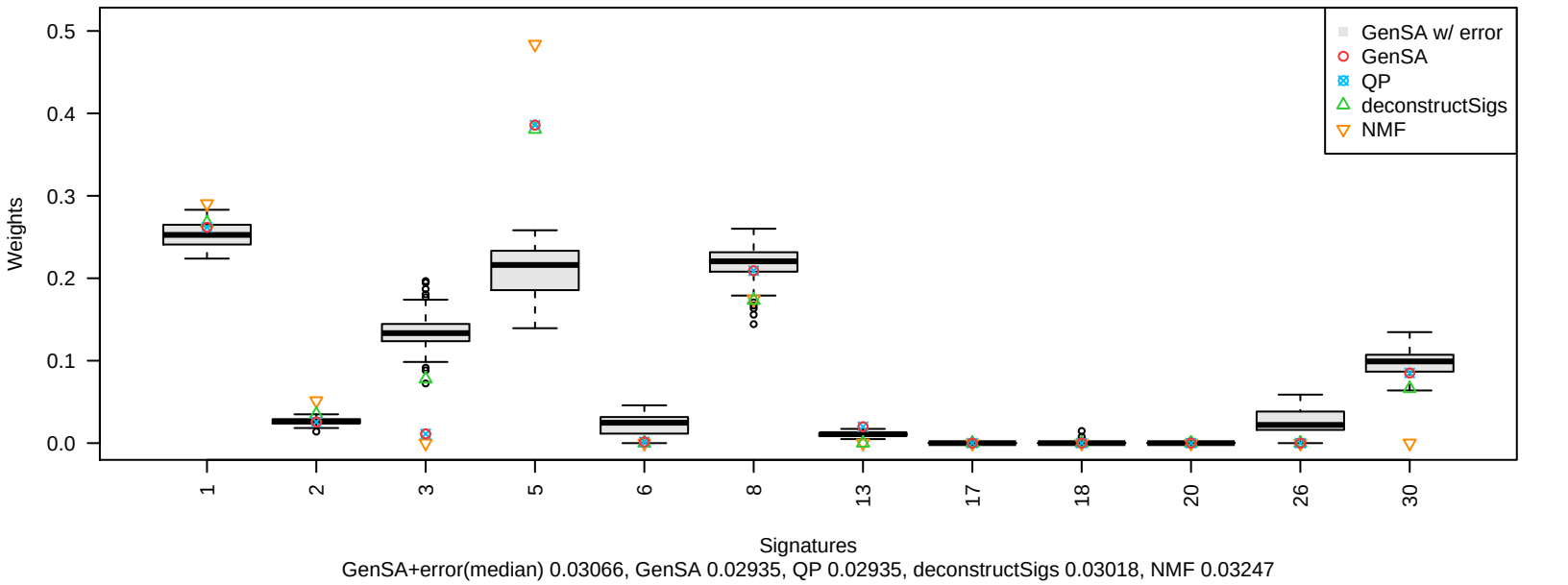


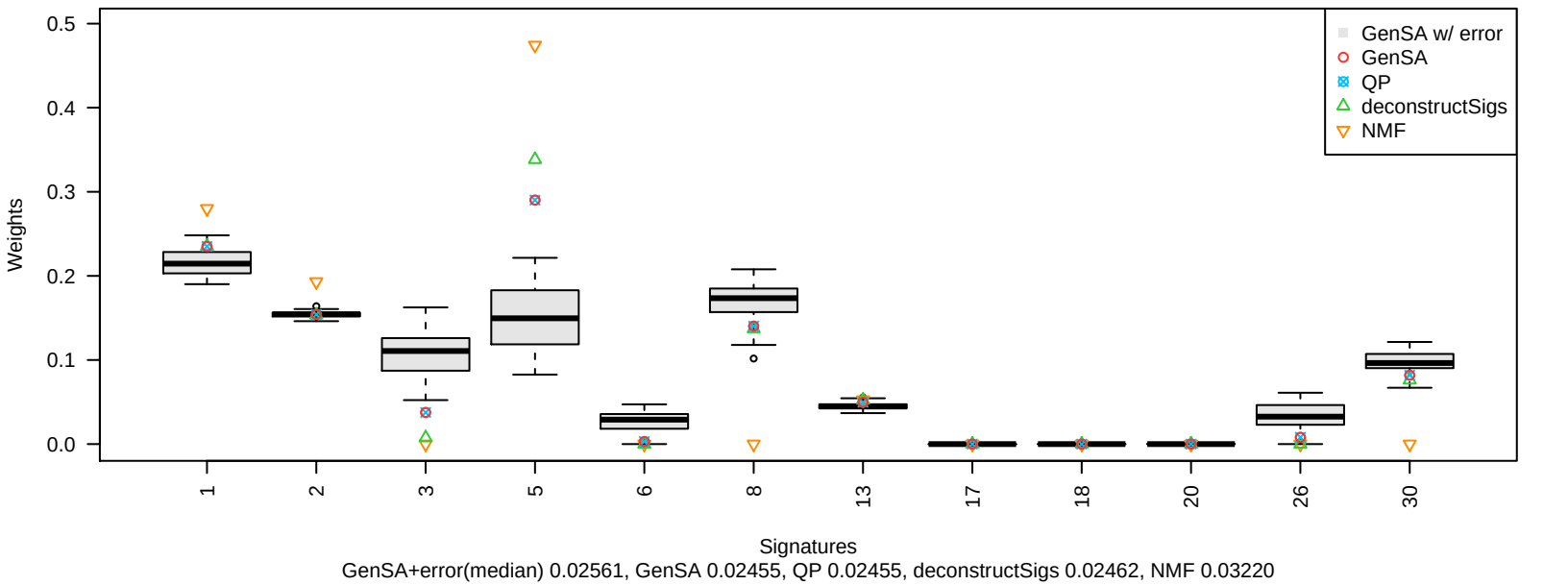
GenSA+error(median) 0.02625, GenSA 0.02513, QP 0.02513, deconstructSigs 0.02533, NMF 0.02884

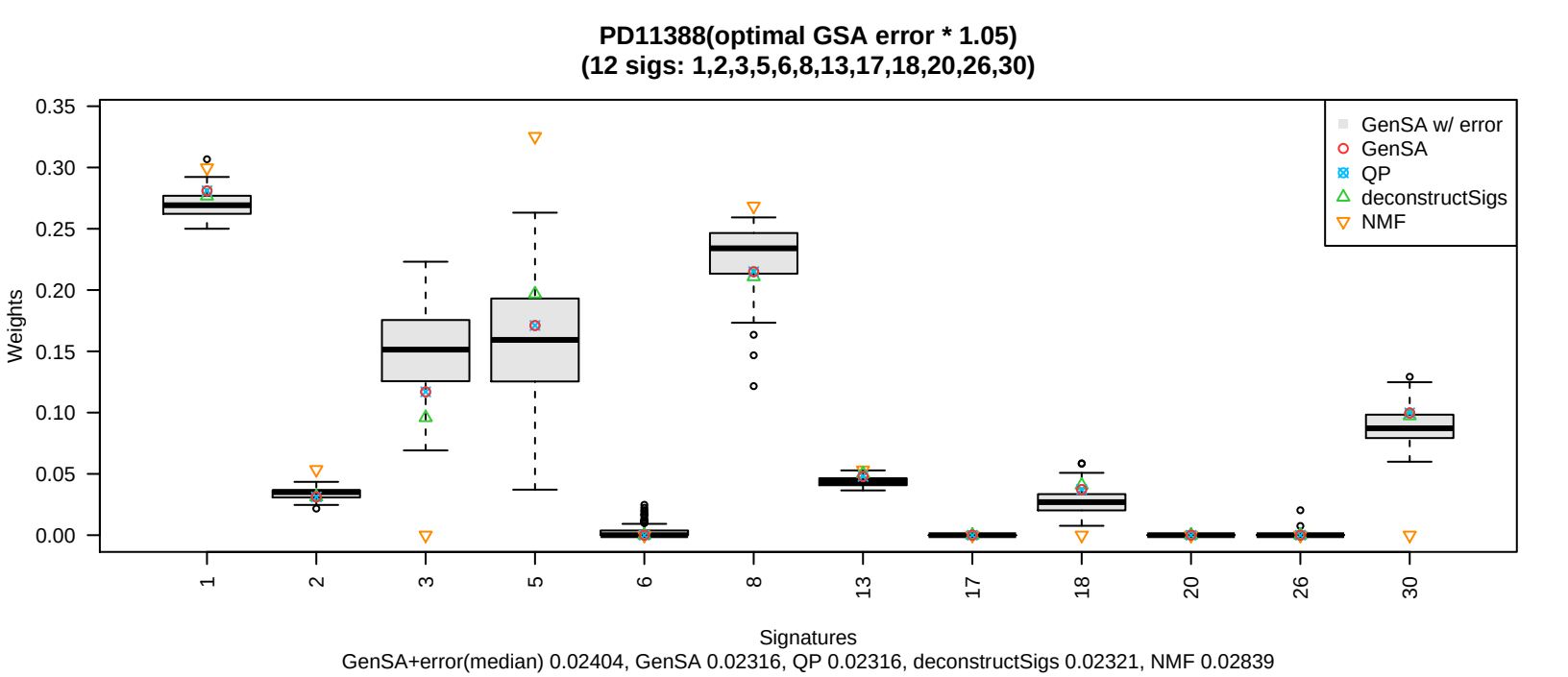


GenSA+error(median) 0.02791, GenSA 0.02666, QP 0.02666, deconstructSigs 0.02815, NMF 0.02802

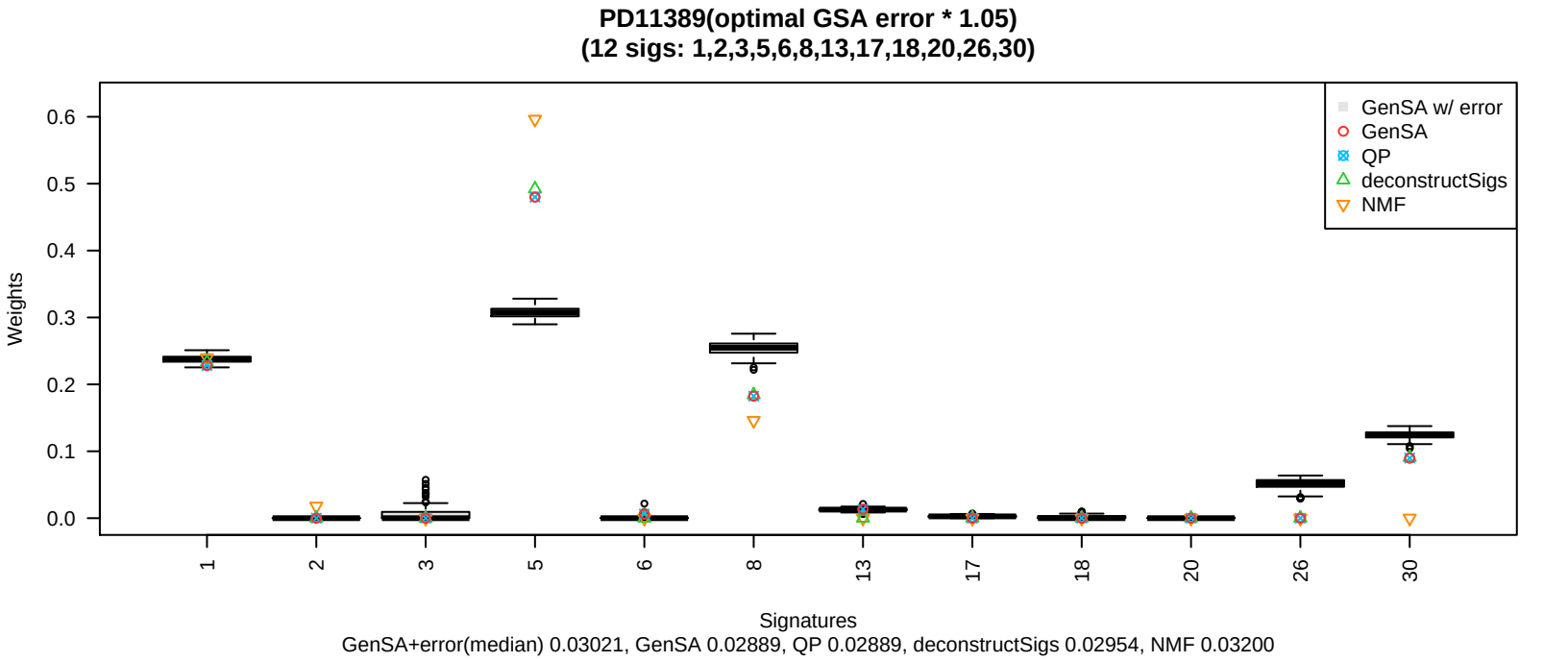

PD11384(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02849, GenSA 0.02728, QP 0.02728, deconstructSigs 0.02737, NMF 0.02979


PD11385(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03066, GenSA 0.02935, QP 0.02935, deconstructSigs 0.03018, NMF 0.03247

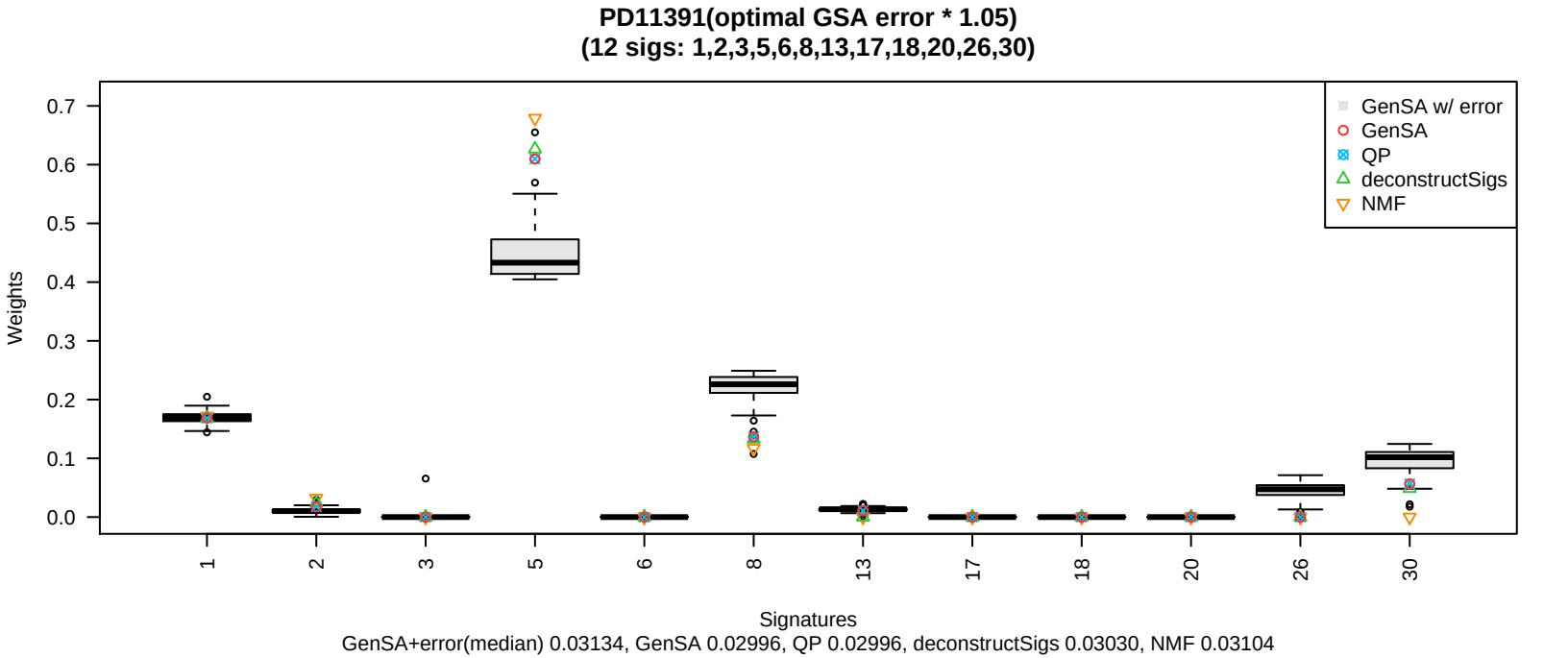

PD11386(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02561, GenSA 0.02455, QP 0.02455, deconstructSigs 0.02462, NMF 0.03220



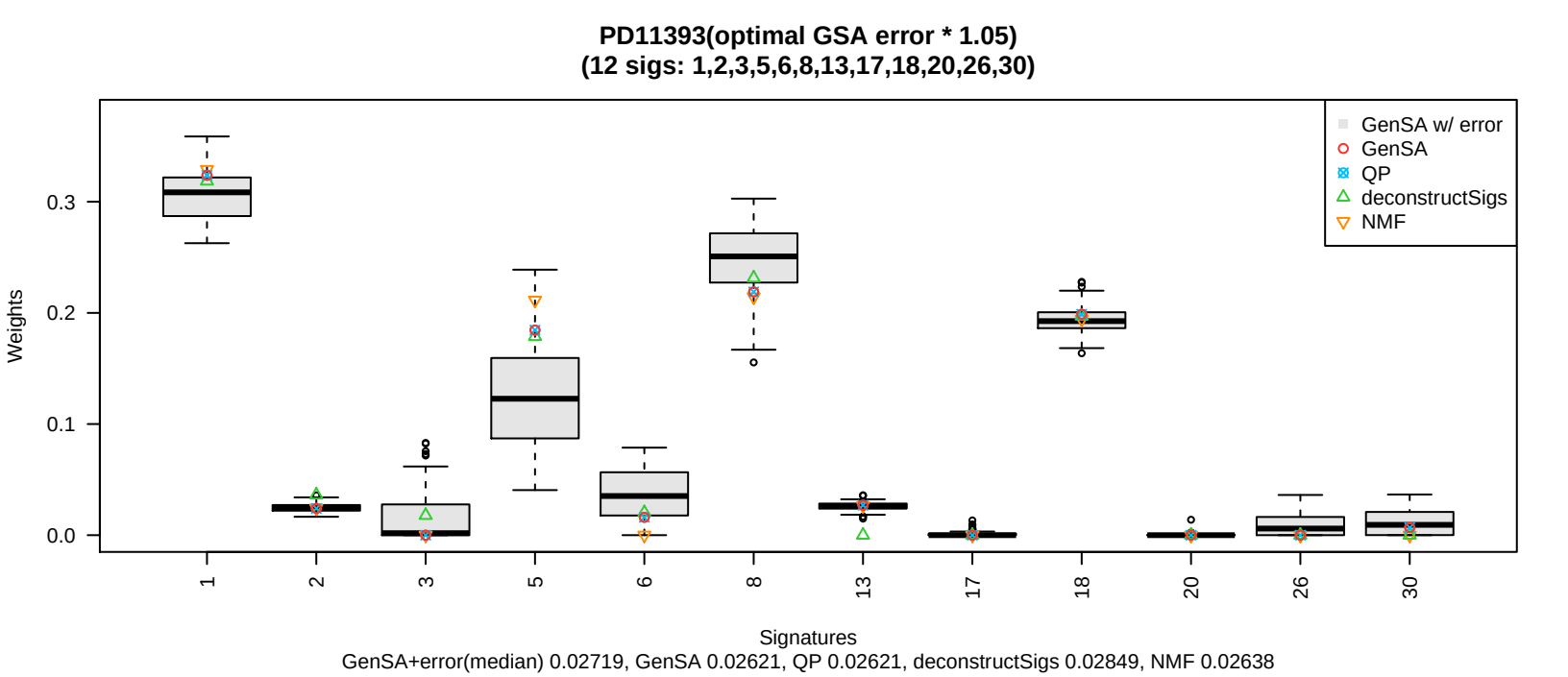
GenSA+error(median) 0.02404, GenSA 0.02316, QP 0.02316, deconstructSigs 0.02321, NMF 0.02839



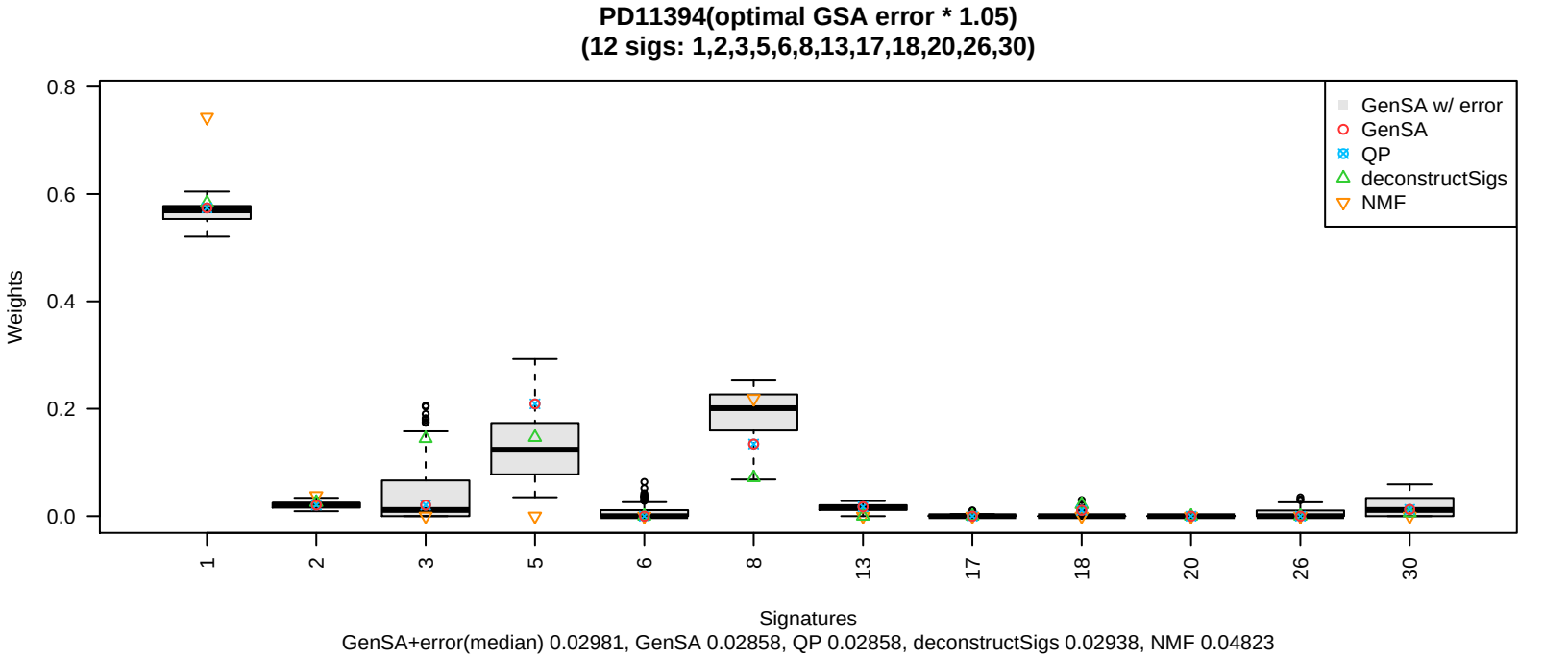
GenSA+error(median) 0.03021, GenSA 0.02889, QP 0.02889, deconstructSigs 0.02954, NMF 0.03200



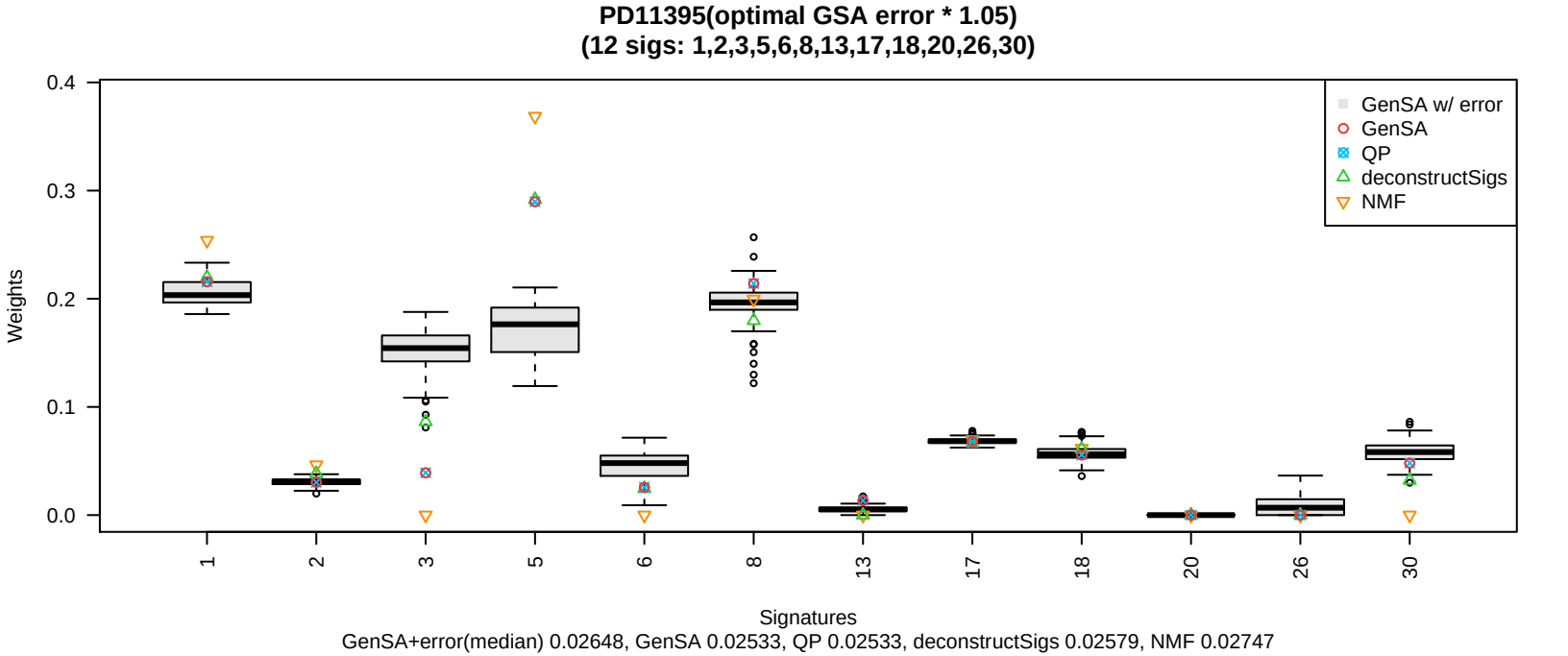
GenSA+error(median) 0.03134, GenSA 0.02996, QP 0.02996, deconstructSigs 0.03030, NMF 0.03104



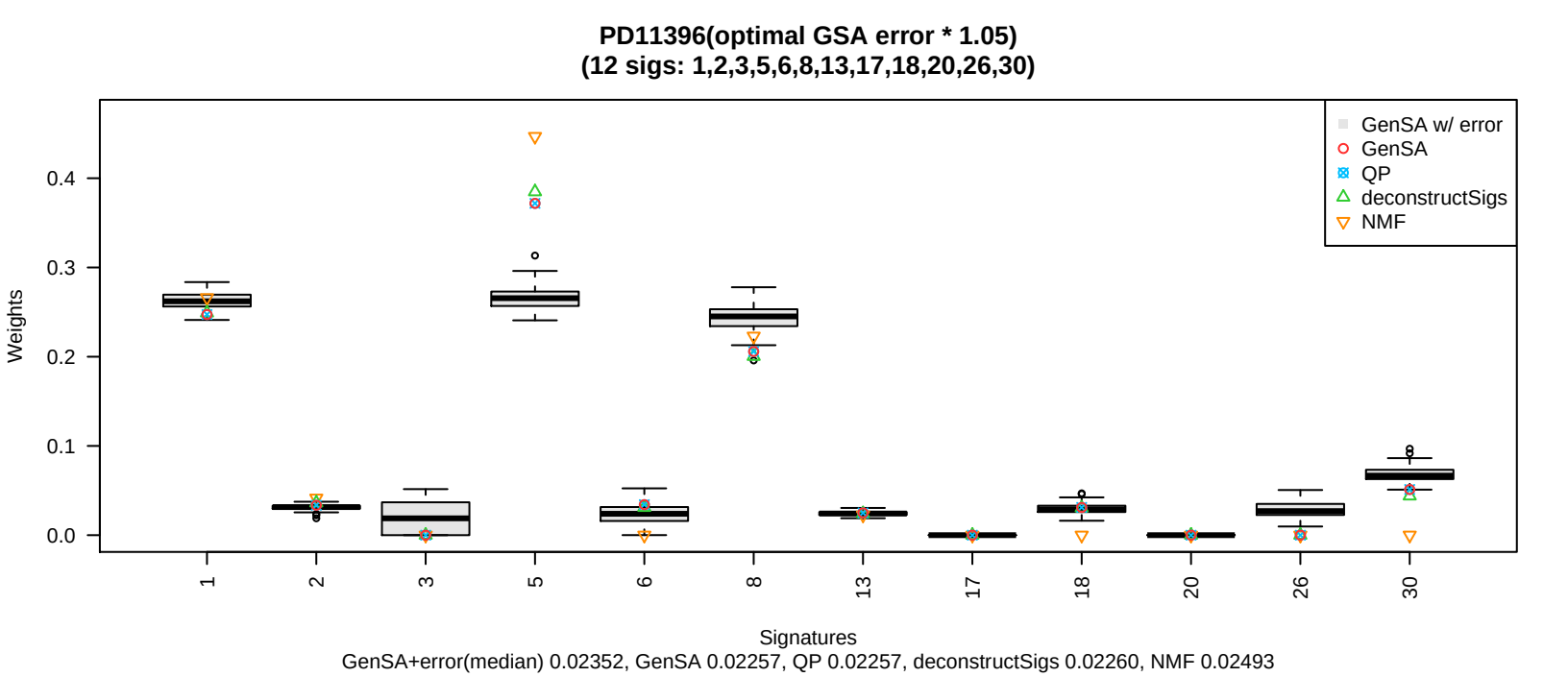
GenSA+error(median) 0.02719, GenSA 0.02621, QP 0.02621, deconstructSigs 0.02849, NMF 0.02638



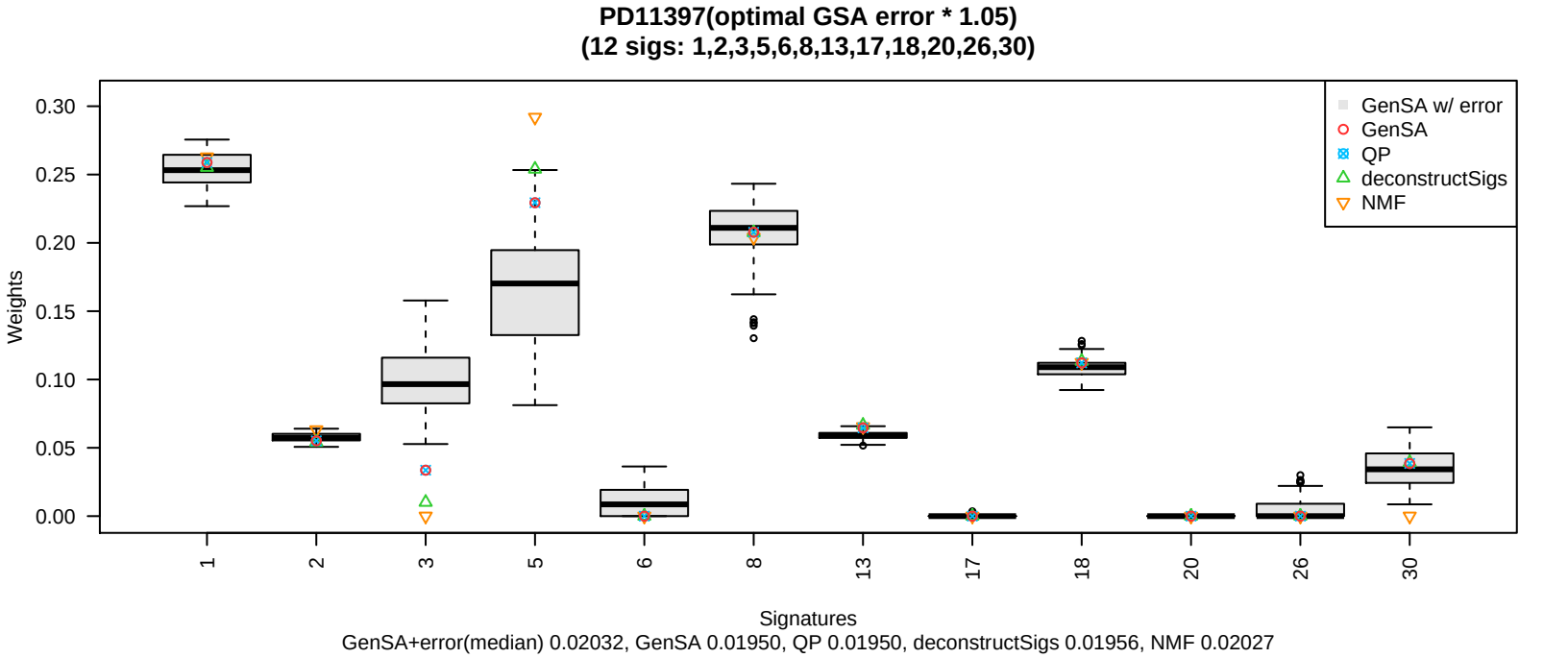
GenSA+error(median) 0.02981, GenSA 0.02858, QP 0.02858, deconstructSigs 0.02938, NMF 0.04823



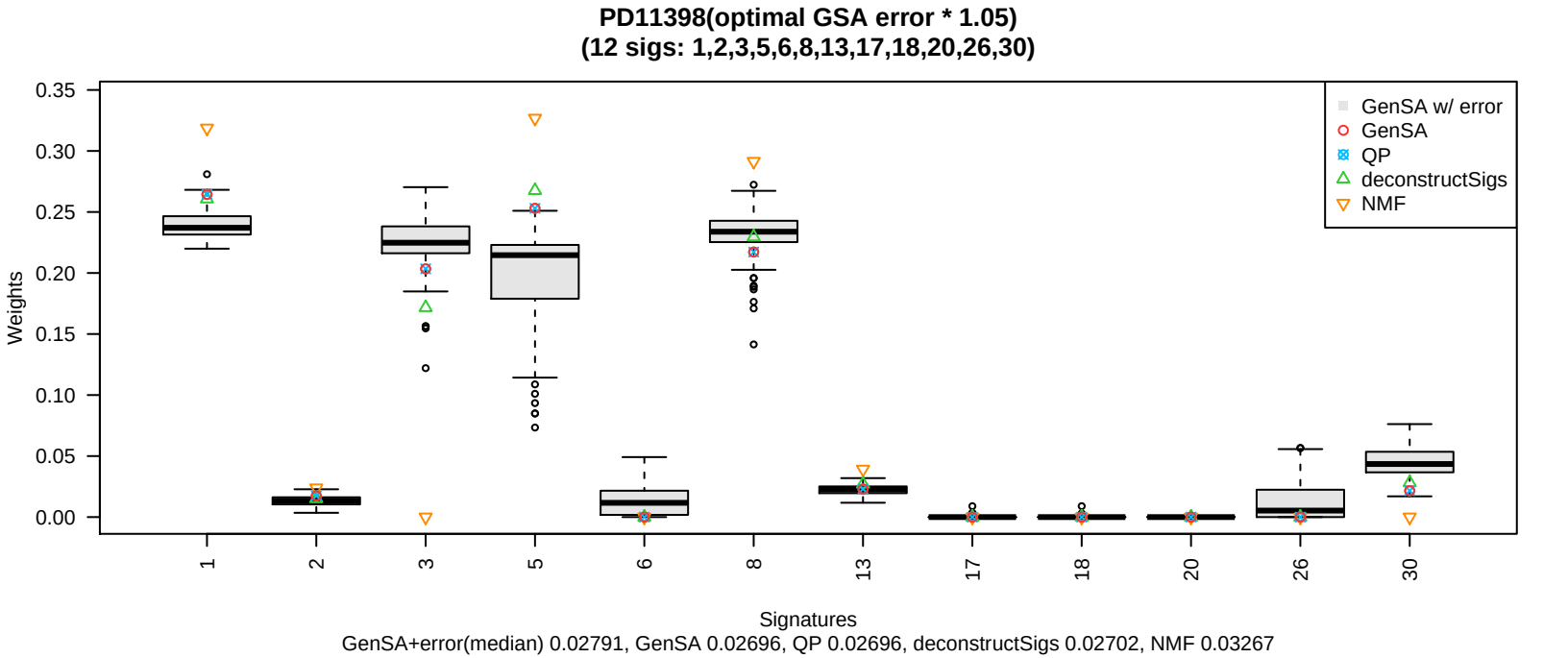
GenSA+error(median) 0.02648, GenSA 0.02533, QP 0.02533, deconstructSigs 0.02579, NMF 0.02747



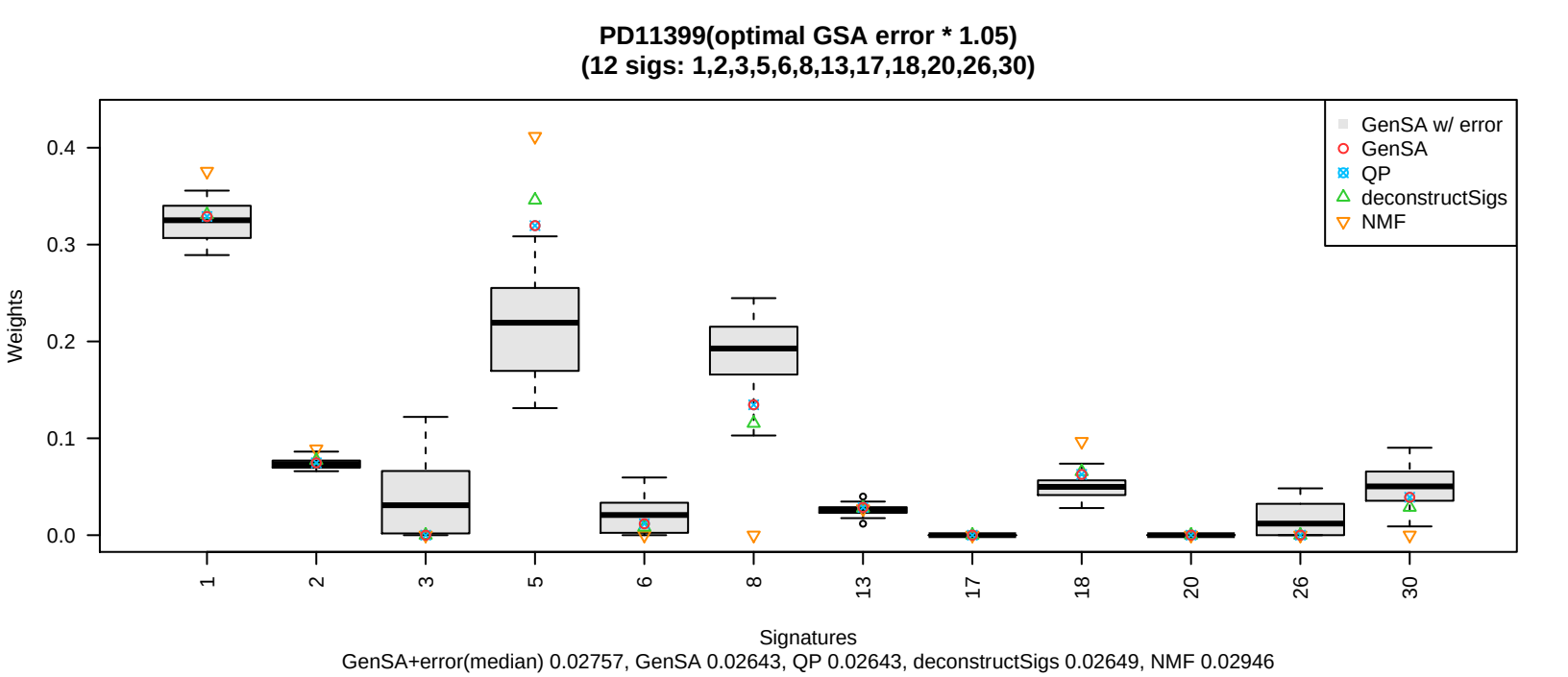
GenSA+error(median) 0.02352, GenSA 0.02257, QP 0.02257, deconstructSigs 0.02260, NMF 0.02493



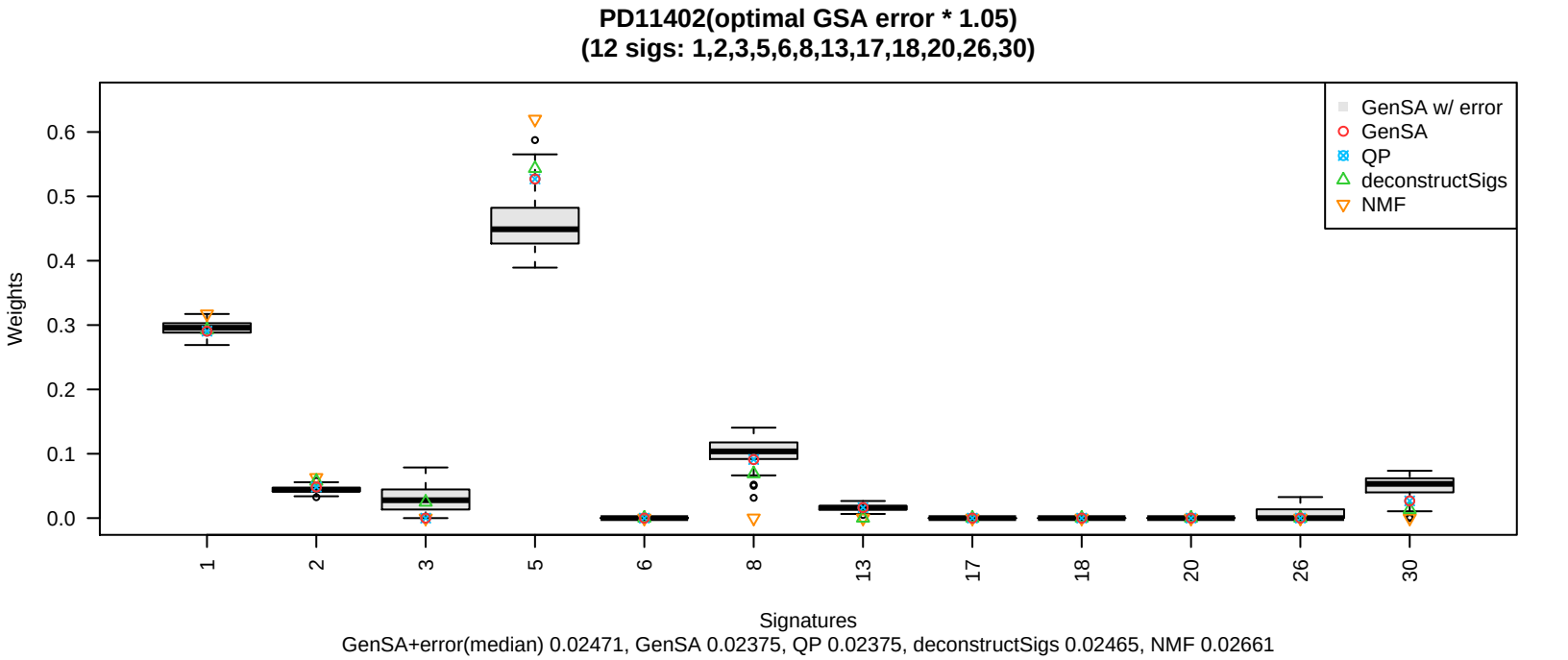
GenSA+error(median) 0.02032, GenSA 0.01950, QP 0.01950, deconstructSigs 0.01956, NMF 0.02027



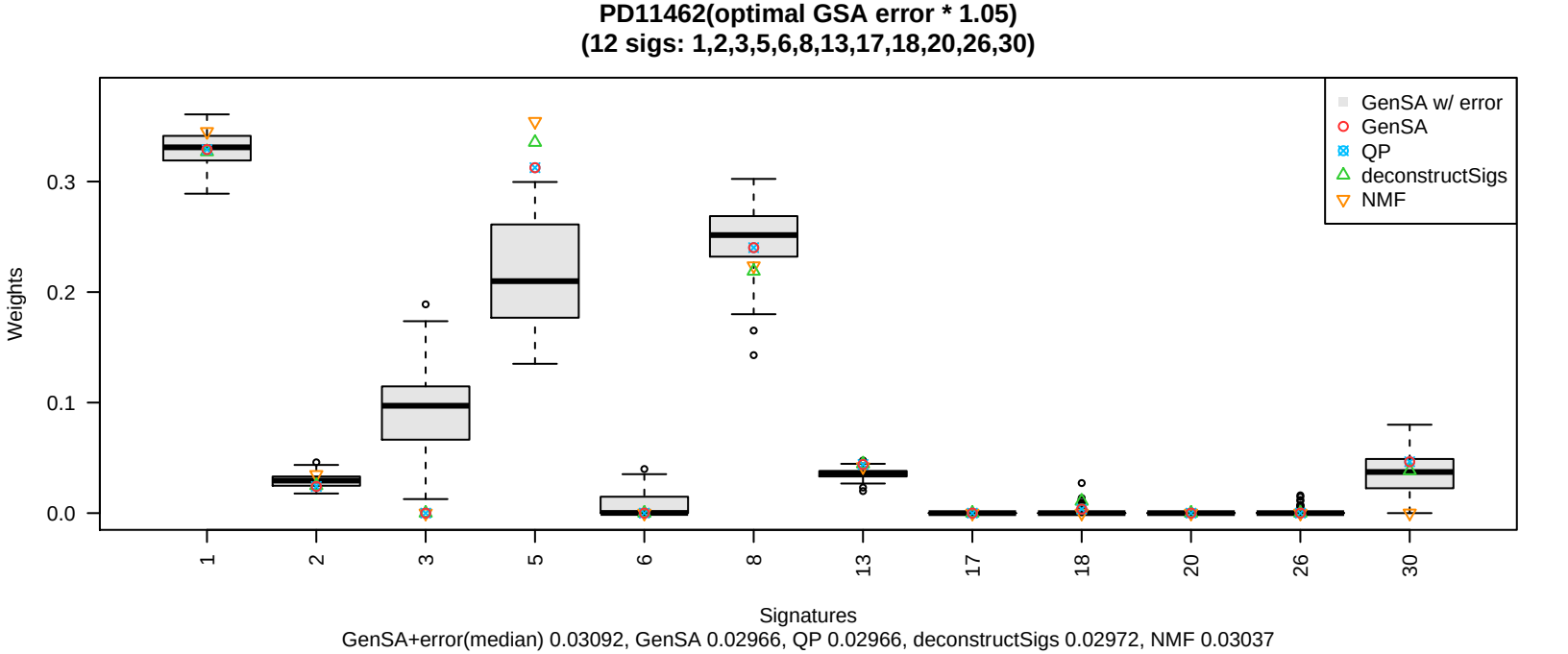
GenSA+error(median) 0.02791, GenSA 0.02696, QP 0.02696, deconstructSigs 0.02702, NMF 0.03267



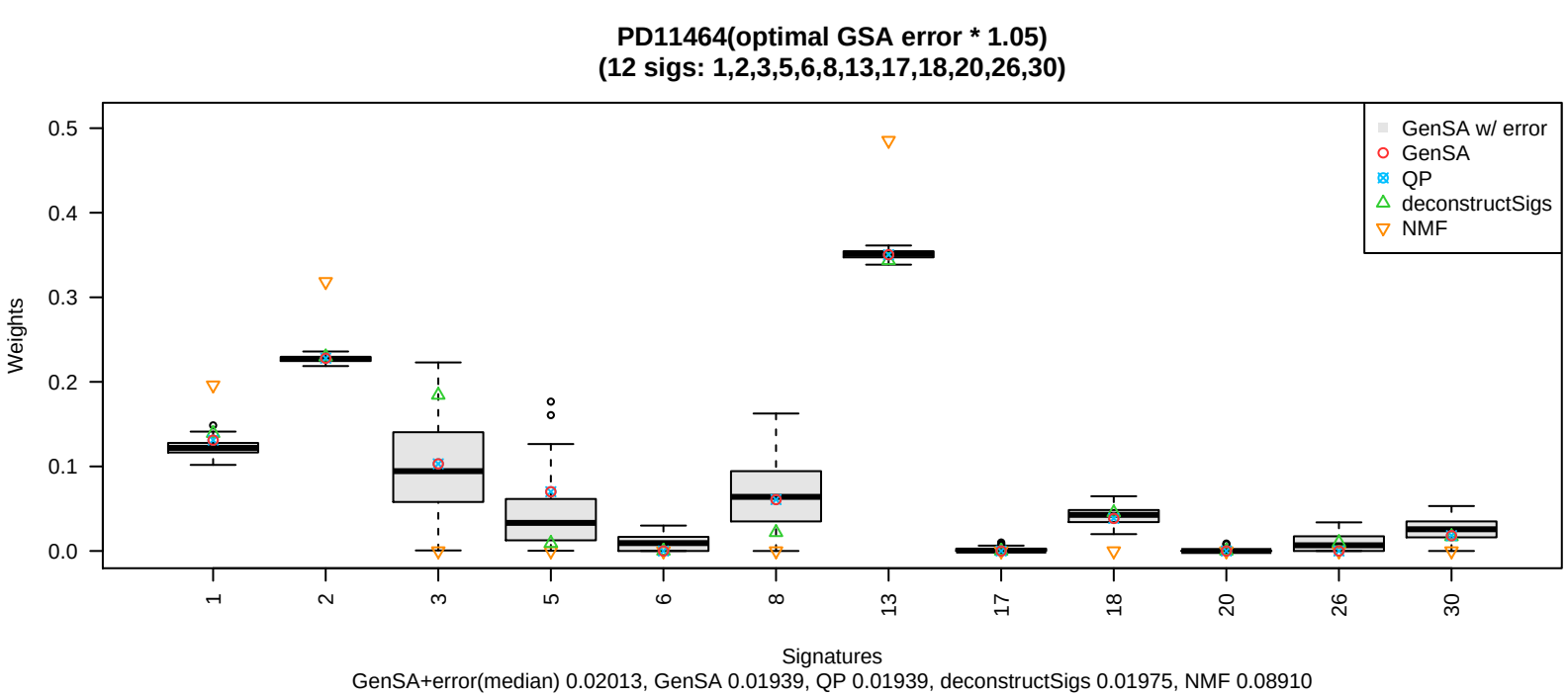
GenSA+error(median) 0.02757, GenSA 0.02643, QP 0.02643, deconstructSigs 0.02649, NMF 0.02946

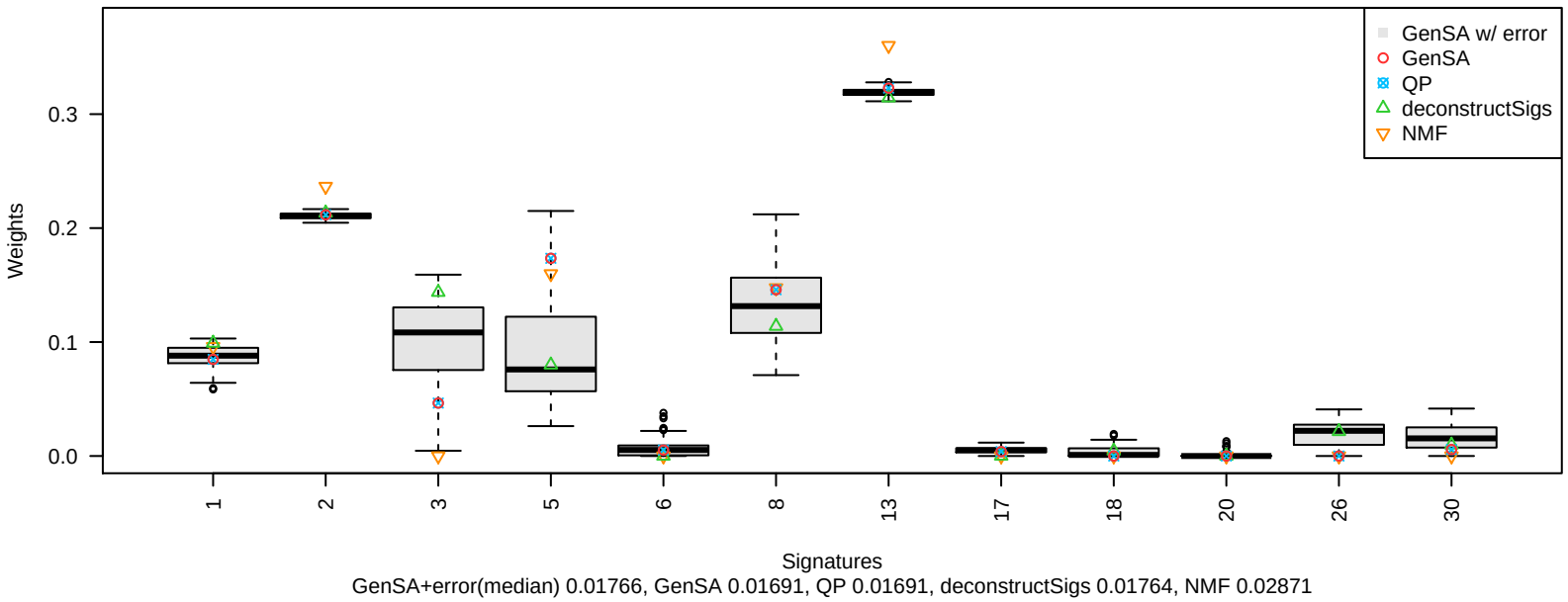


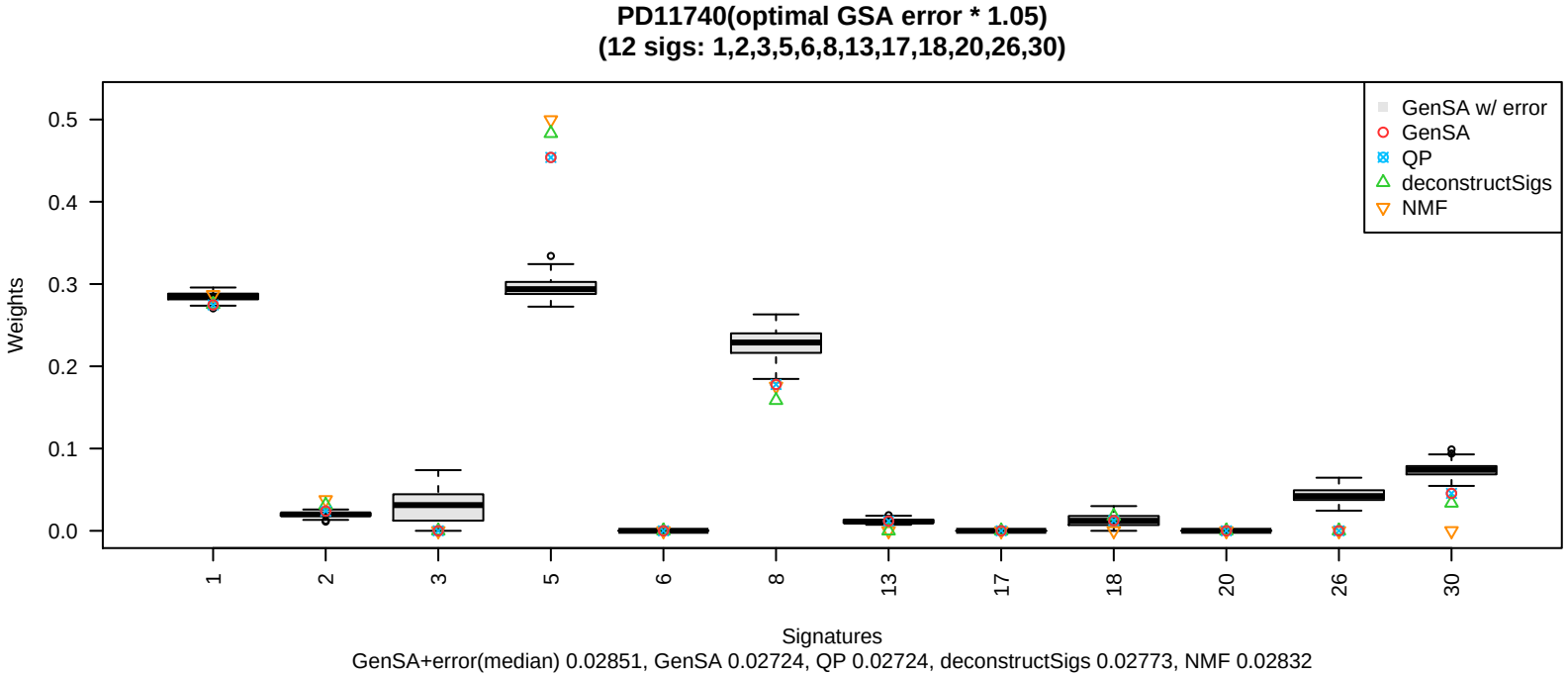
GenSA+error(median) 0.02471, GenSA 0.02375, QP 0.02375, deconstructSigs 0.02465, NMF 0.02661

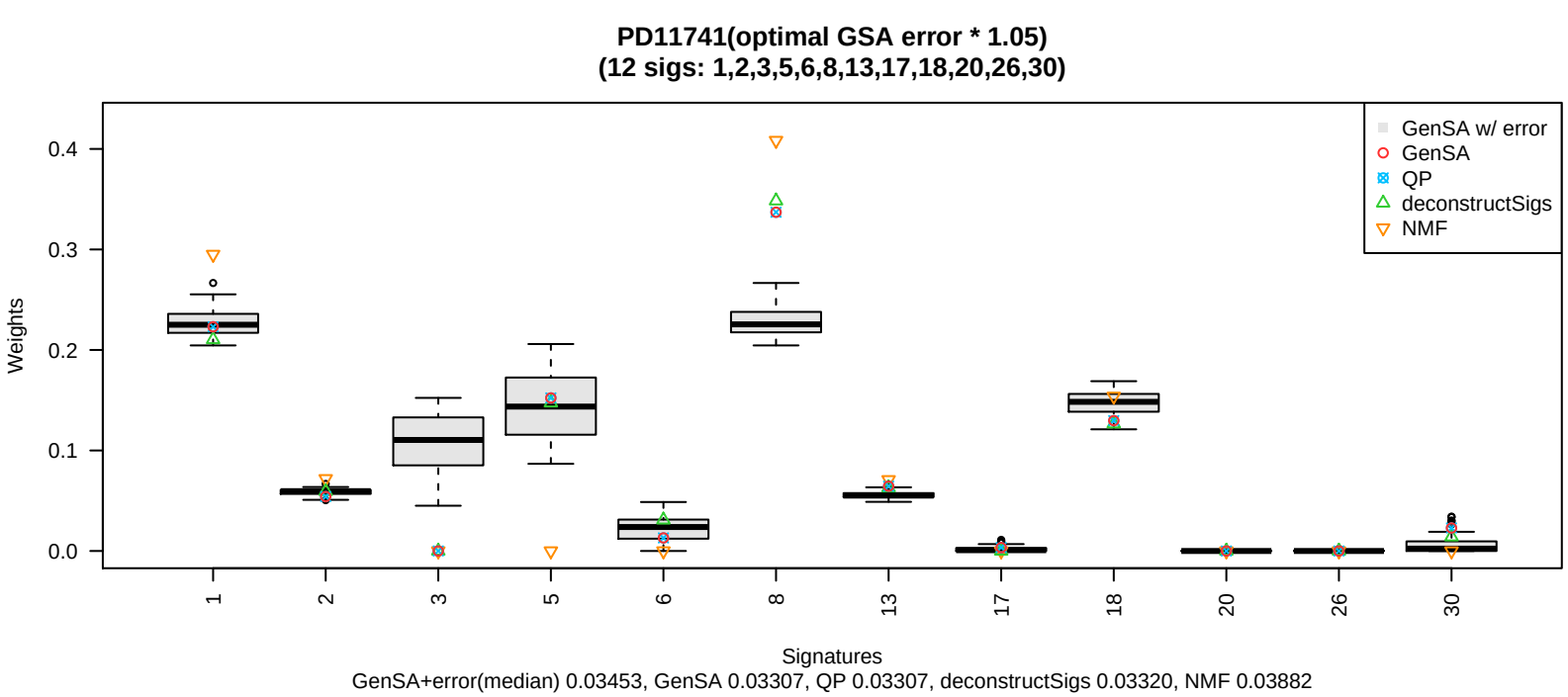


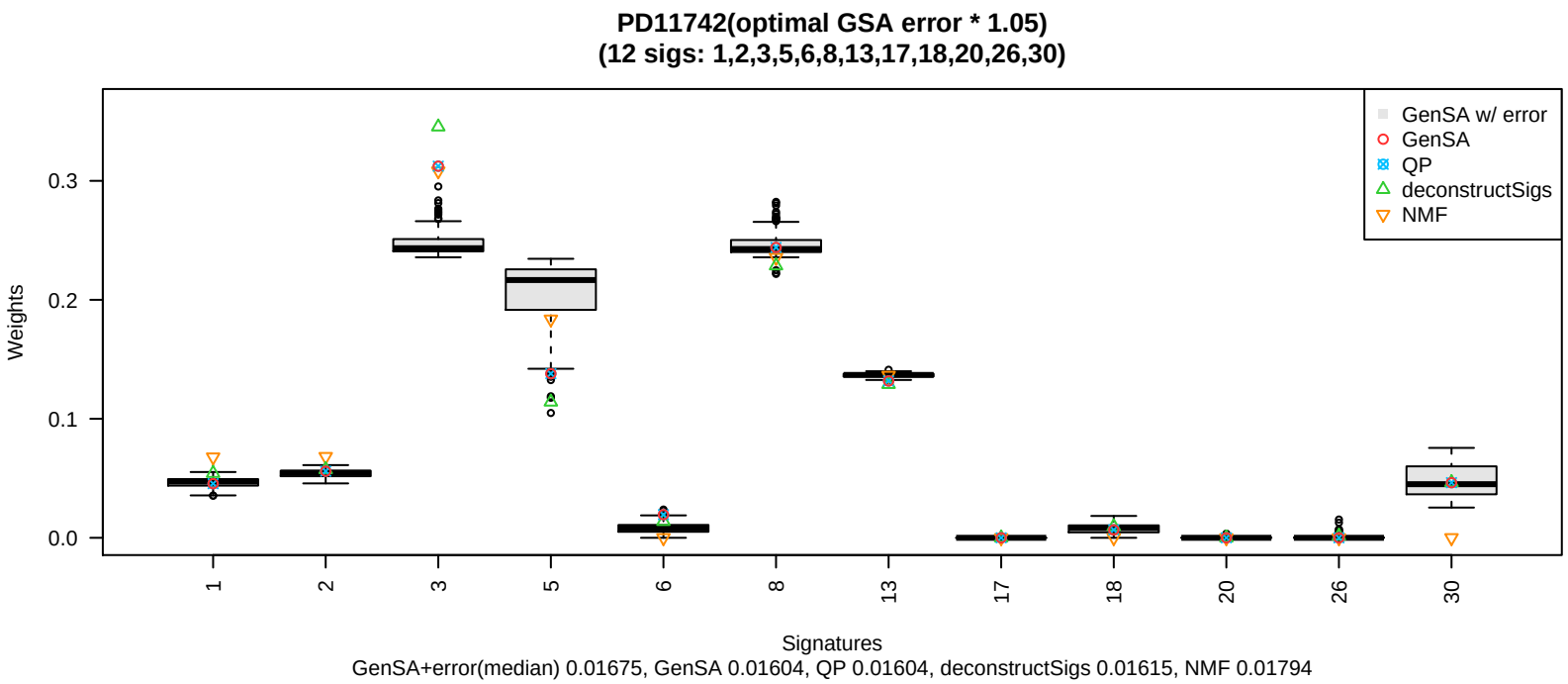
GenSA+error(median) 0.03092, GenSA 0.02966, QP 0.02966, deconstructSigs 0.02972, NMF 0.03037

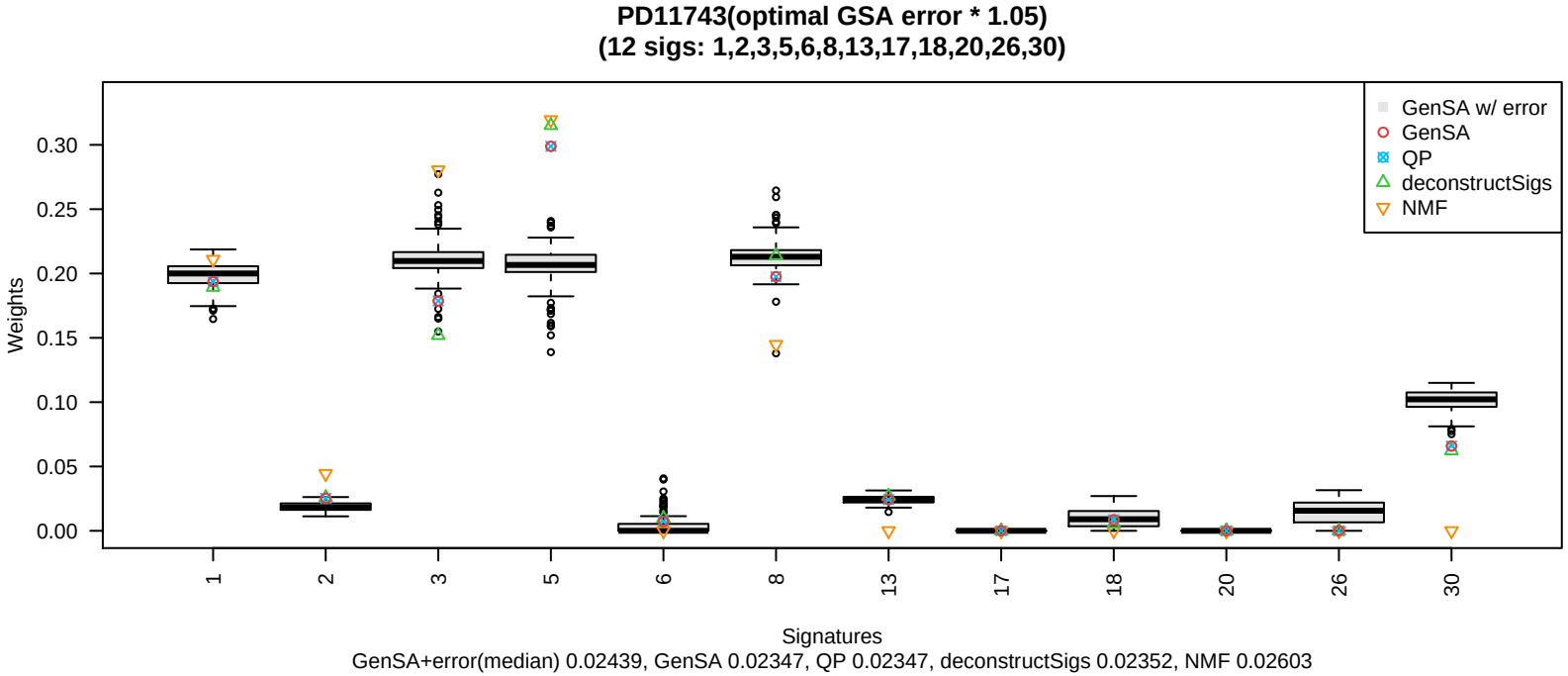

PD11464(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02013, GenSA 0.01939, QP 0.01939, deconstructSigs 0.01975, NMF 0.08910

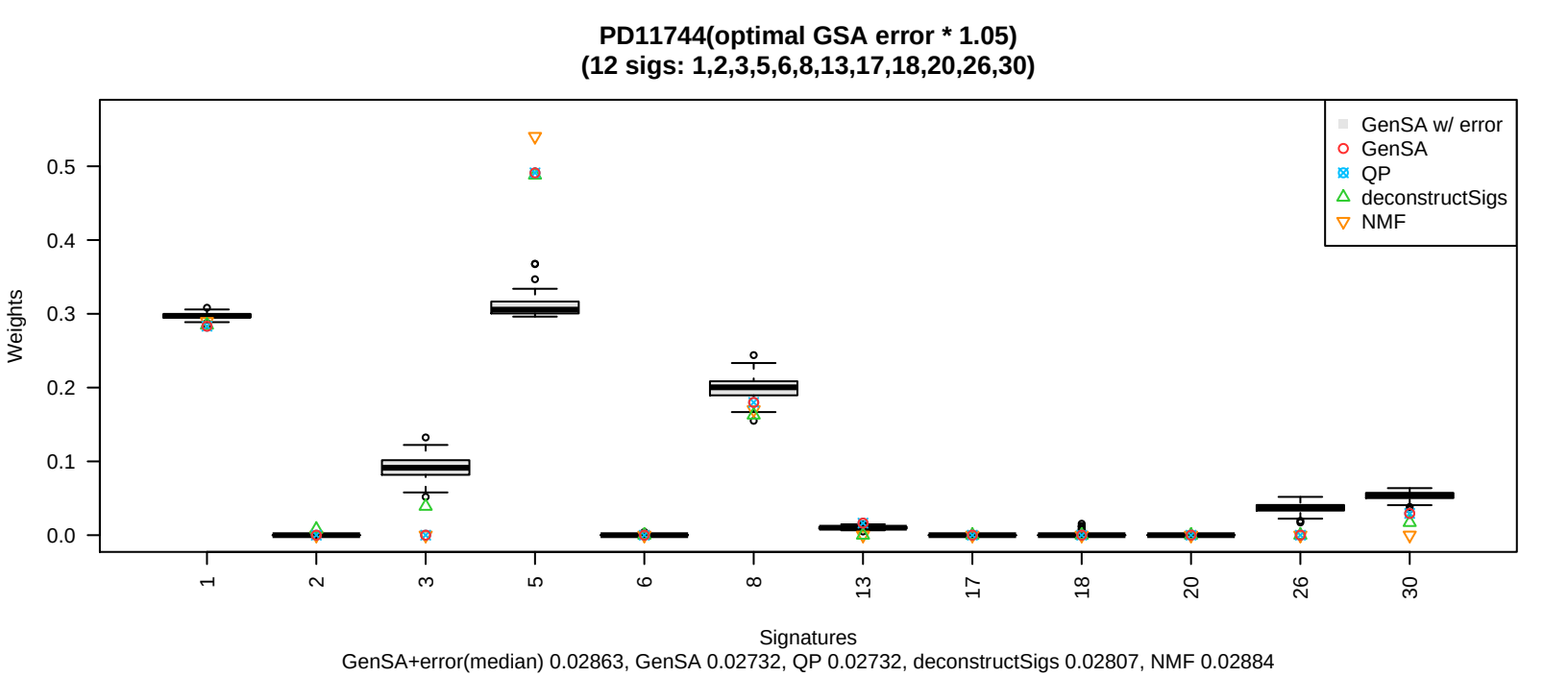

PD11465(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01766, GenSA 0.01691, QP 0.01691, deconstructSigs 0.01764, NMF 0.02871


PD11740(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02851, GenSA 0.02724, QP 0.02724, deconstructSigs 0.02773, NMF 0.02832

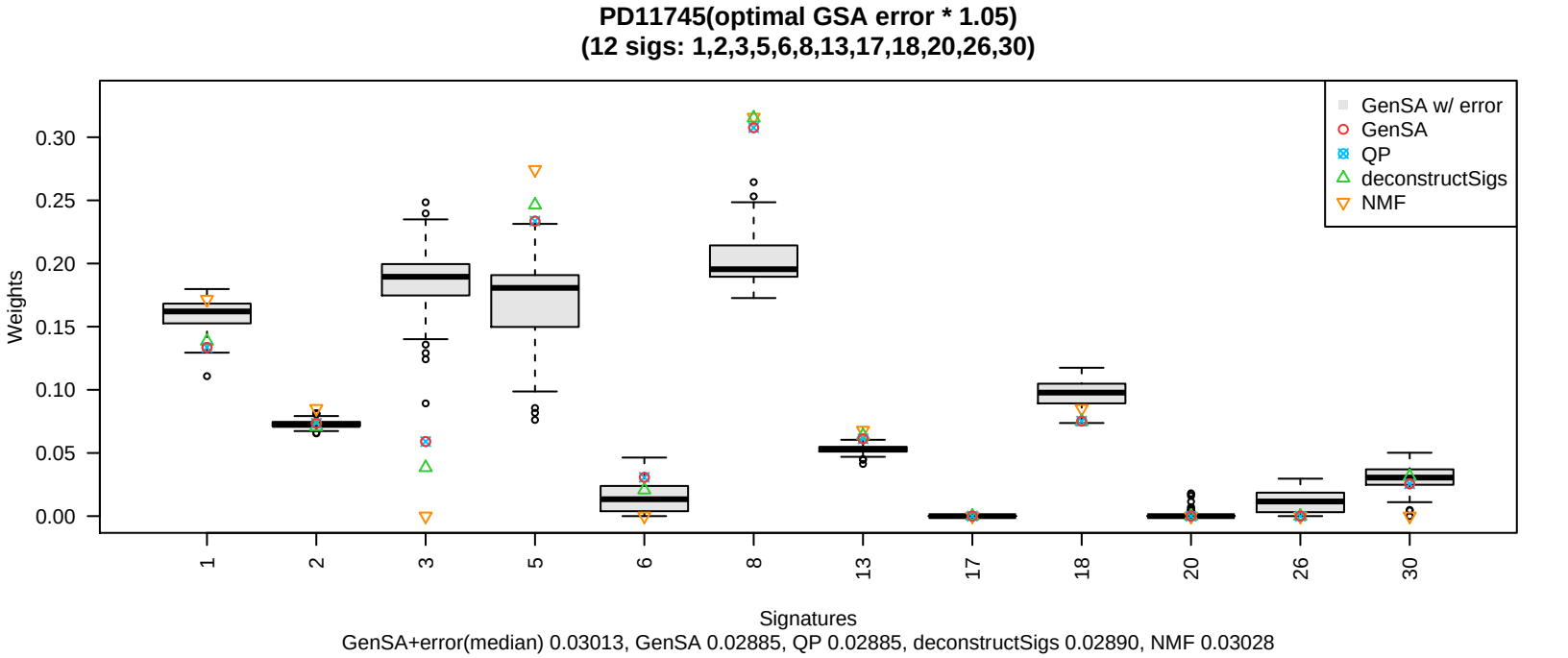

PD11741(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03453, GenSA 0.03307, QP 0.03307, deconstructSigs 0.03320, NMF 0.03882


PD11742(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01675, GenSA 0.01604, QP 0.01604, deconstructSigs 0.01615, NMF 0.01794

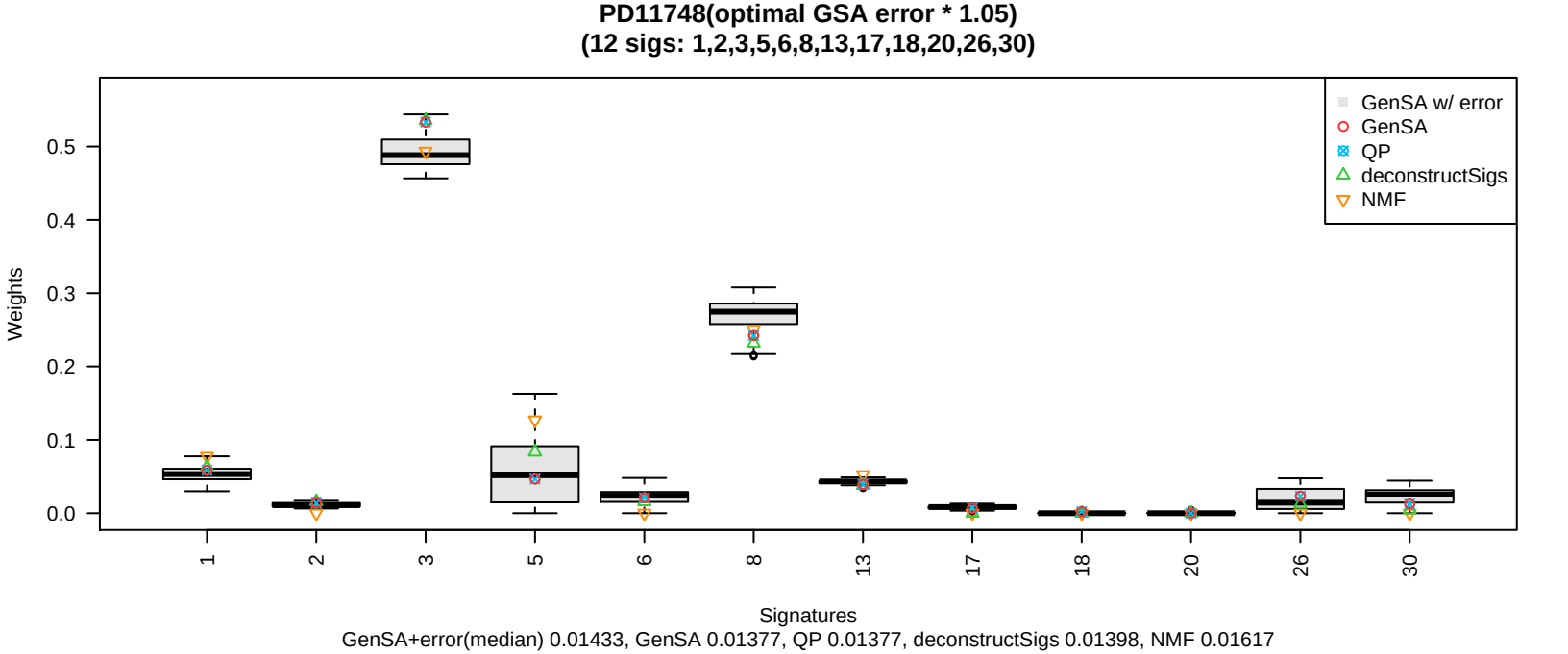

PD11743(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.00
0.05
0.10
0.15
0.20
0.25
0.30
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02439, GenSA 0.02347, QP 0.02347, deconstructSigs 0.02352, NMF 0.02603



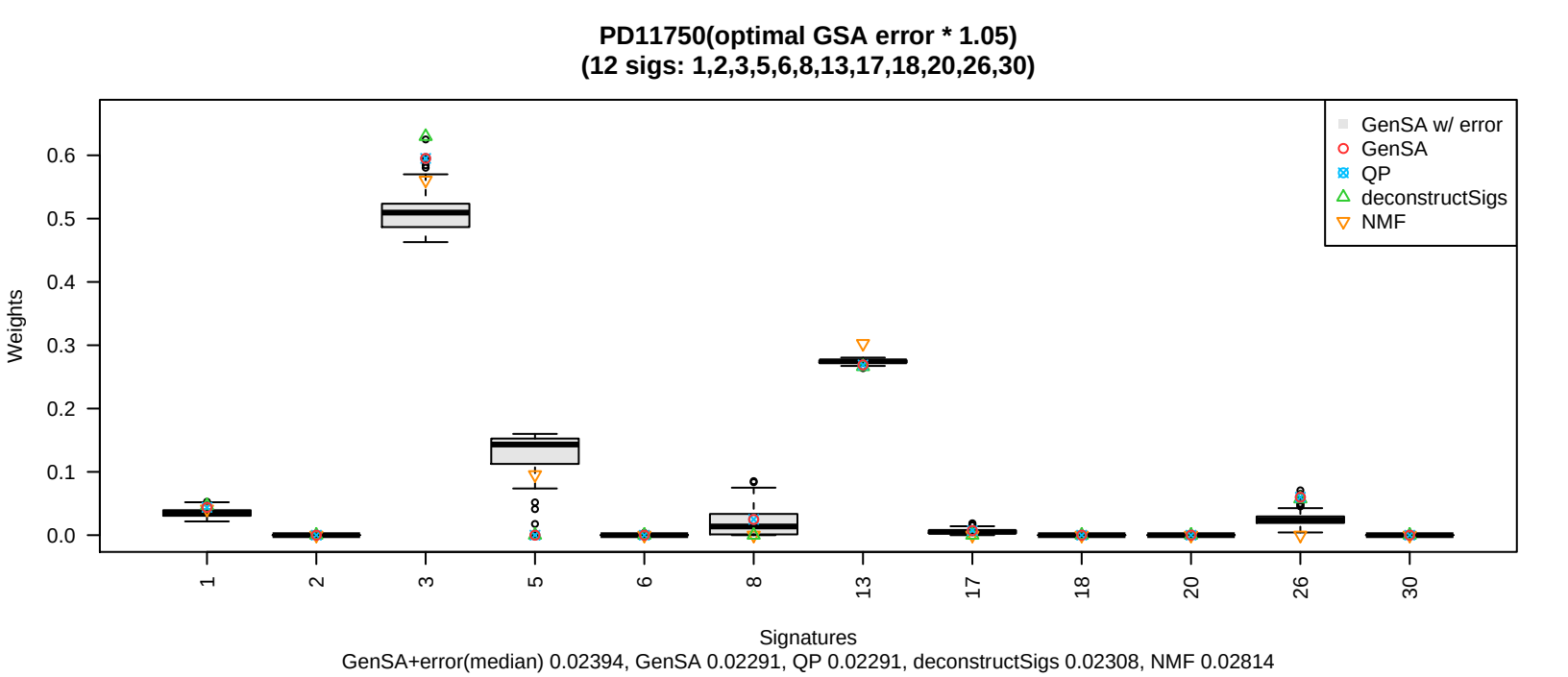
GenSA+error(median) 0.02863, GenSA 0.02732, QP 0.02732, deconstructSigs 0.02807, NMF 0.02884



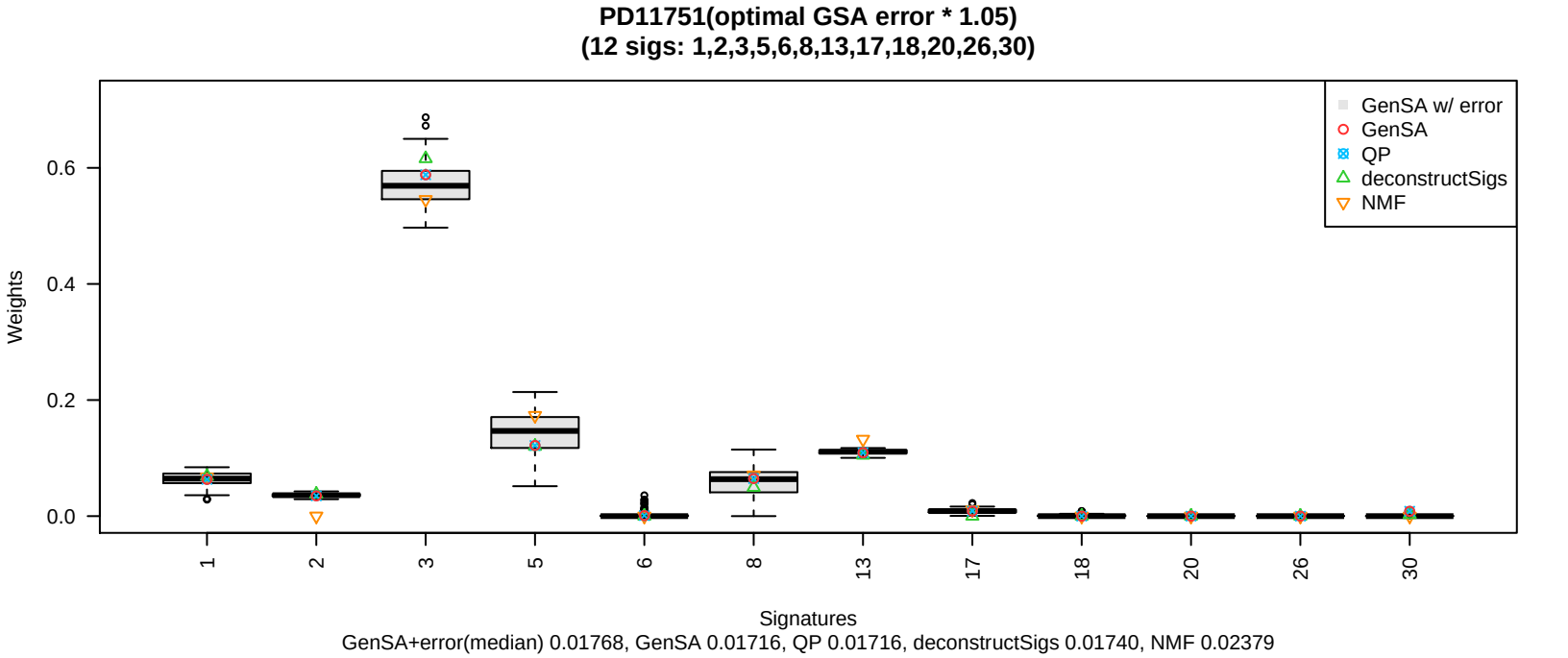
GenSA+error(median) 0.03013, GenSA 0.02885, QP 0.02885, deconstructSigs 0.02890, NMF 0.03028



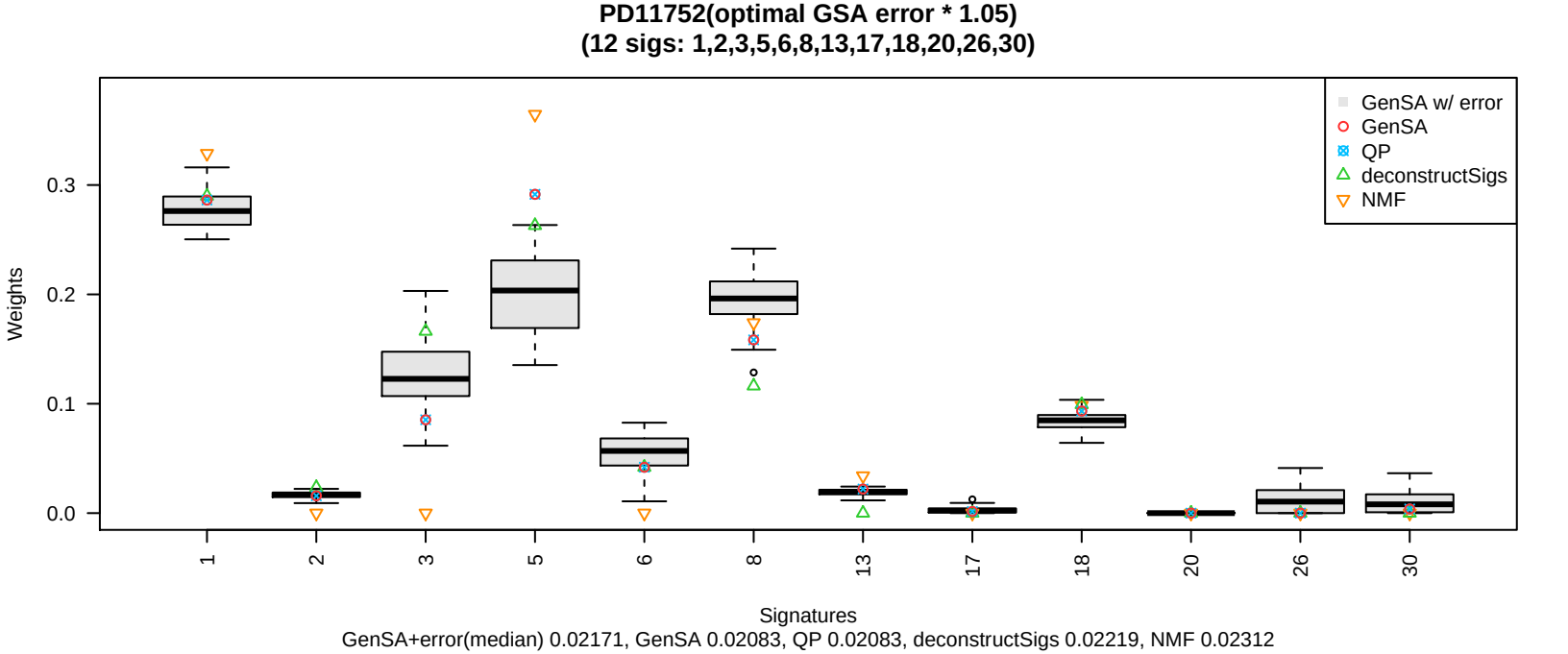
GenSA+error(median) 0.01433, GenSA 0.01377, QP 0.01377, deconstructSigs 0.01398, NMF 0.01617



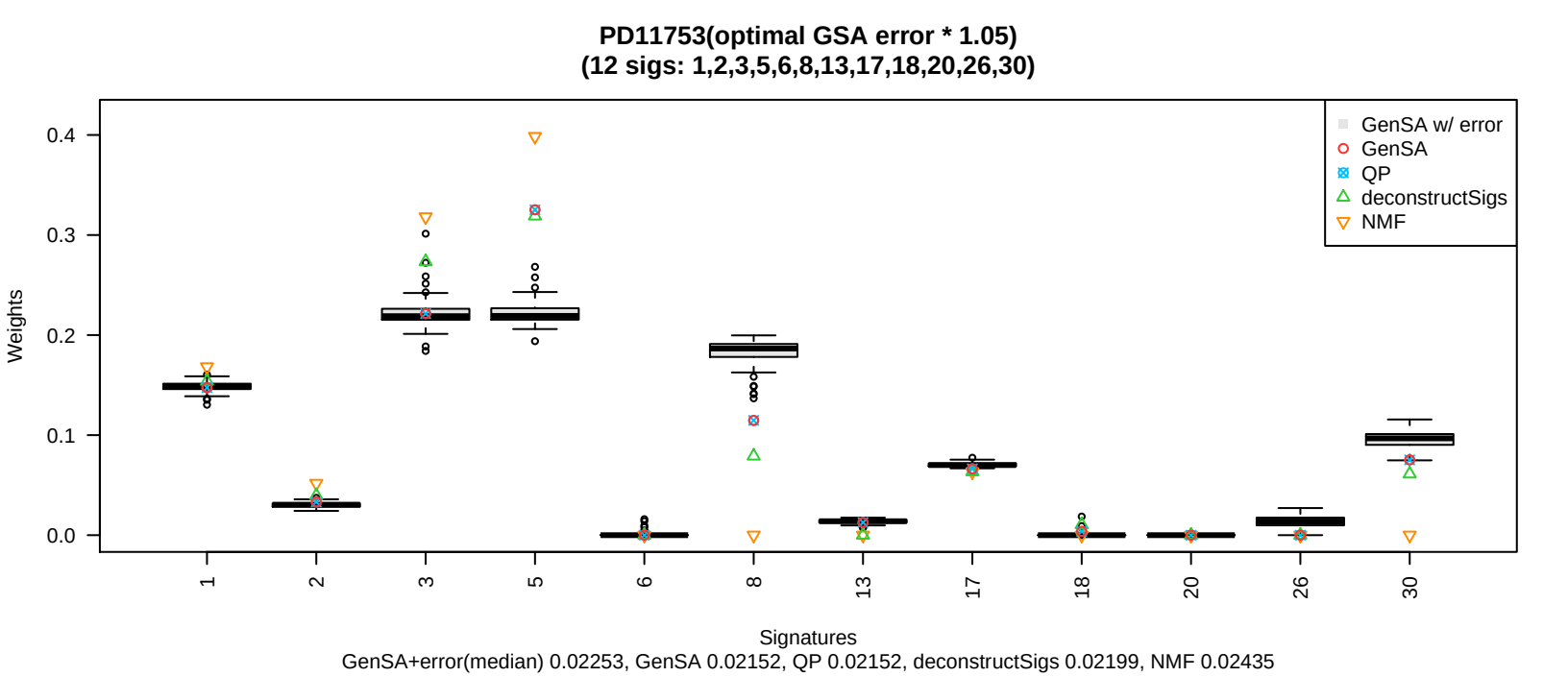
GenSA+error(median) 0.02394, GenSA 0.02291, QP 0.02291, deconstructSigs 0.02308, NMF 0.02814



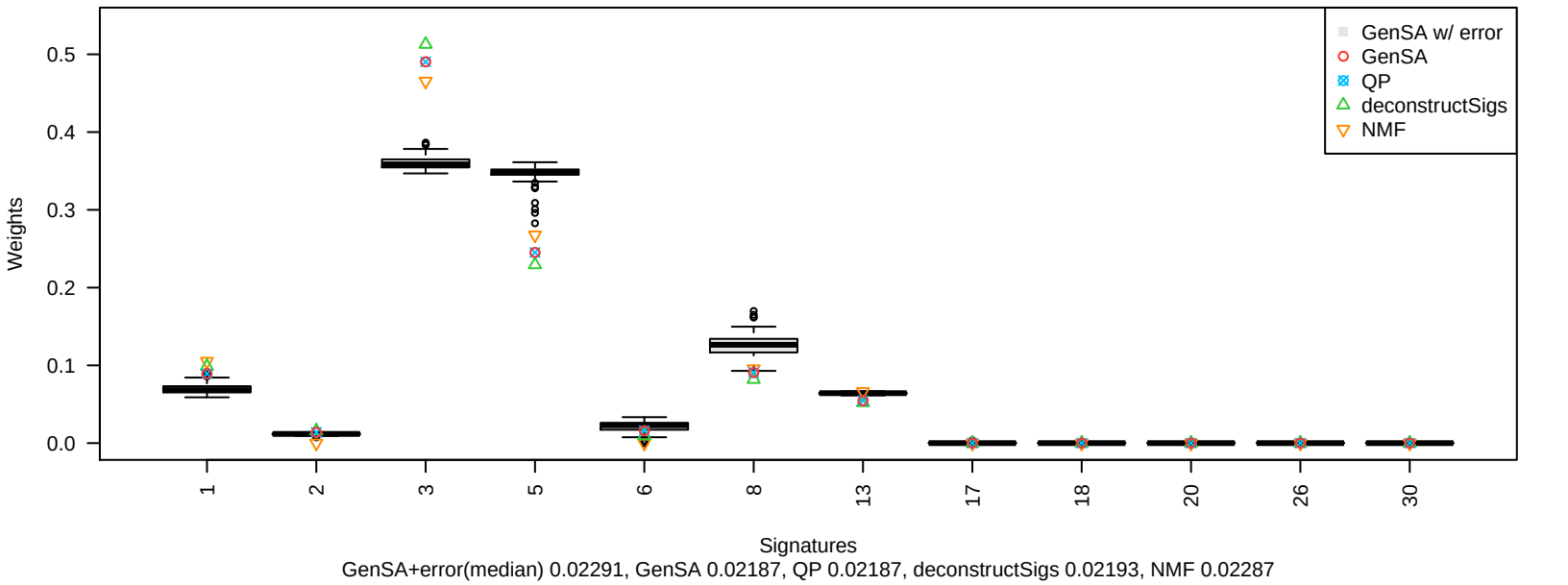
GenSA+error(median) 0.01768, GenSA 0.01716, QP 0.01716, deconstructSigs 0.01740, NMF 0.02379



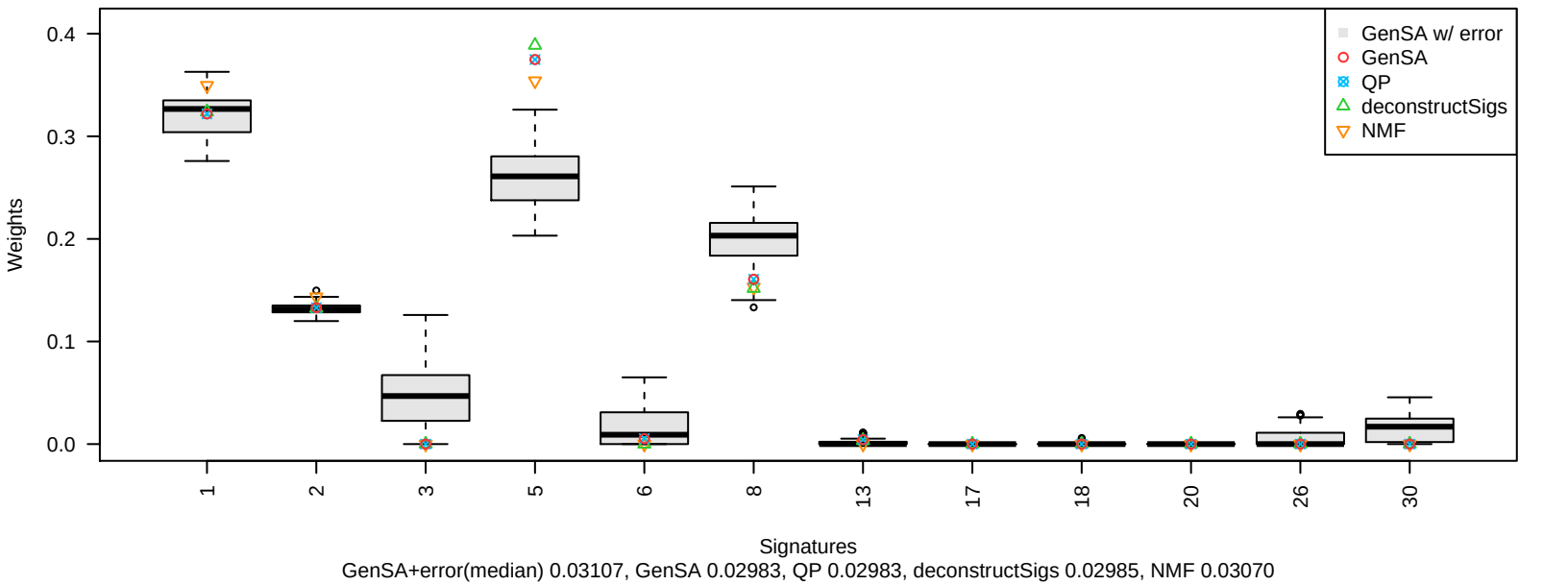
GenSA+error(median) 0.02171, GenSA 0.02083, QP 0.02083, deconstructSigs 0.02219, NMF 0.02312



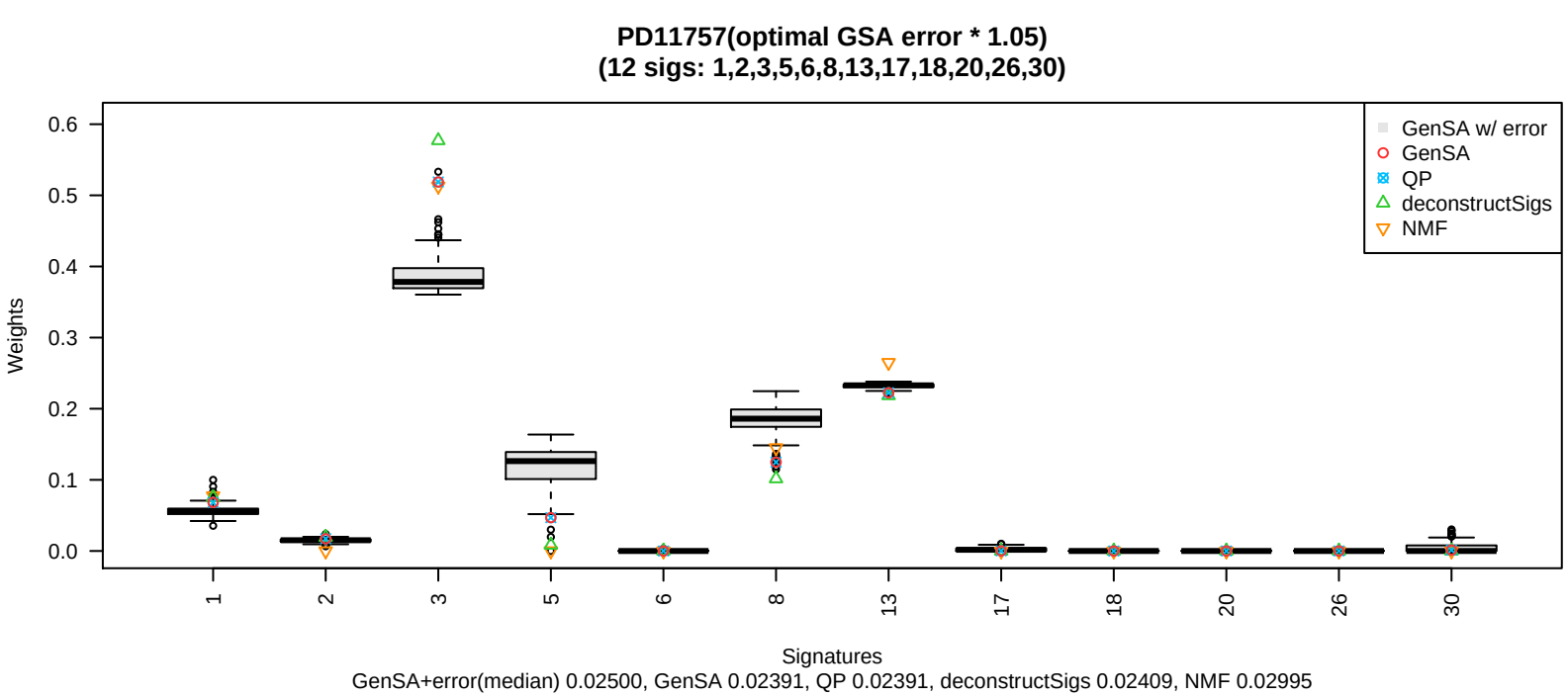
GenSA+error(median) 0.02253, GenSA 0.02152, QP 0.02152, deconstructSigs 0.02199, NMF 0.02435

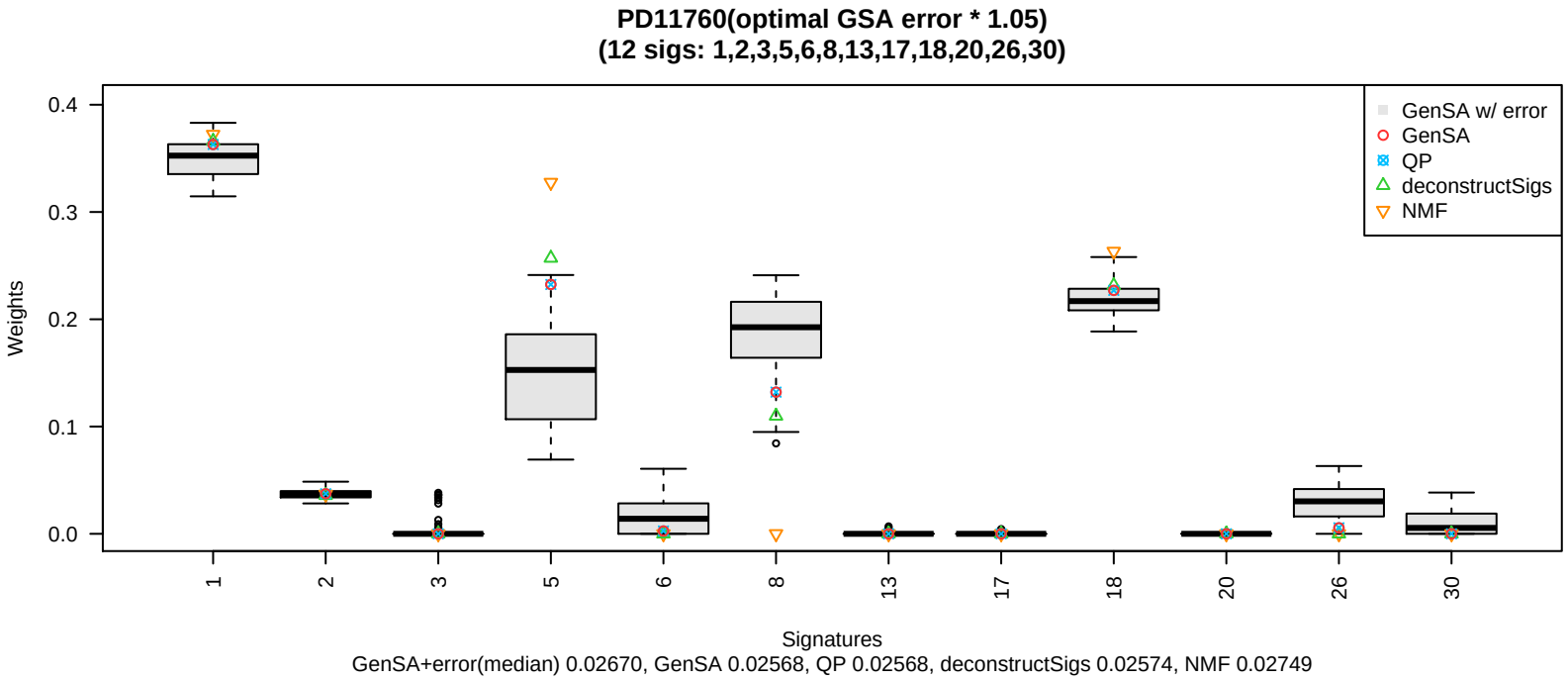


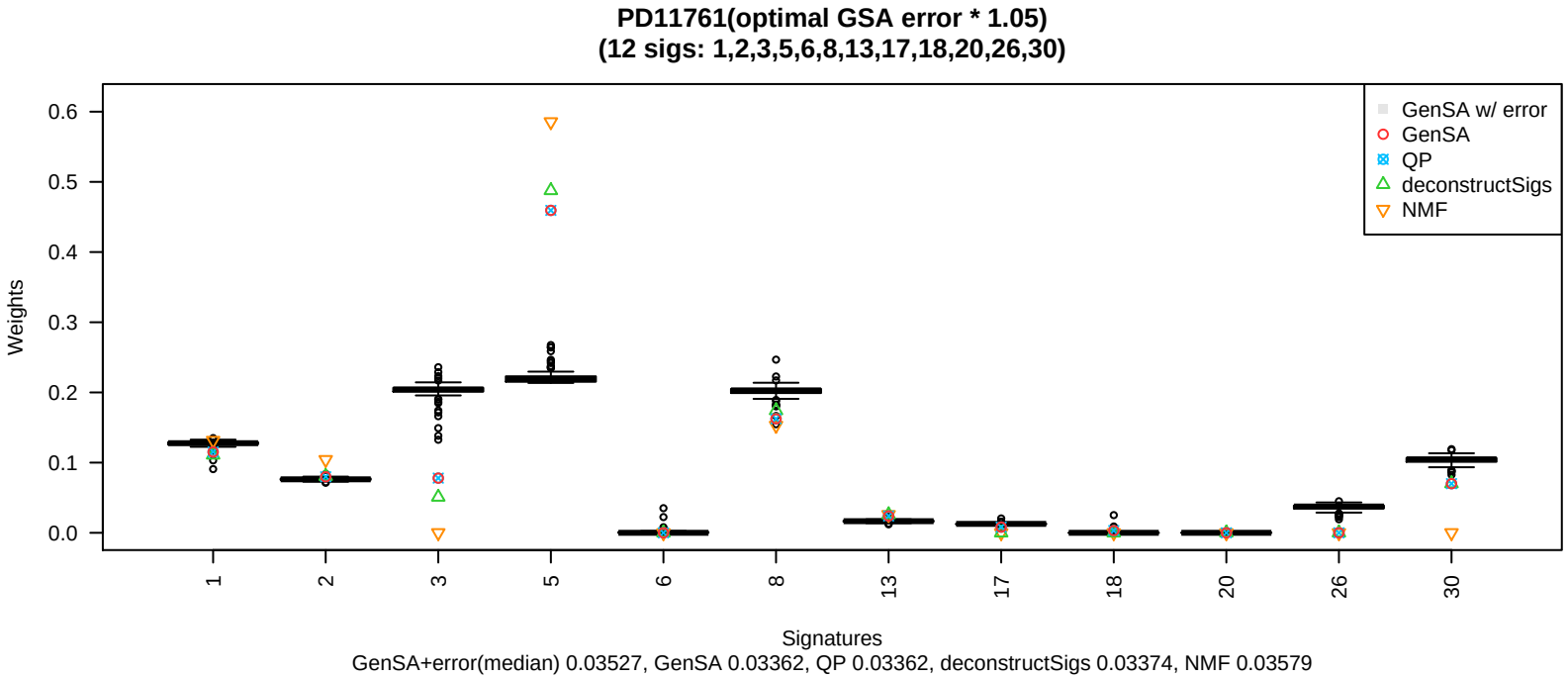
GenSA+error(median) 0.02291, GenSA 0.02187, QP 0.02187, deconstructSigs 0.02193, NMF 0.02287

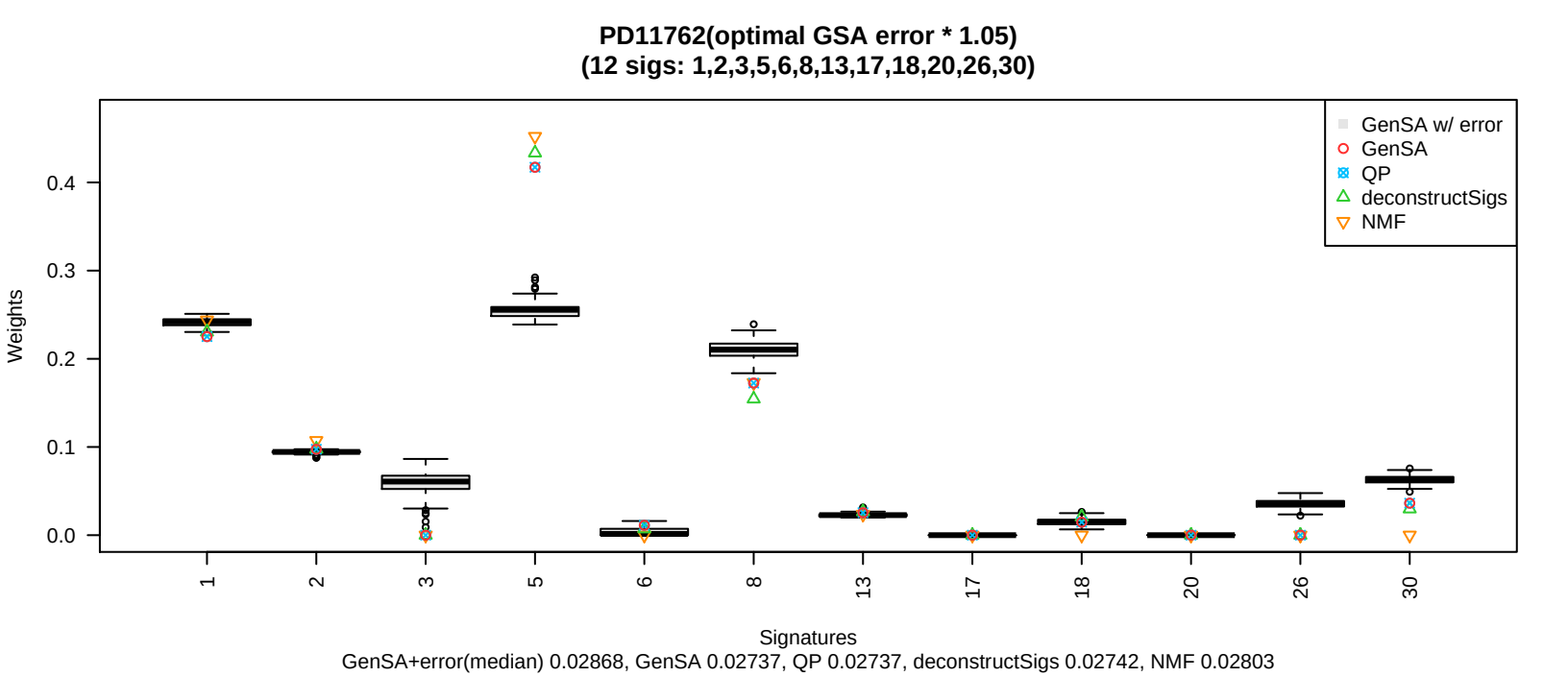


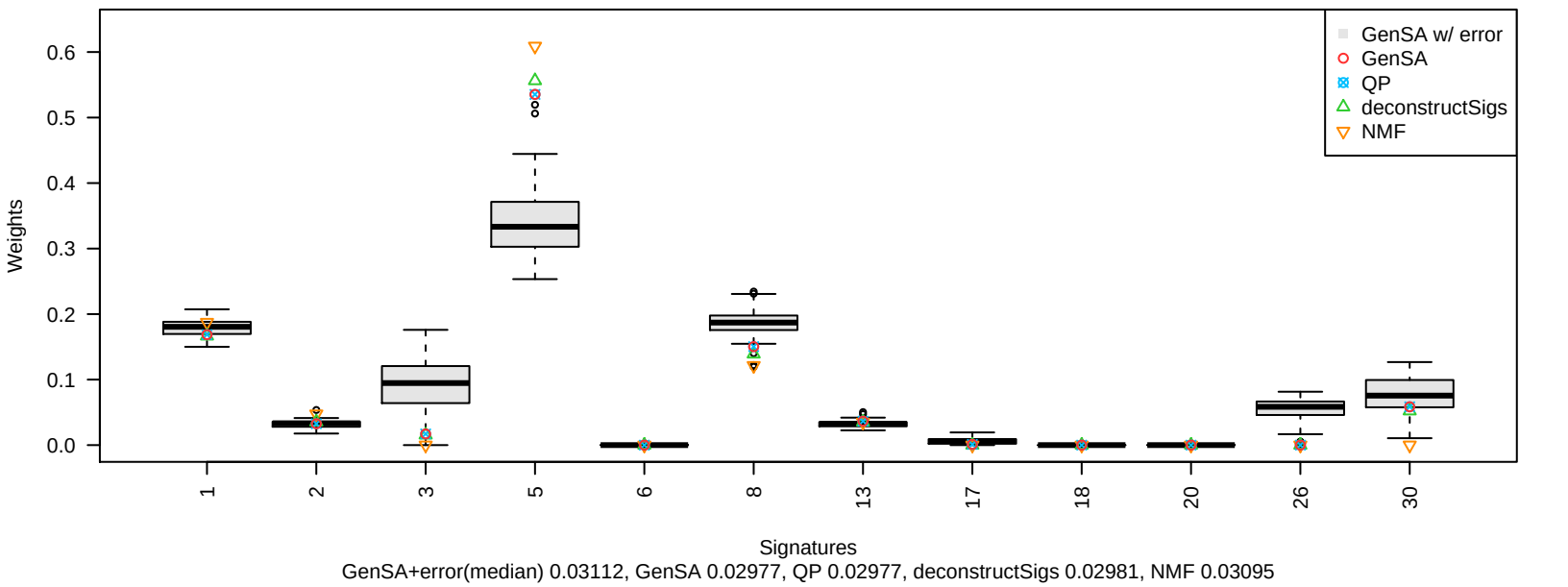
GenSA+error(median) 0.03107, GenSA 0.02983, QP 0.02983, deconstructSigs 0.02985, NMF 0.03070

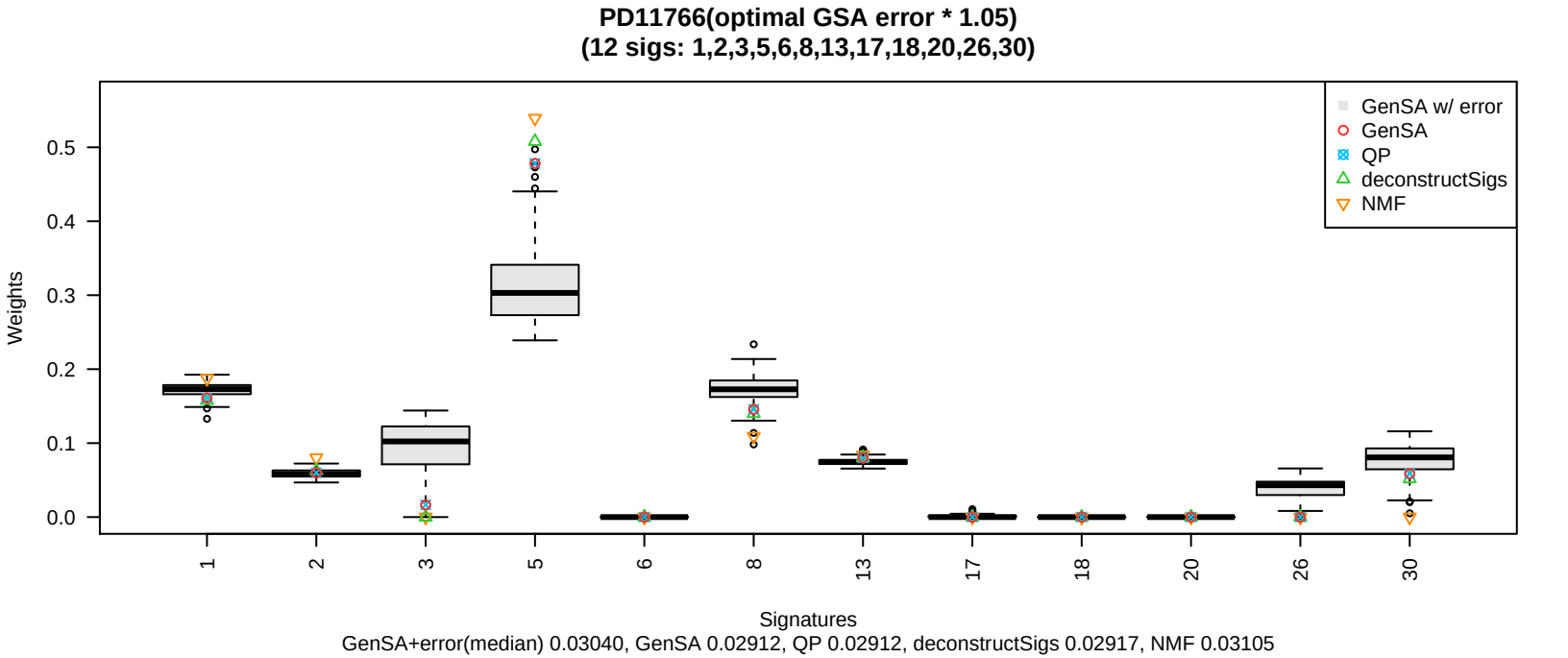

PD11757(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02500, GenSA 0.02391, QP 0.02391, deconstructSigs 0.02409, NMF 0.02995

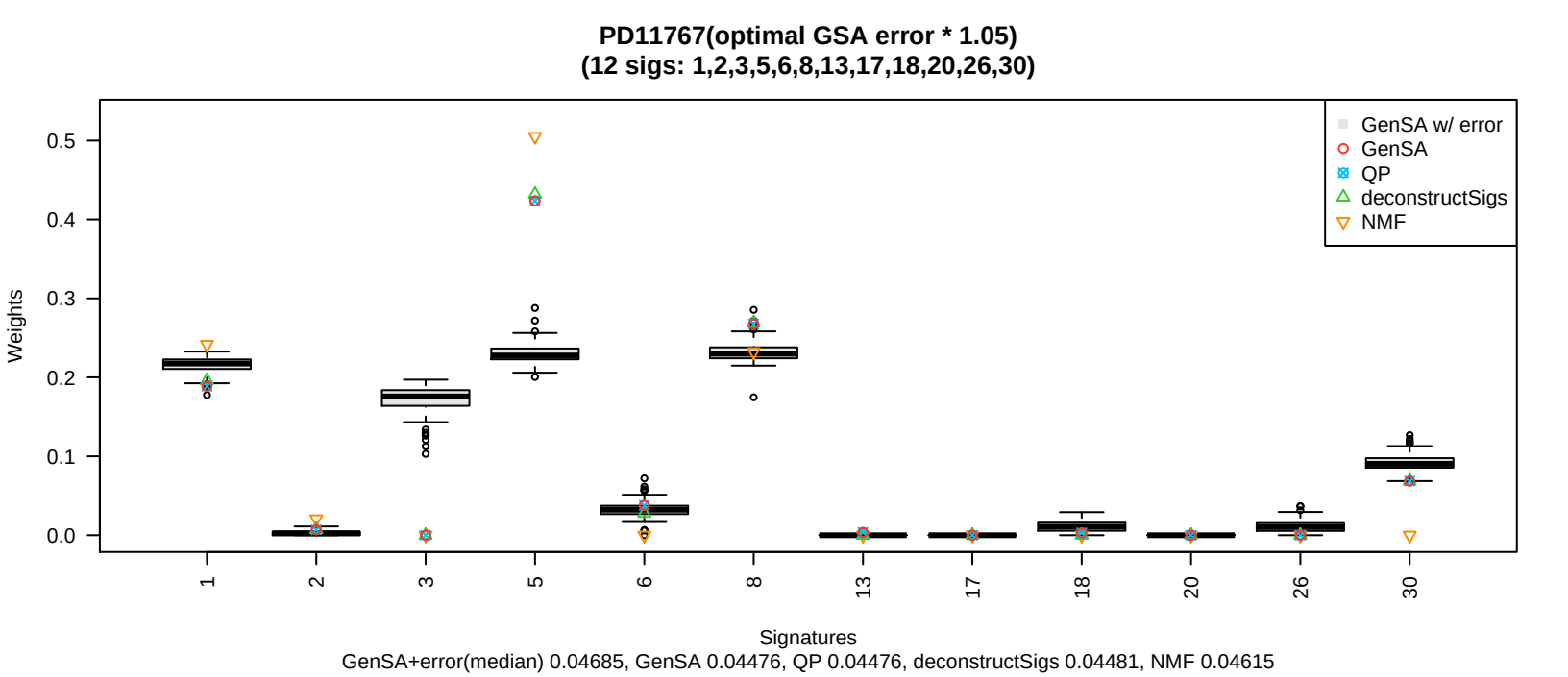

PD11760(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02670, GenSA 0.02568, QP 0.02568, deconstructSigs 0.02574, NMF 0.02749

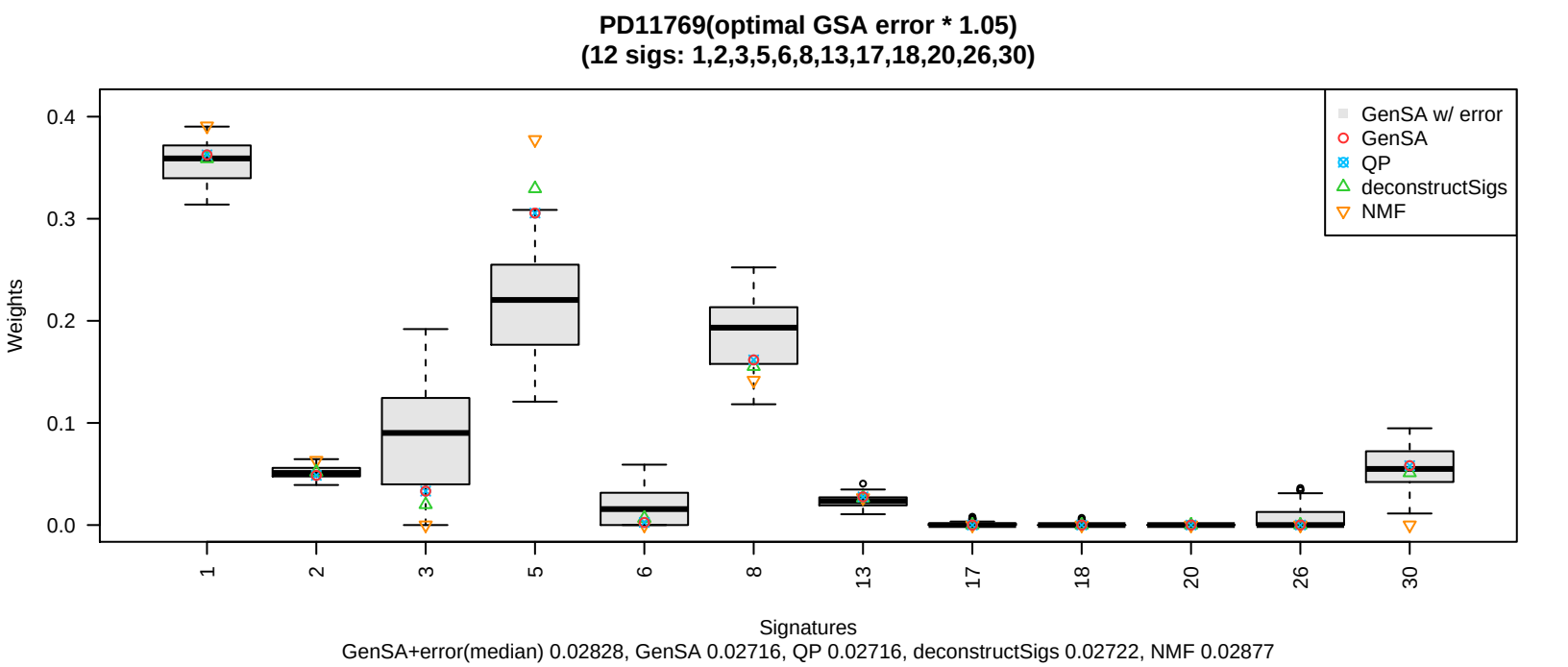

PD11761(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03527, GenSA 0.03362, QP 0.03362, deconstructSigs 0.03374, NMF 0.03579

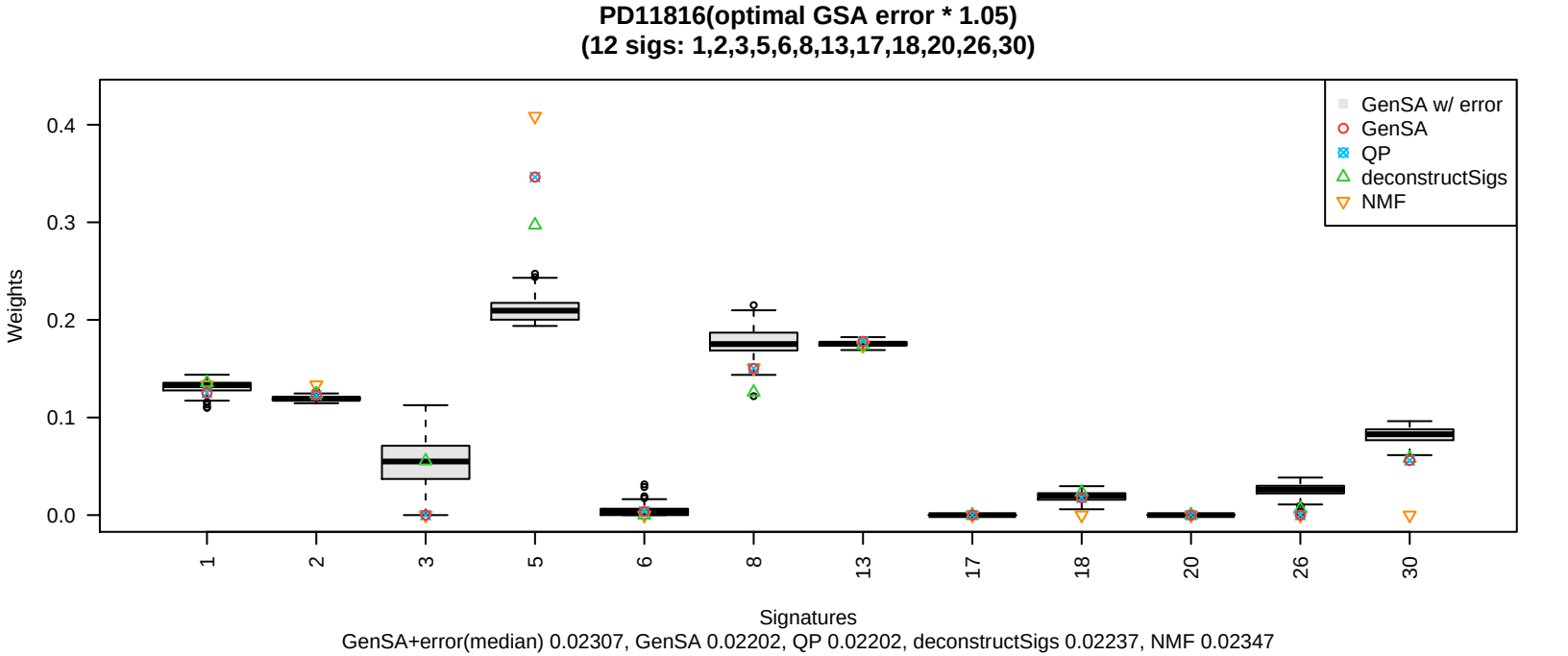

PD11762(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02868, GenSA 0.02737, QP 0.02737, deconstructSigs 0.02742, NMF 0.02803

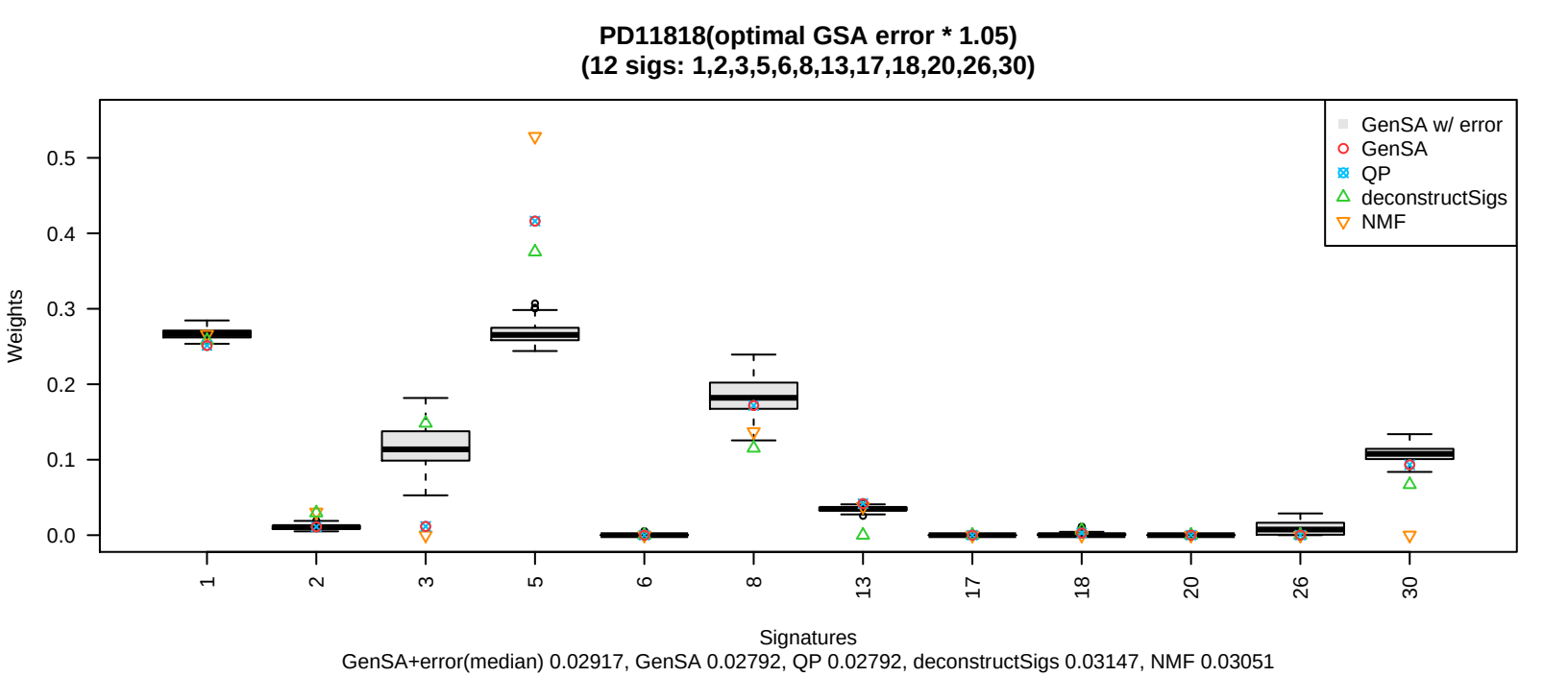

PD11765(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03112, GenSA 0.02977, QP 0.02977, deconstructSigs 0.02981, NMF 0.03095


PD11766(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03040, GenSA 0.02912, QP 0.02912, deconstructSigs 0.02917, NMF 0.03105

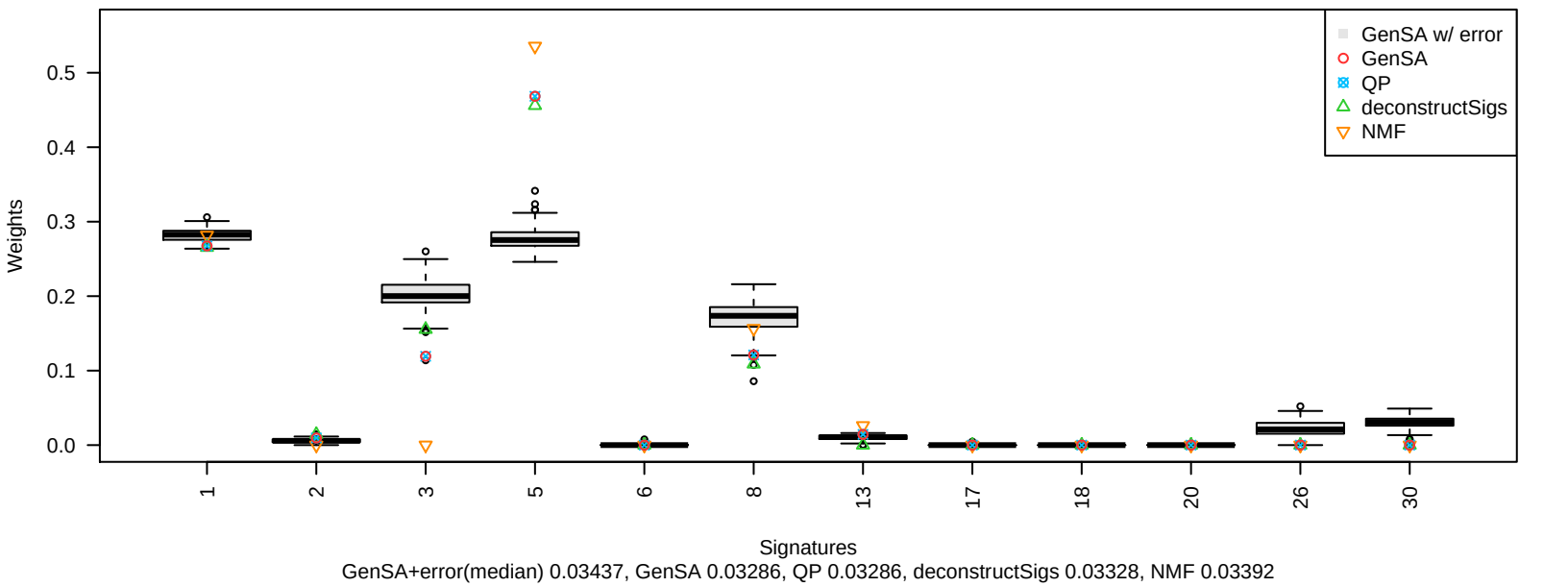

PD11767(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.04685, GenSA 0.04476, QP 0.04476, deconstructSigs 0.04481, NMF 0.04615


PD11769(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02828, GenSA 0.02716, QP 0.02716, deconstructSigs 0.02722, NMF 0.02877

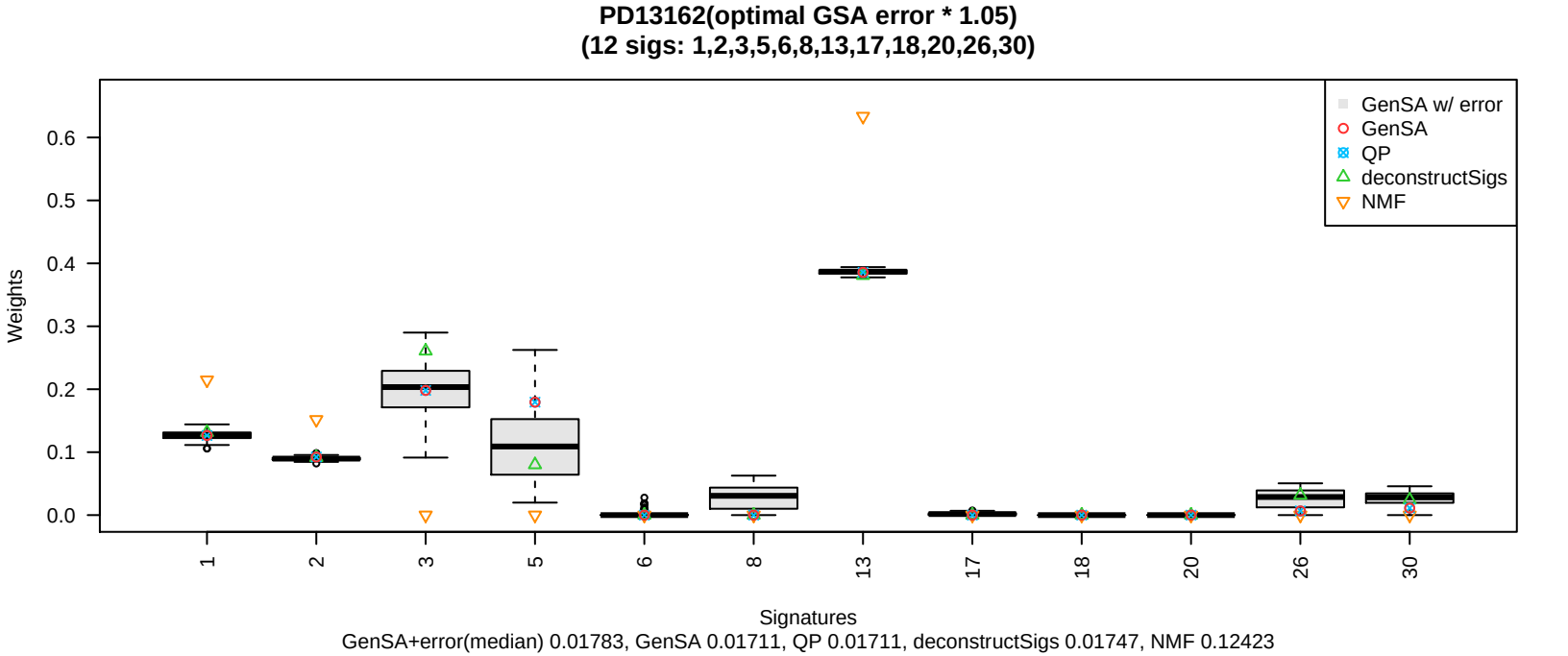

PD11816(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02307, GenSA 0.02202, QP 0.02202, deconstructSigs 0.02237, NMF 0.02347



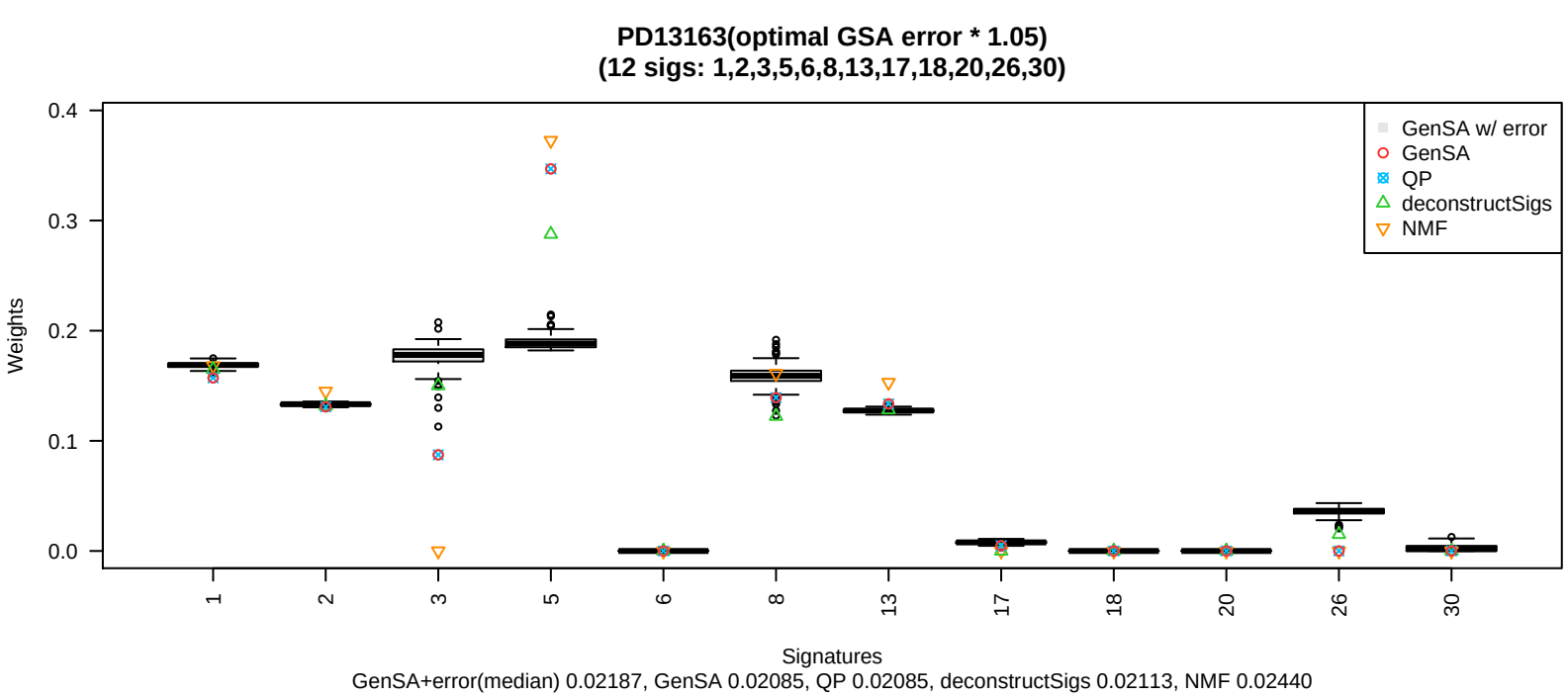
GenSA+error(median) 0.02917, GenSA 0.02792, QP 0.02792, deconstructSigs 0.03147, NMF 0.03051

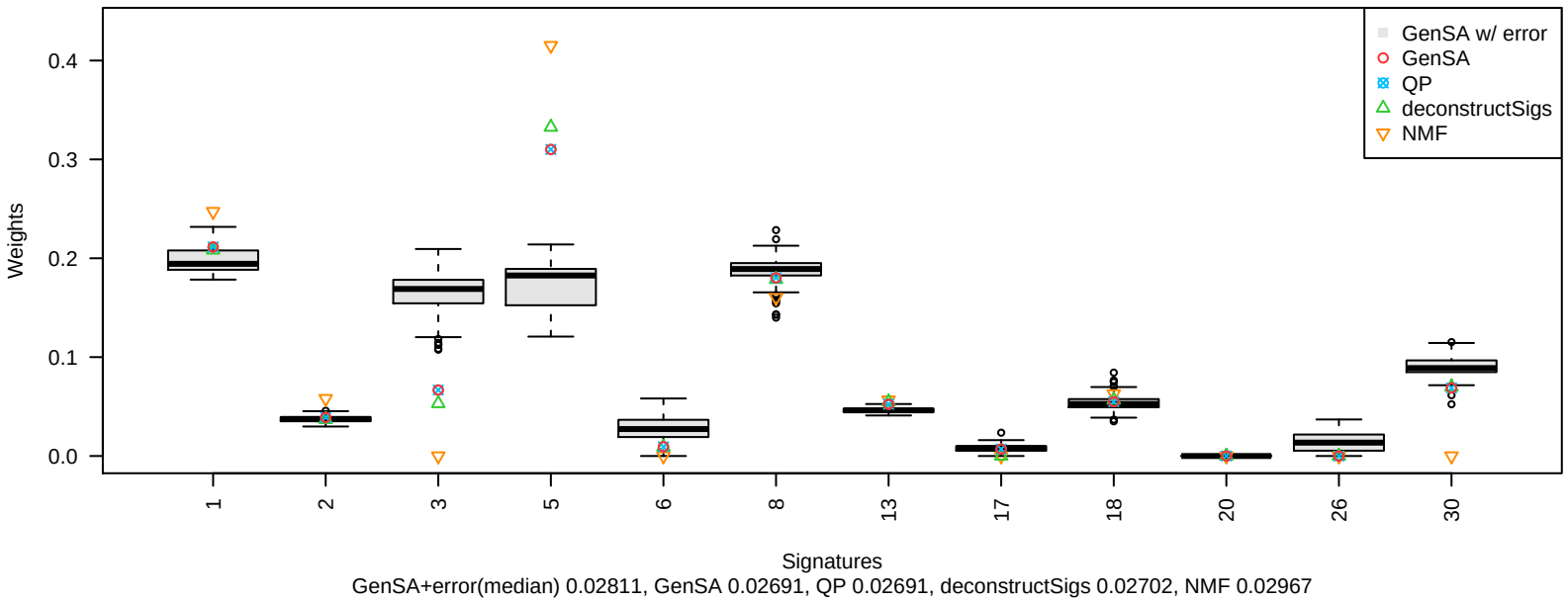


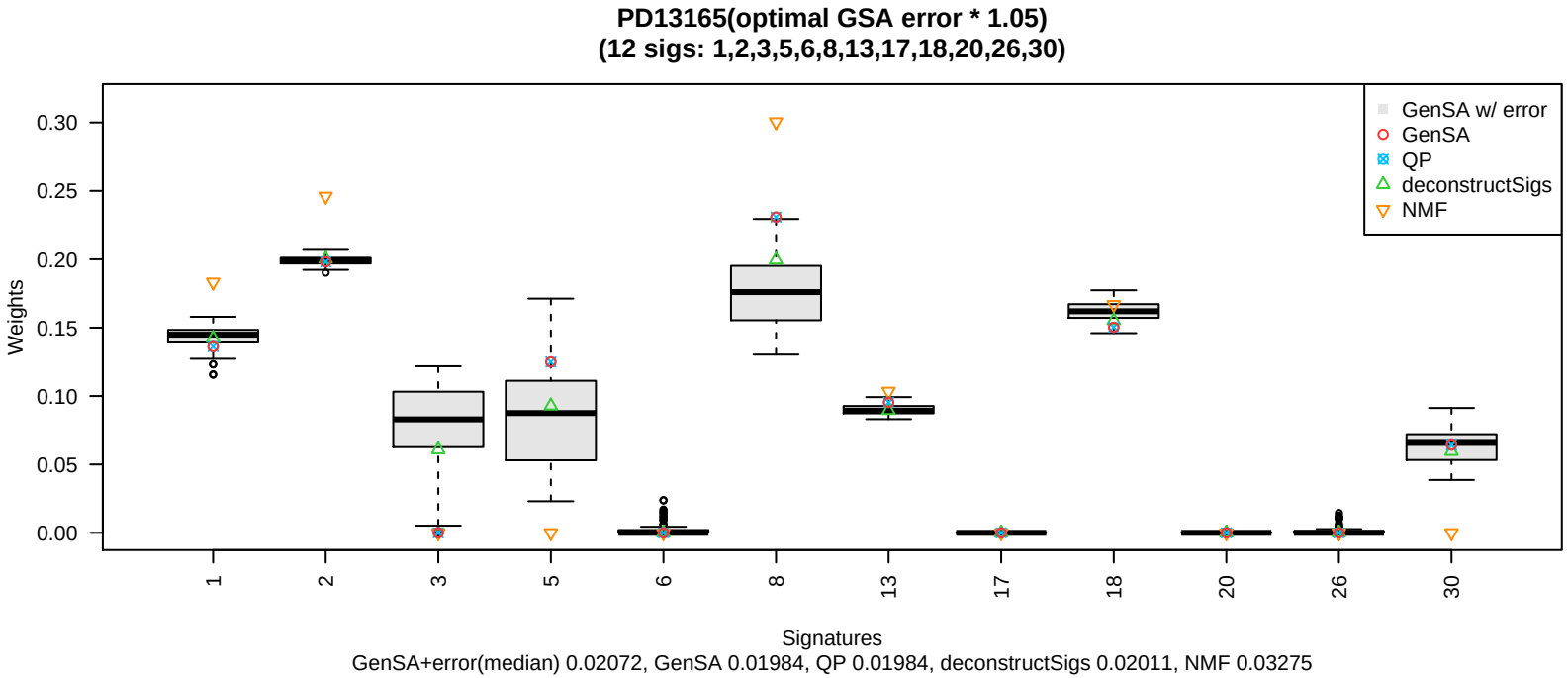
GenSA+error(median) 0.03437, GenSA 0.03286, QP 0.03286, deconstructSigs 0.03328, NMF 0.03392

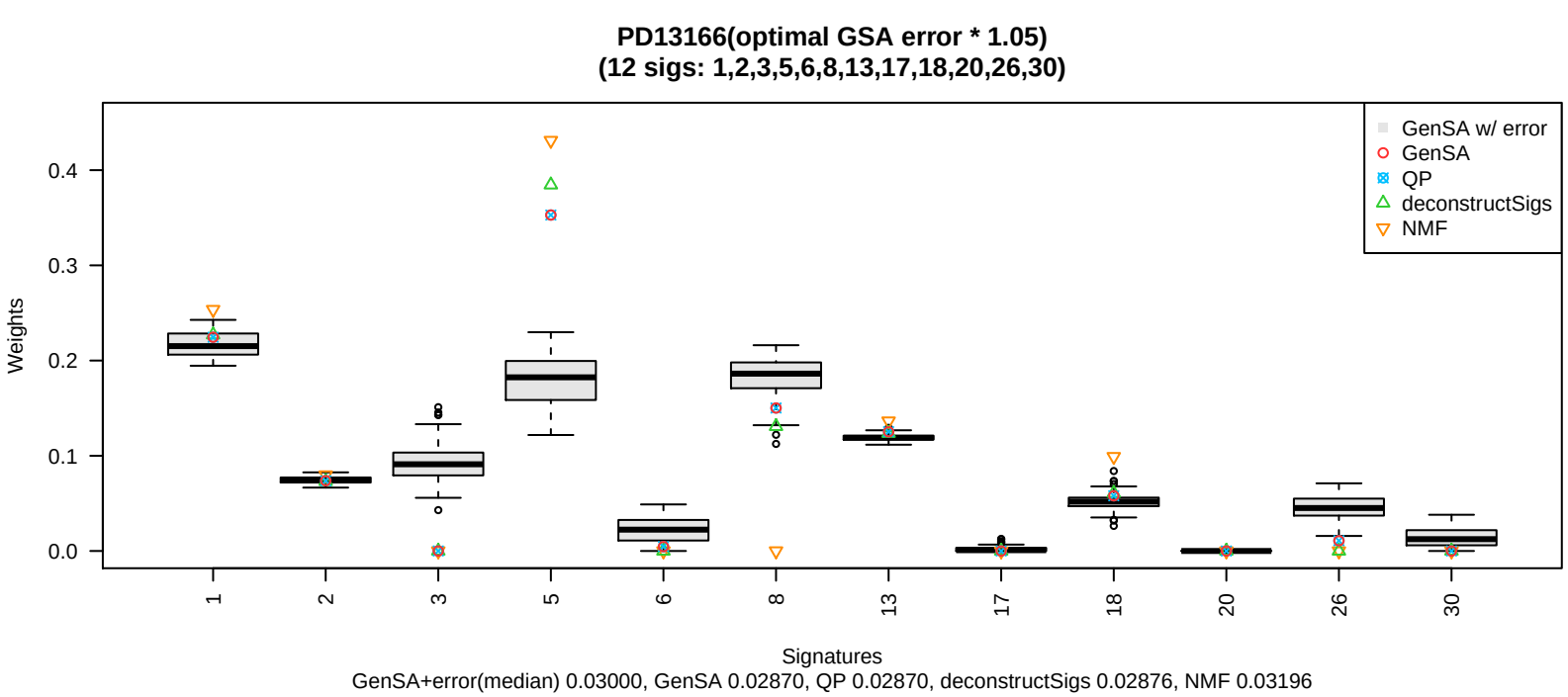


GenSA+error(median) 0.01783, GenSA 0.01711, QP 0.01711, deconstructSigs 0.01747, NMF 0.12423

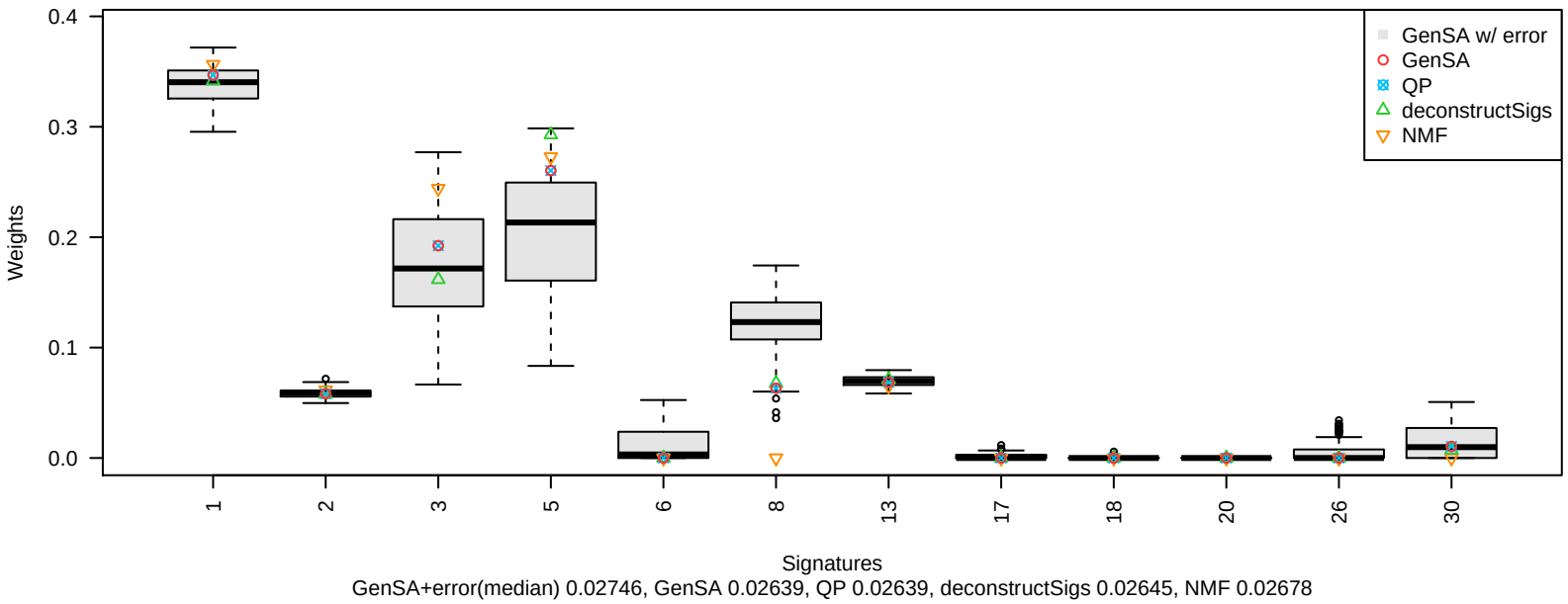

PD13163(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02187, GenSA 0.02085, QP 0.02085, deconstructSigs 0.02113, NMF 0.02440


PD13164(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02811, GenSA 0.02691, QP 0.02691, deconstructSigs 0.02702, NMF 0.02967

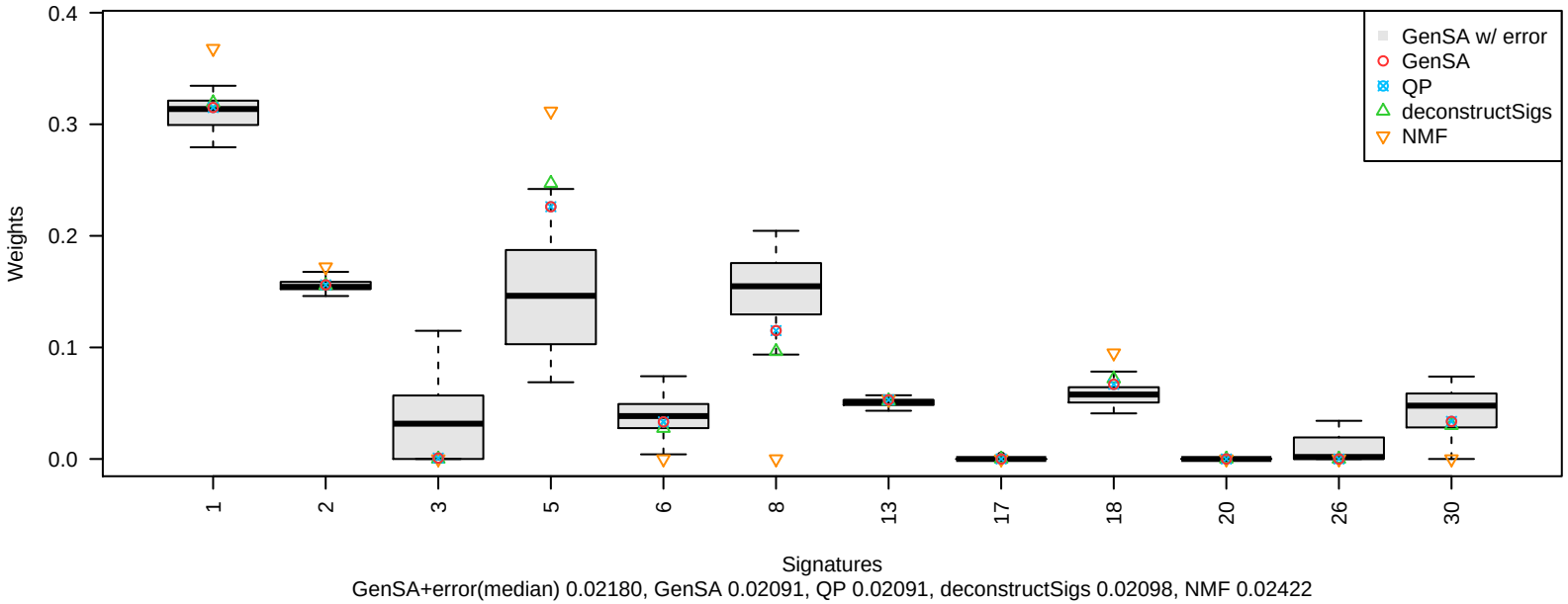

PD13165(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.00
0.05
0.10
0.15
0.20
0.25
0.30
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02072, GenSA 0.01984, QP 0.01984, deconstructSigs 0.02011, NMF 0.03275



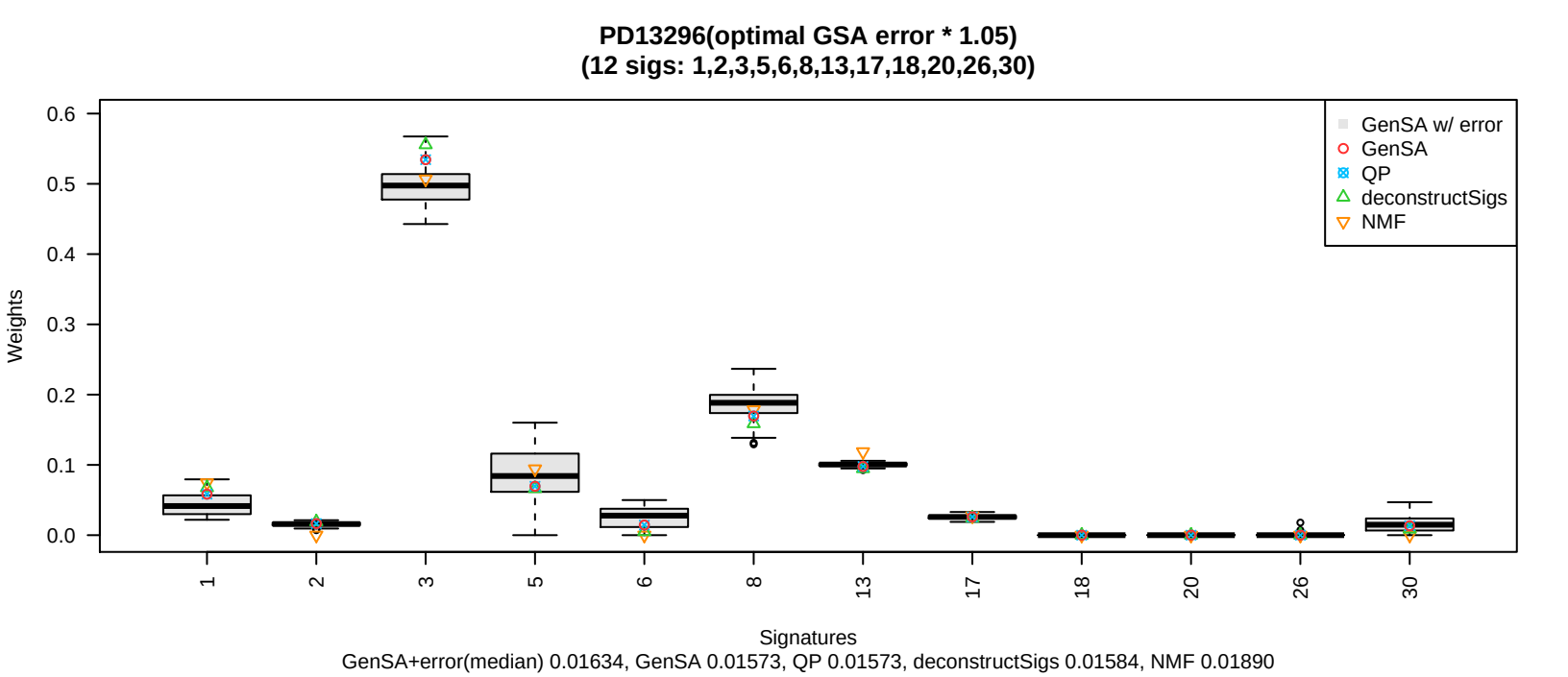
GenSA+error(median) 0.03000, GenSA 0.02870, QP 0.02870, deconstructSigs 0.02876, NMF 0.03196

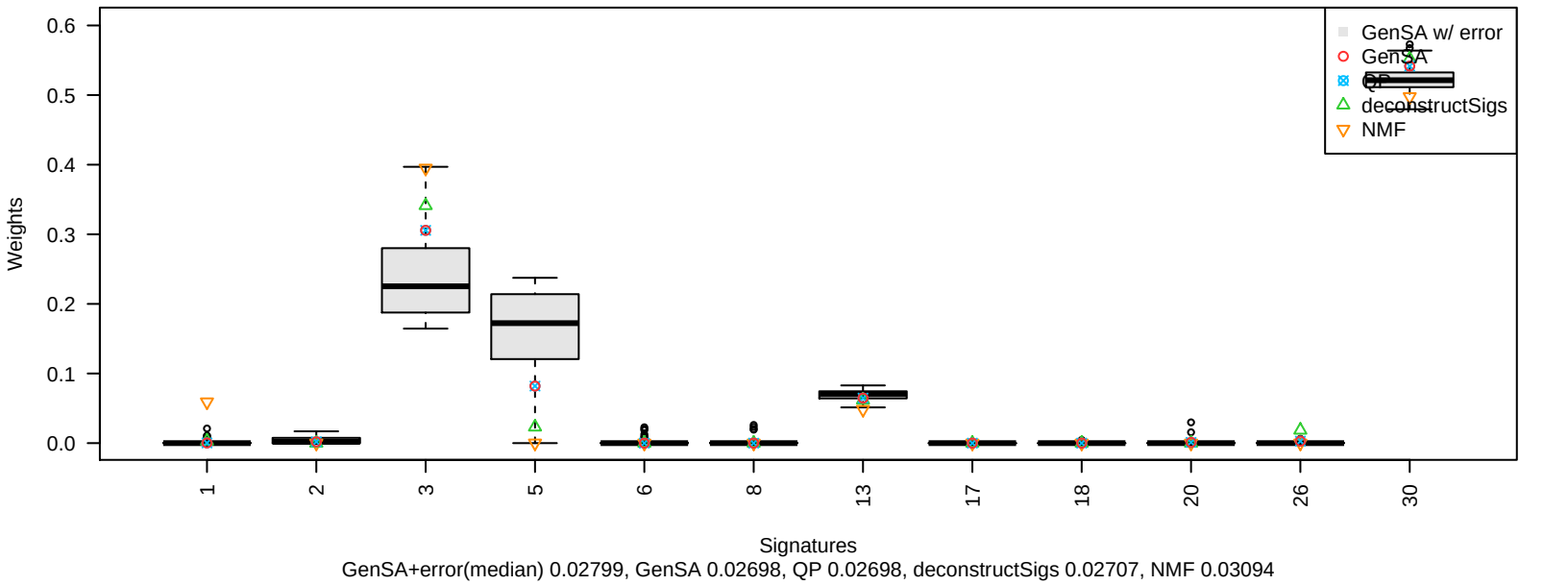


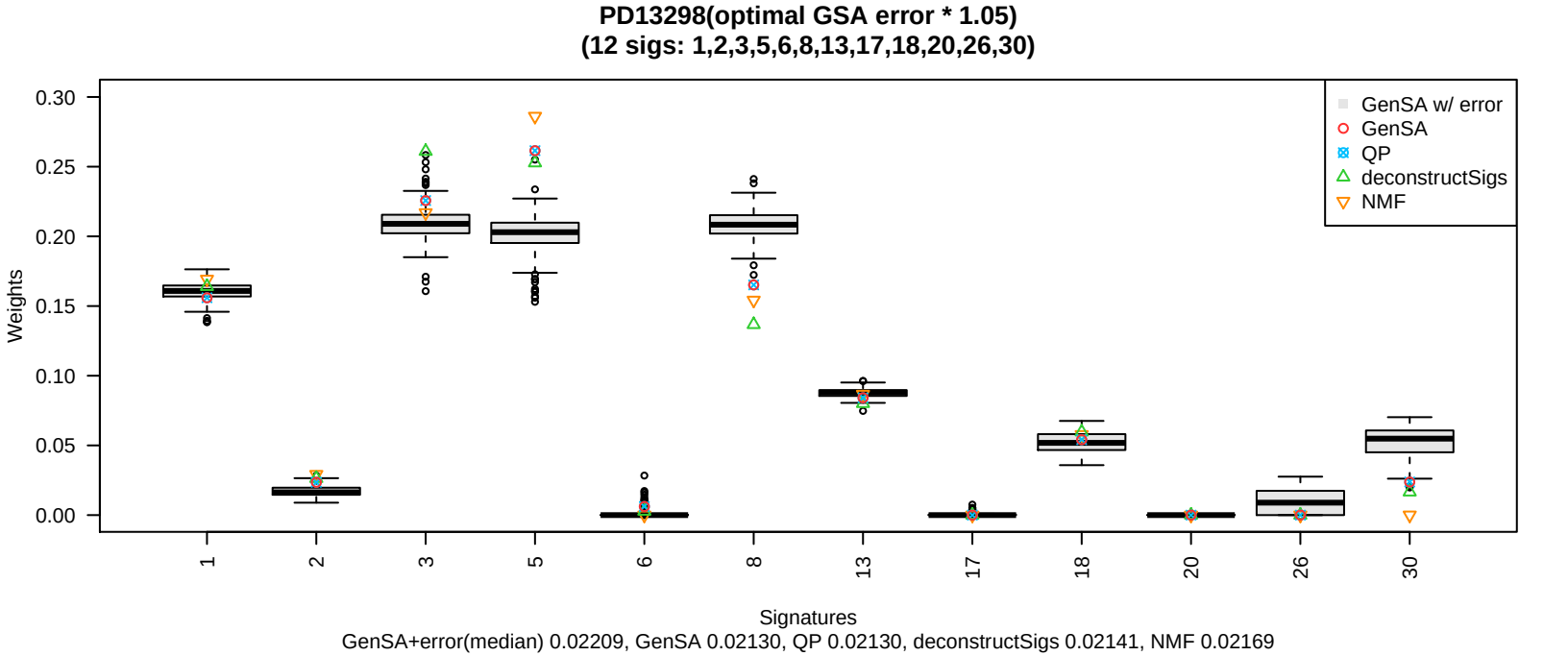
GenSA+error(median) 0.02746, GenSA 0.02639, QP 0.02639, deconstructSigs 0.02645, NMF 0.02678

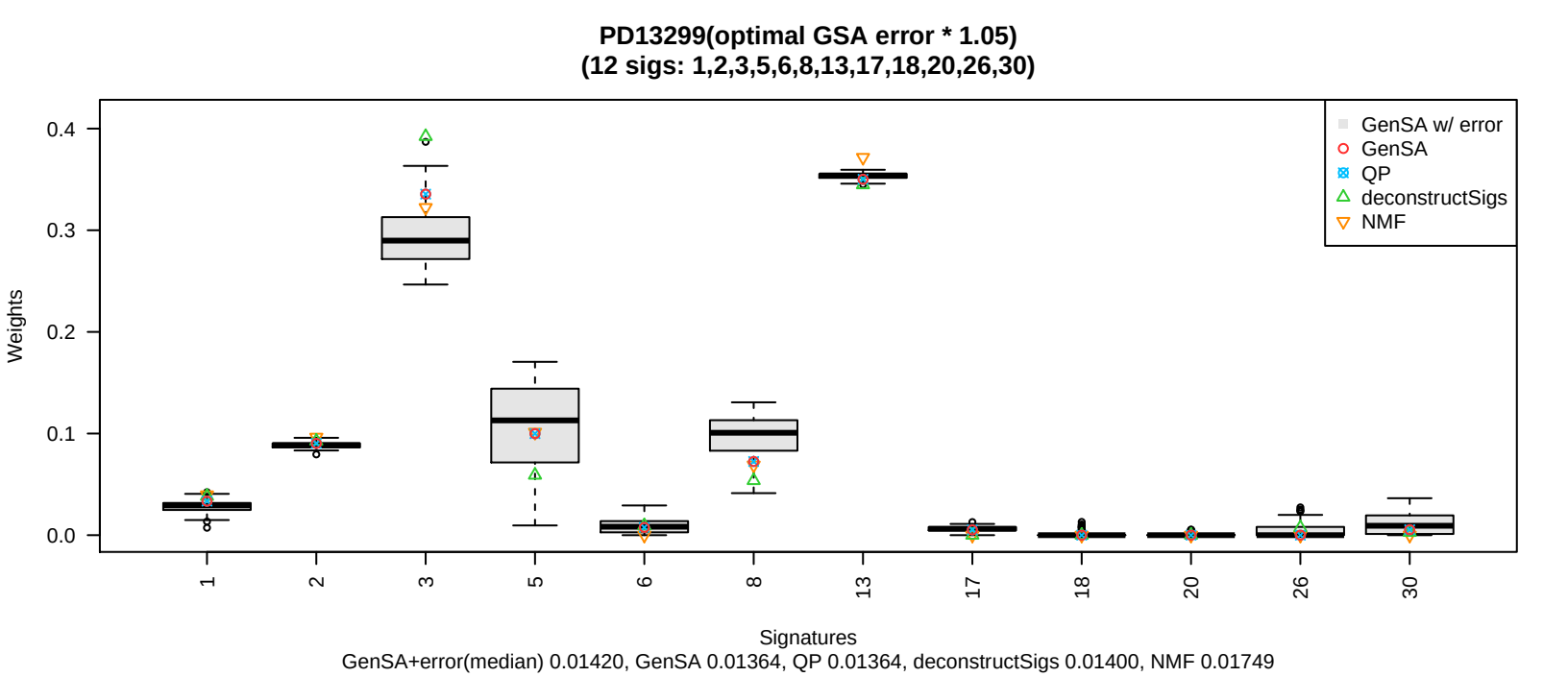


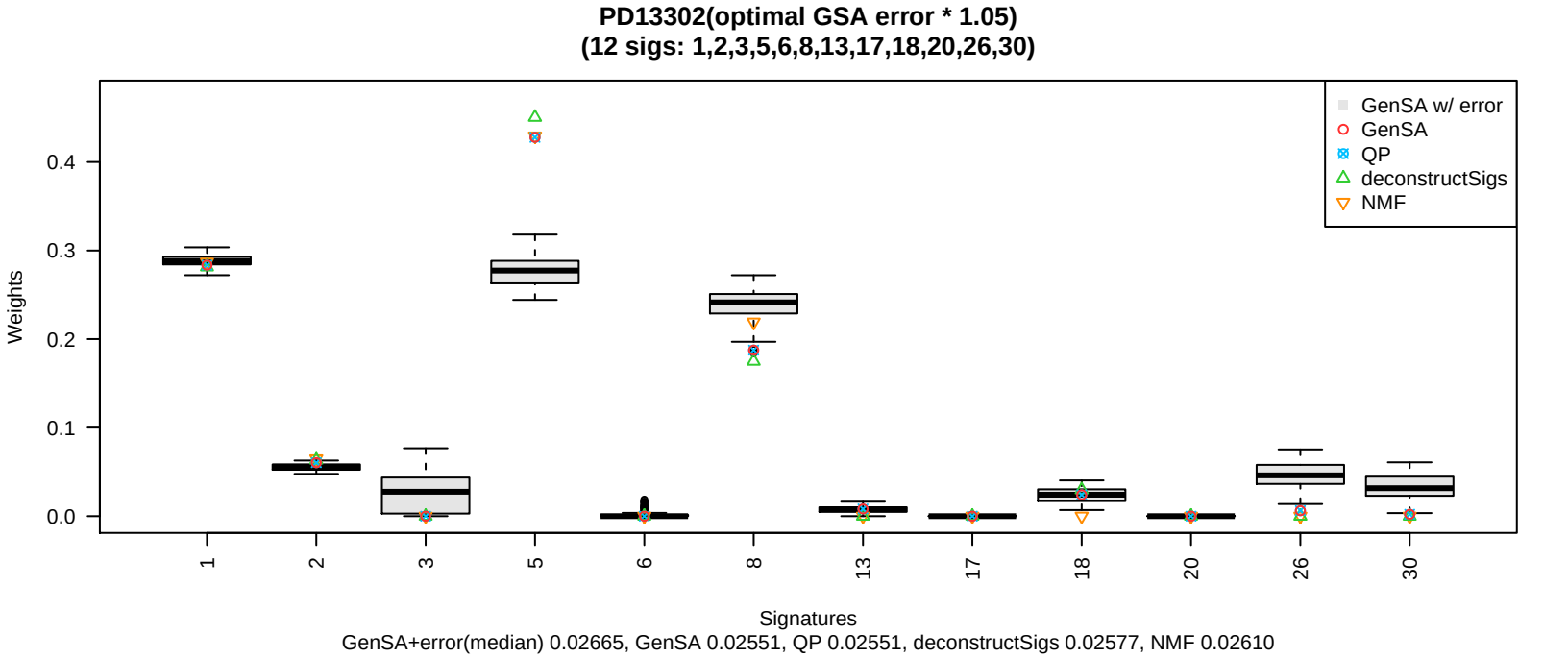
GenSA+error(median) 0.02180, GenSA 0.02091, QP 0.02091, deconstructSigs 0.02098, NMF 0.02422

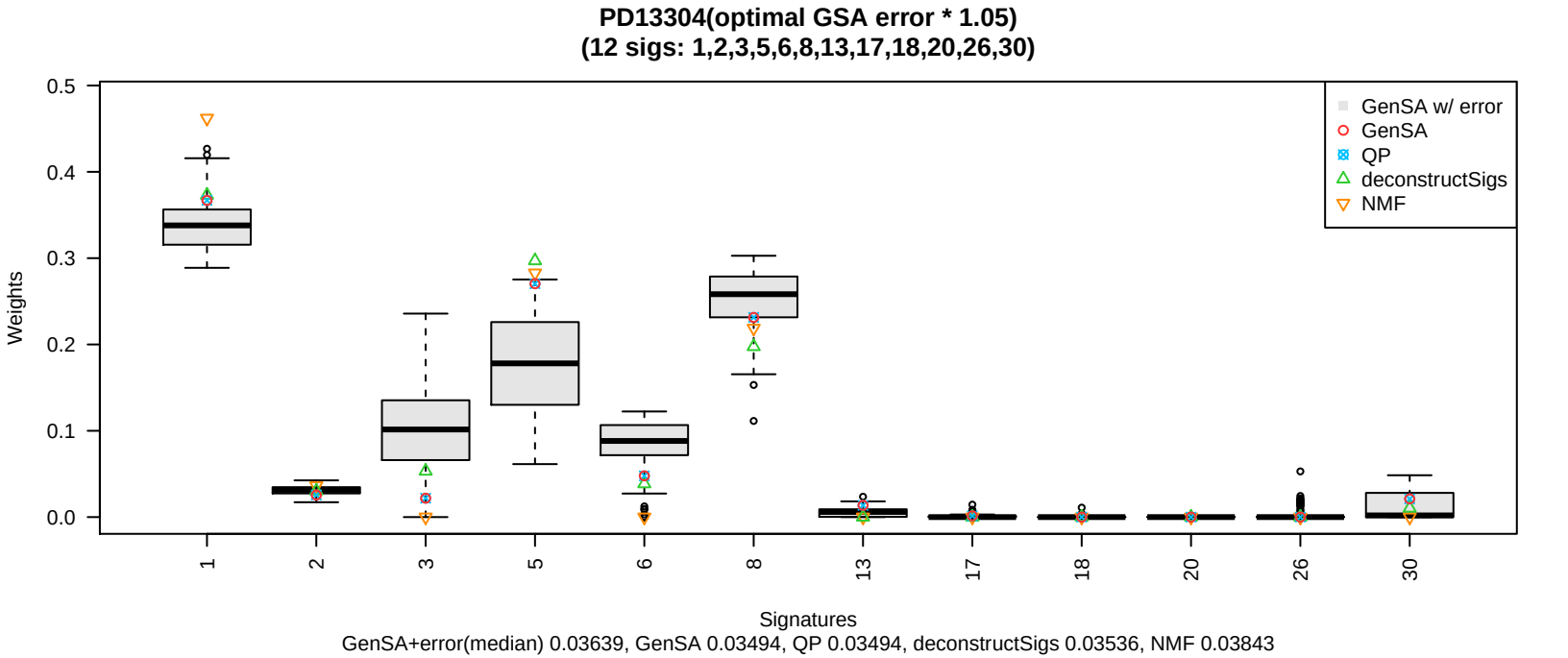

PD13296(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01634, GenSA 0.01573, QP 0.01573, deconstructSigs 0.01584, NMF 0.01890

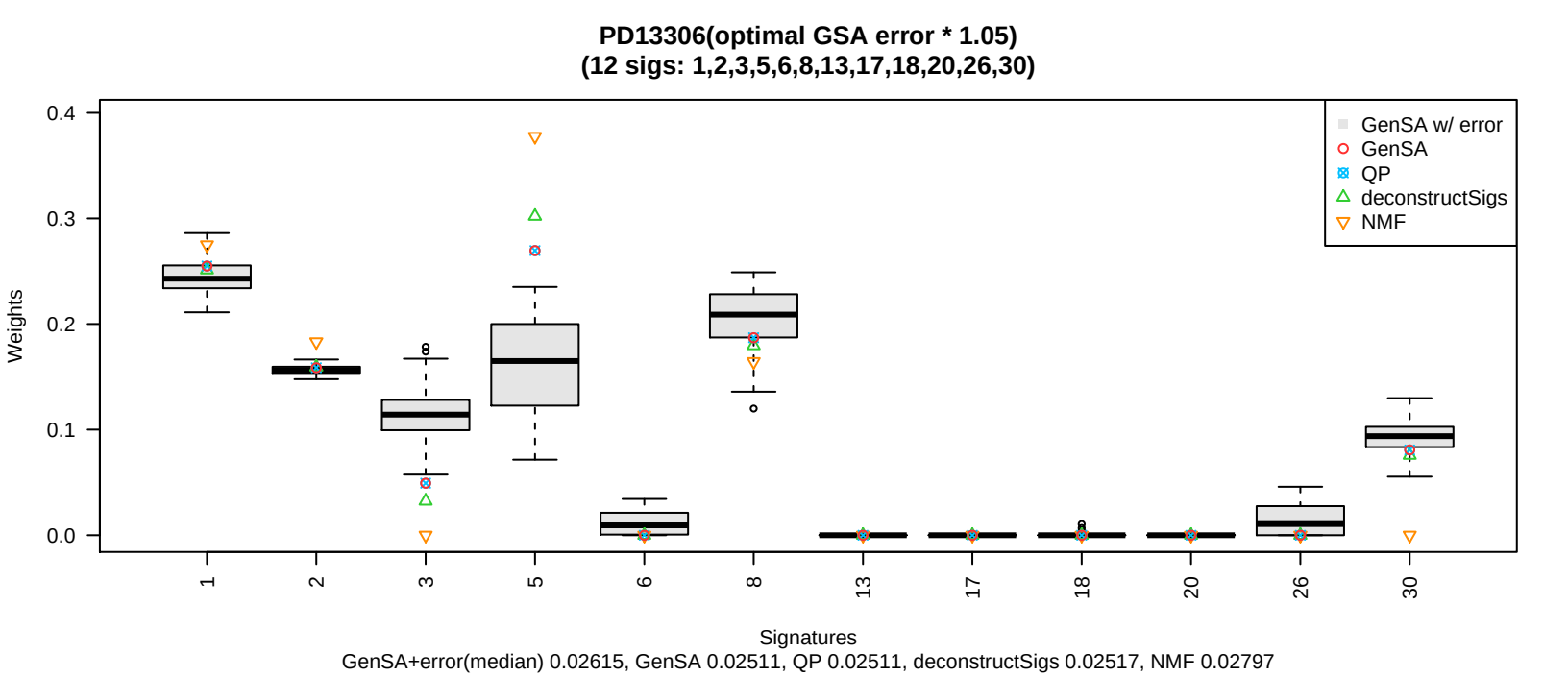

PD13297(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02799, GenSA 0.02698, QP 0.02698, deconstructSigs 0.02707, NMF 0.03094


PD13298(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.00
0.05
0.10
0.15
0.20
0.25
0.30
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02209, GenSA 0.02130, QP 0.02130, deconstructSigs 0.02141, NMF 0.02169

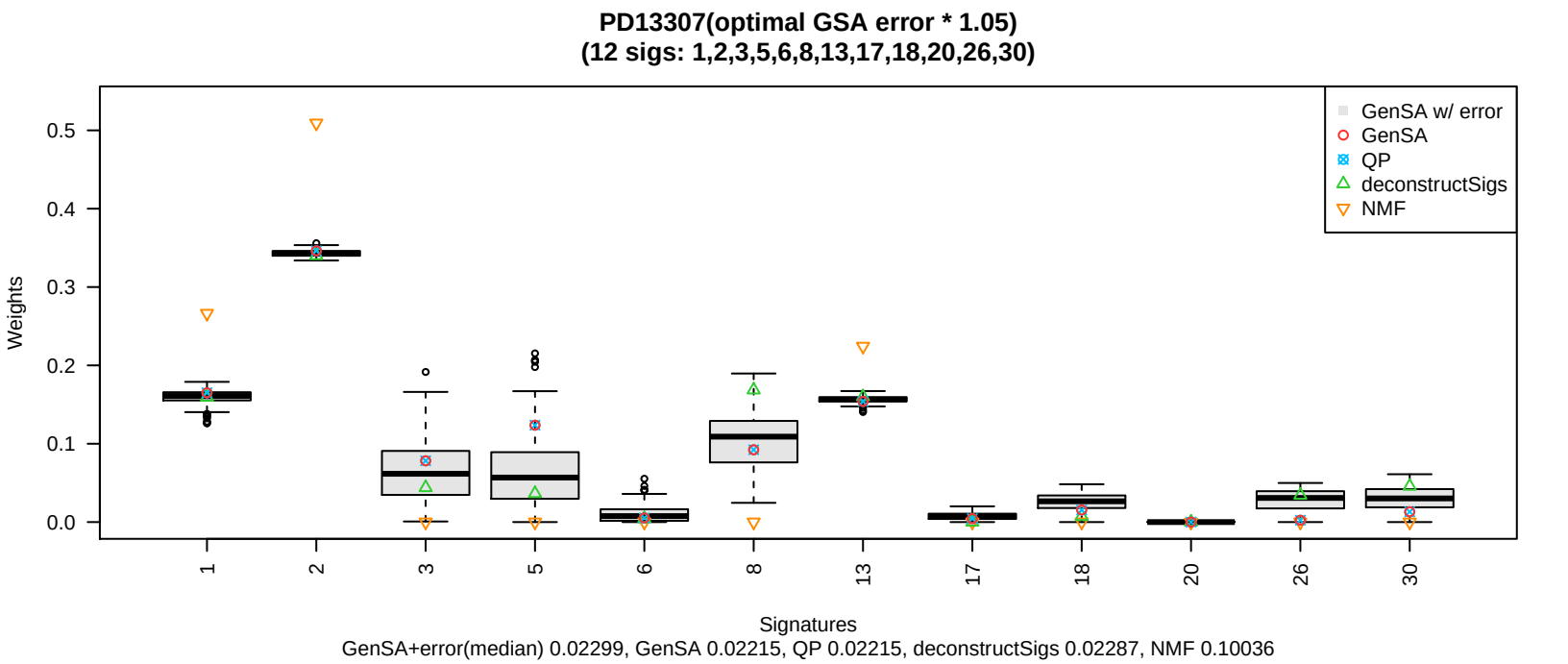

PD13299(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01420, GenSA 0.01364, QP 0.01364, deconstructSigs 0.01400, NMF 0.01749


PD13302(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02665, GenSA 0.02551, QP 0.02551, deconstructSigs 0.02577, NMF 0.02610

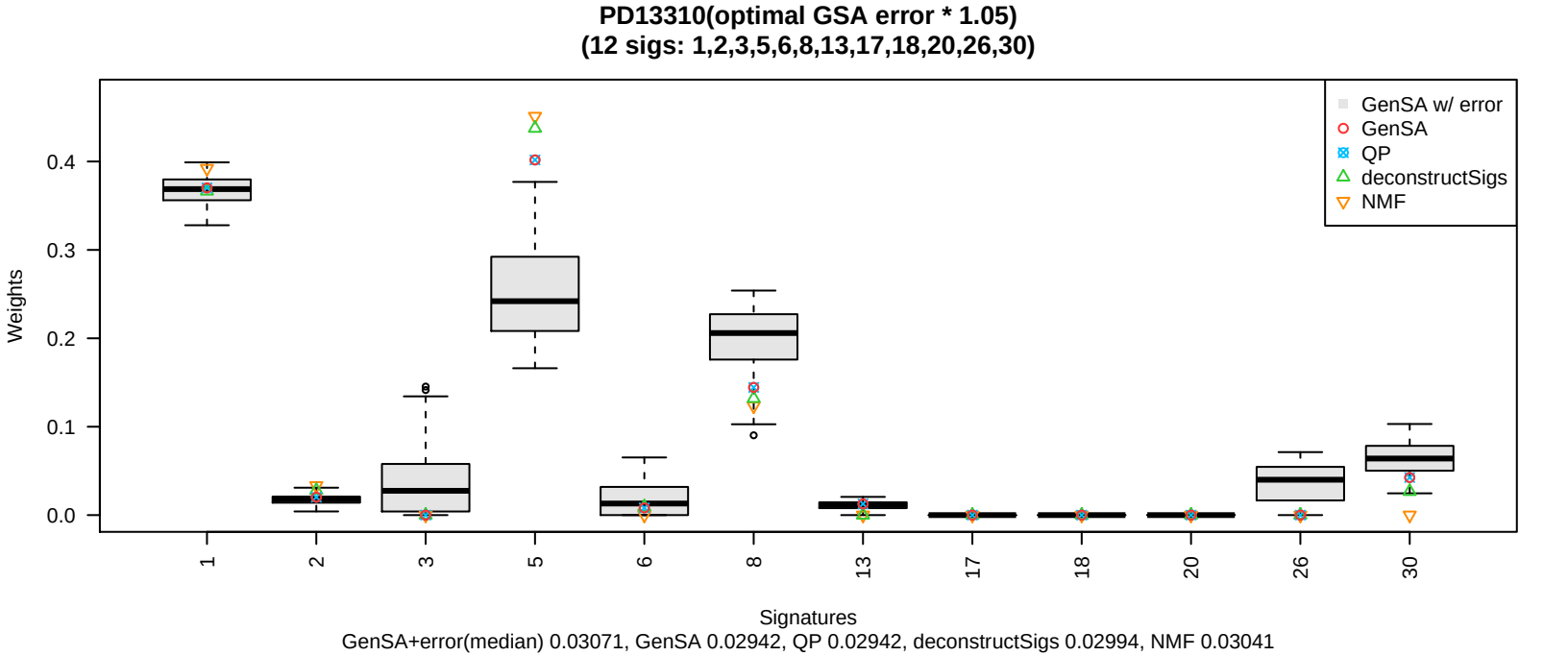

PD13304(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03639, GenSA 0.03494, QP 0.03494, deconstructSigs 0.03536, NMF 0.03843



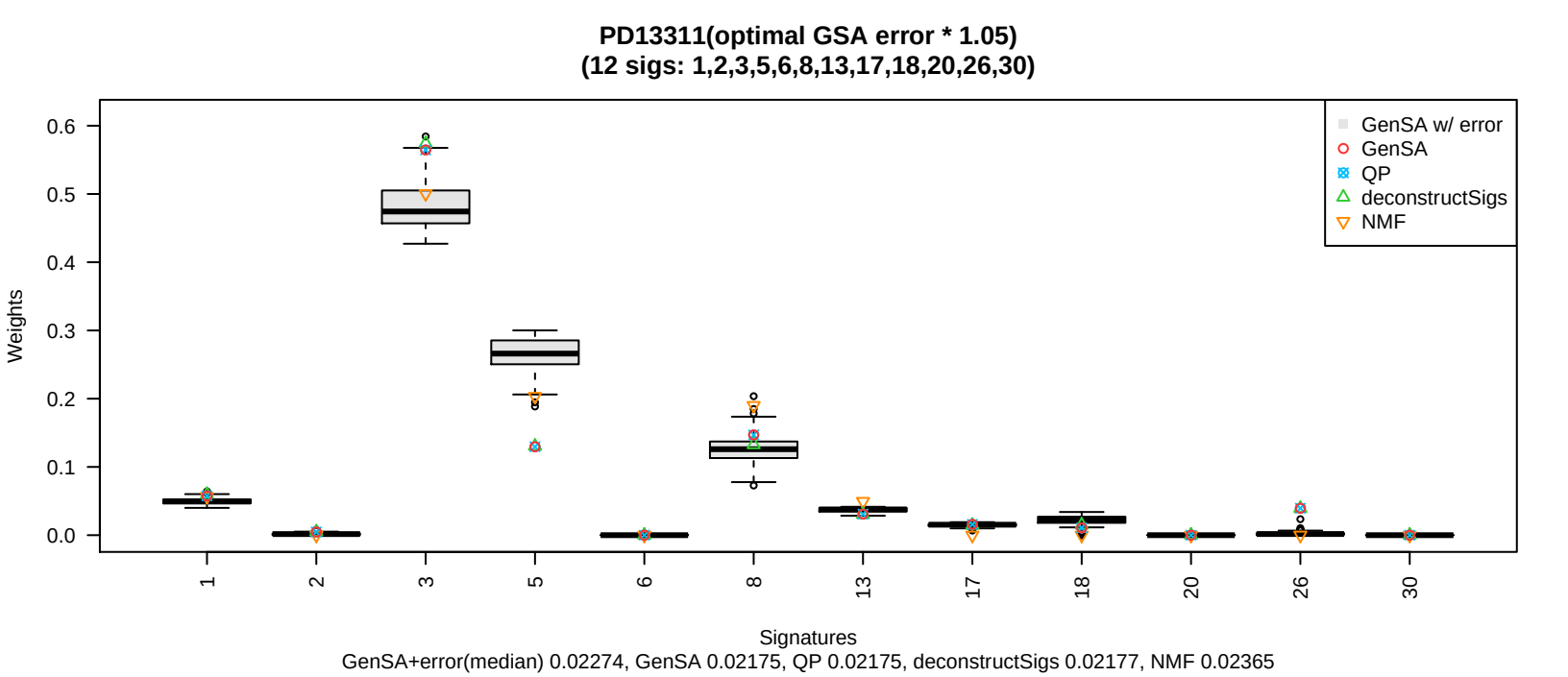
GenSA+error(median) 0.02615, GenSA 0.02511, QP 0.02511, deconstructSigs 0.02517, NMF 0.02797

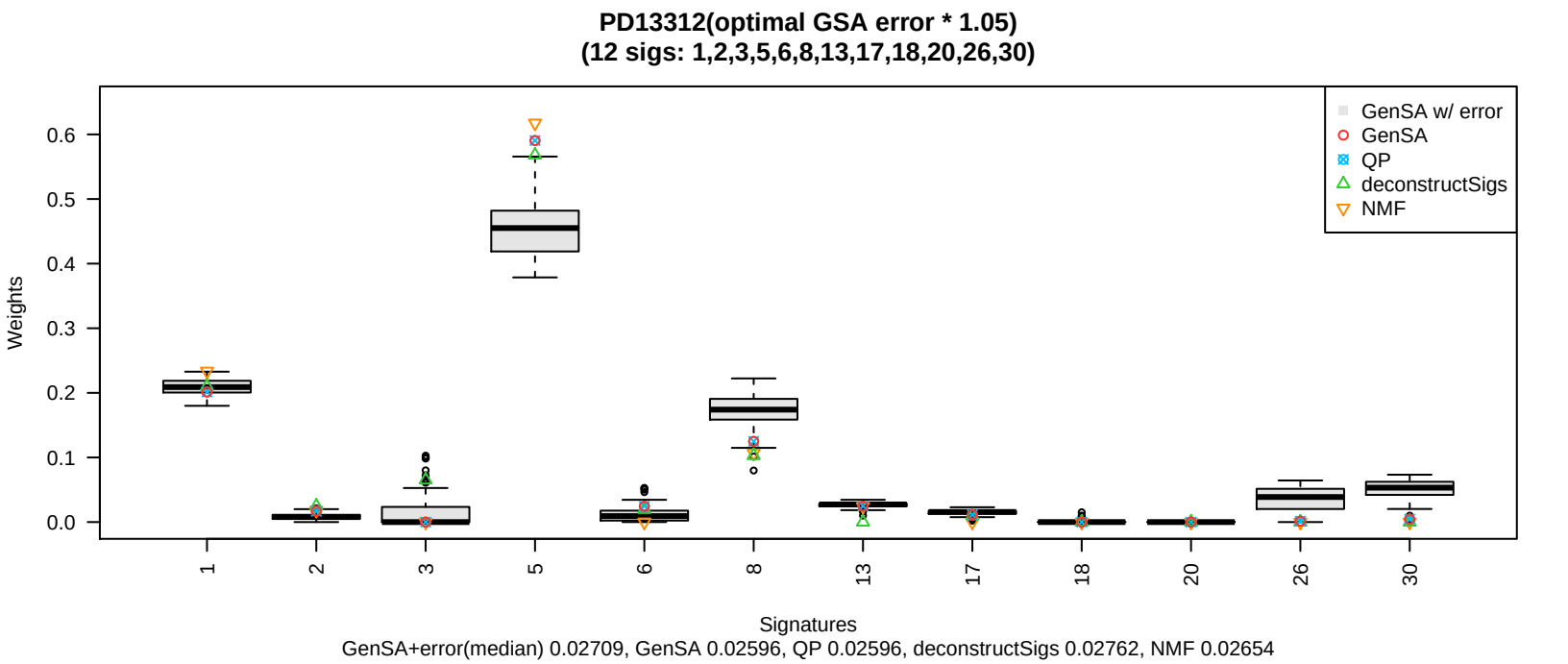


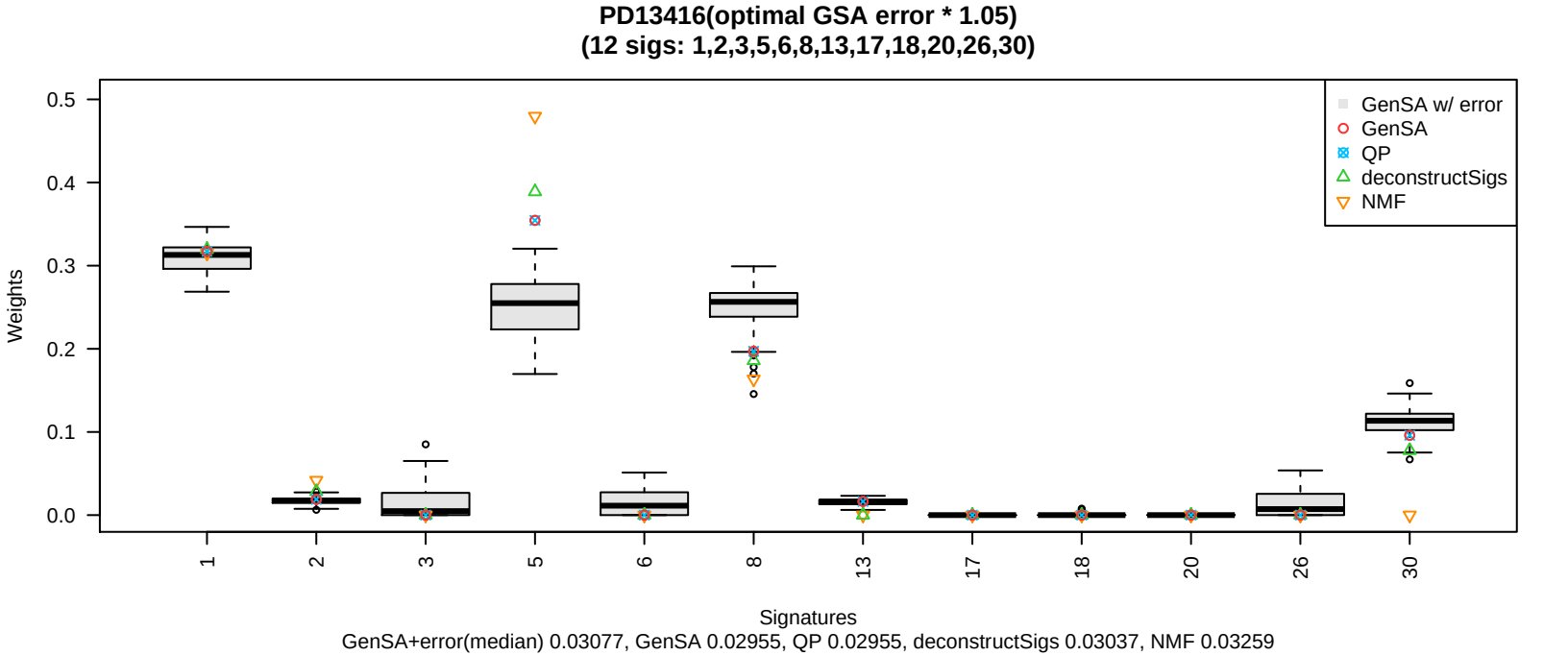
GenSA+error(median) 0.02299, GenSA 0.02215, QP 0.02215, deconstructSigs 0.02287, NMF 0.10036

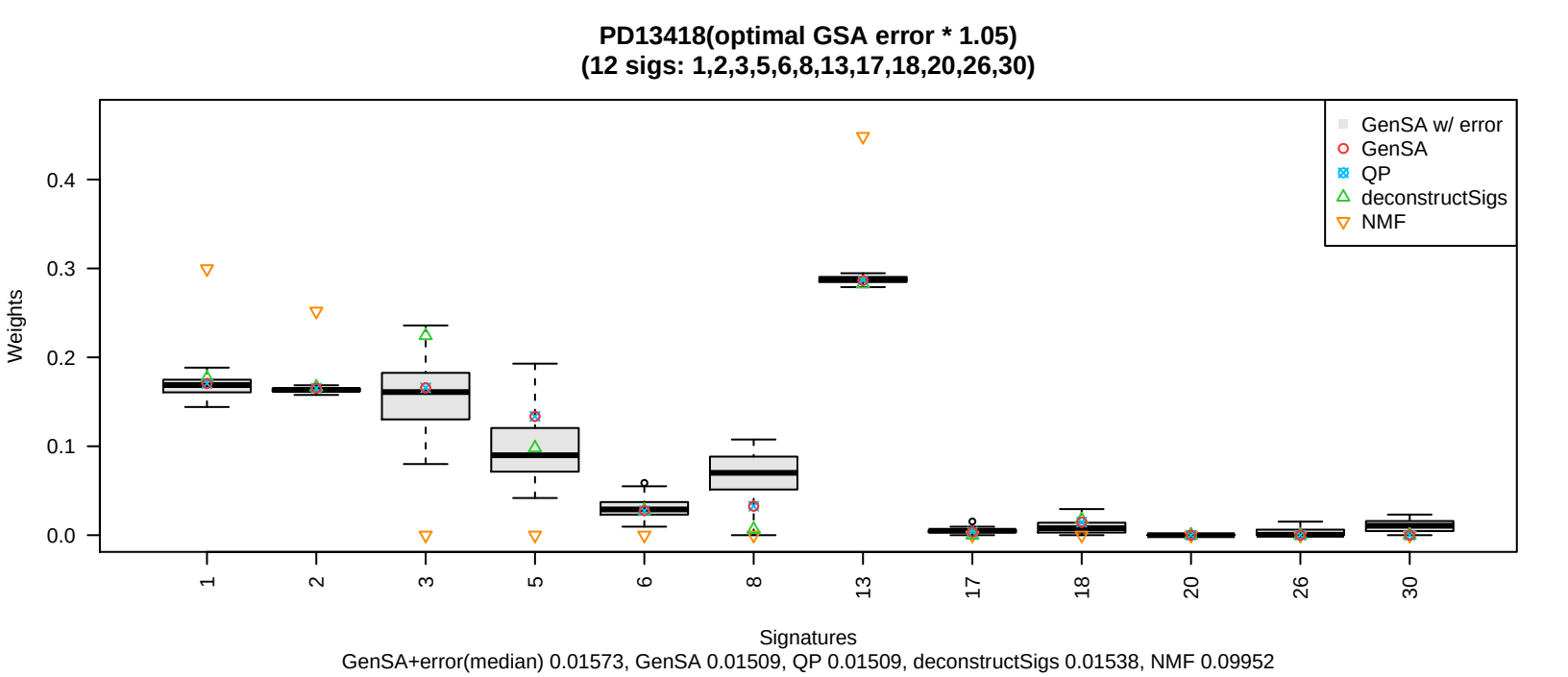


GenSA+error(median) 0.03071, GenSA 0.02942, QP 0.02942, deconstructSigs 0.02994, NMF 0.03041

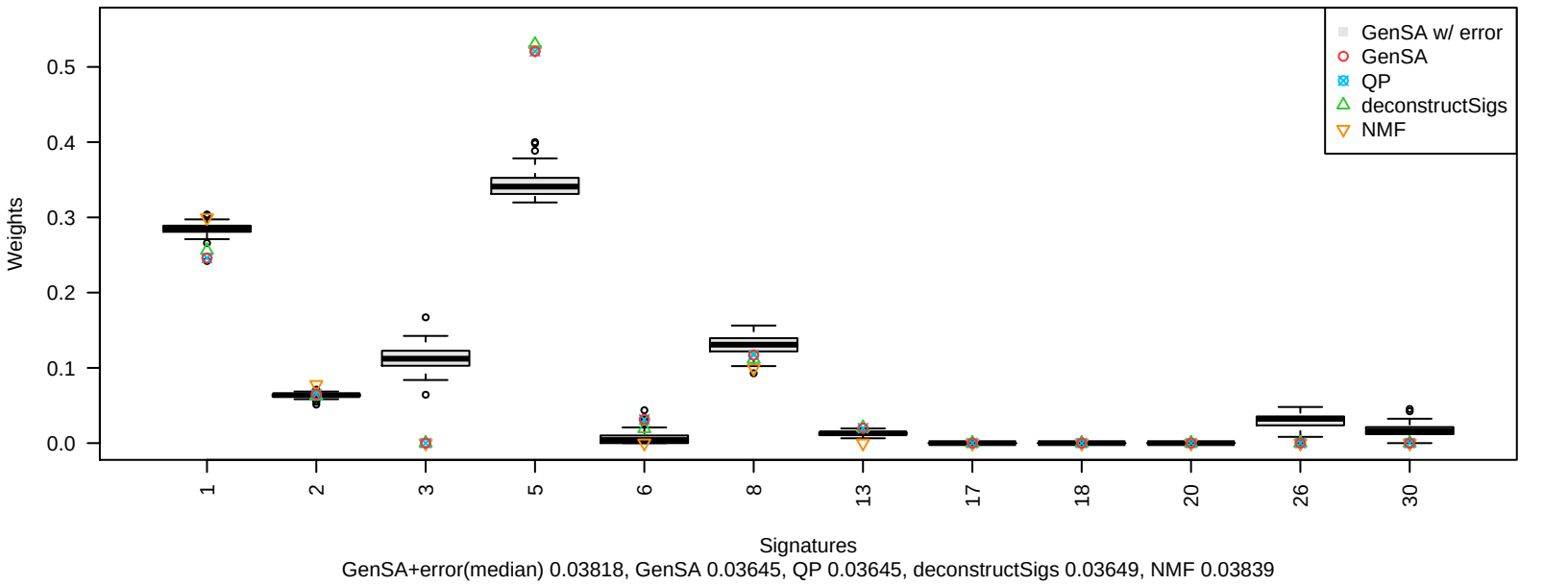

PD13311(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02274, GenSA 0.02175, QP 0.02175, deconstructSigs 0.02177, NMF 0.02365


PD13312(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02709, GenSA 0.02596, QP 0.02596, deconstructSigs 0.02762, NMF 0.02654

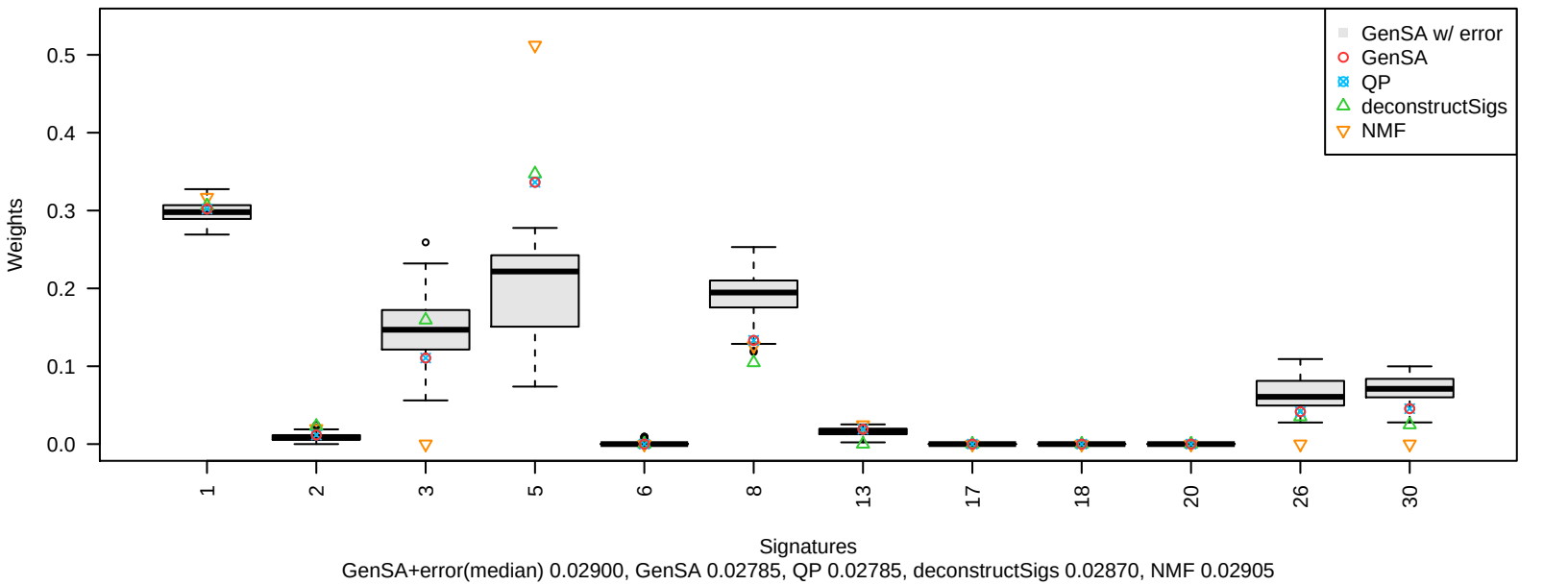

PD13416(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03077, GenSA 0.02955, QP 0.02955, deconstructSigs 0.03037, NMF 0.03259



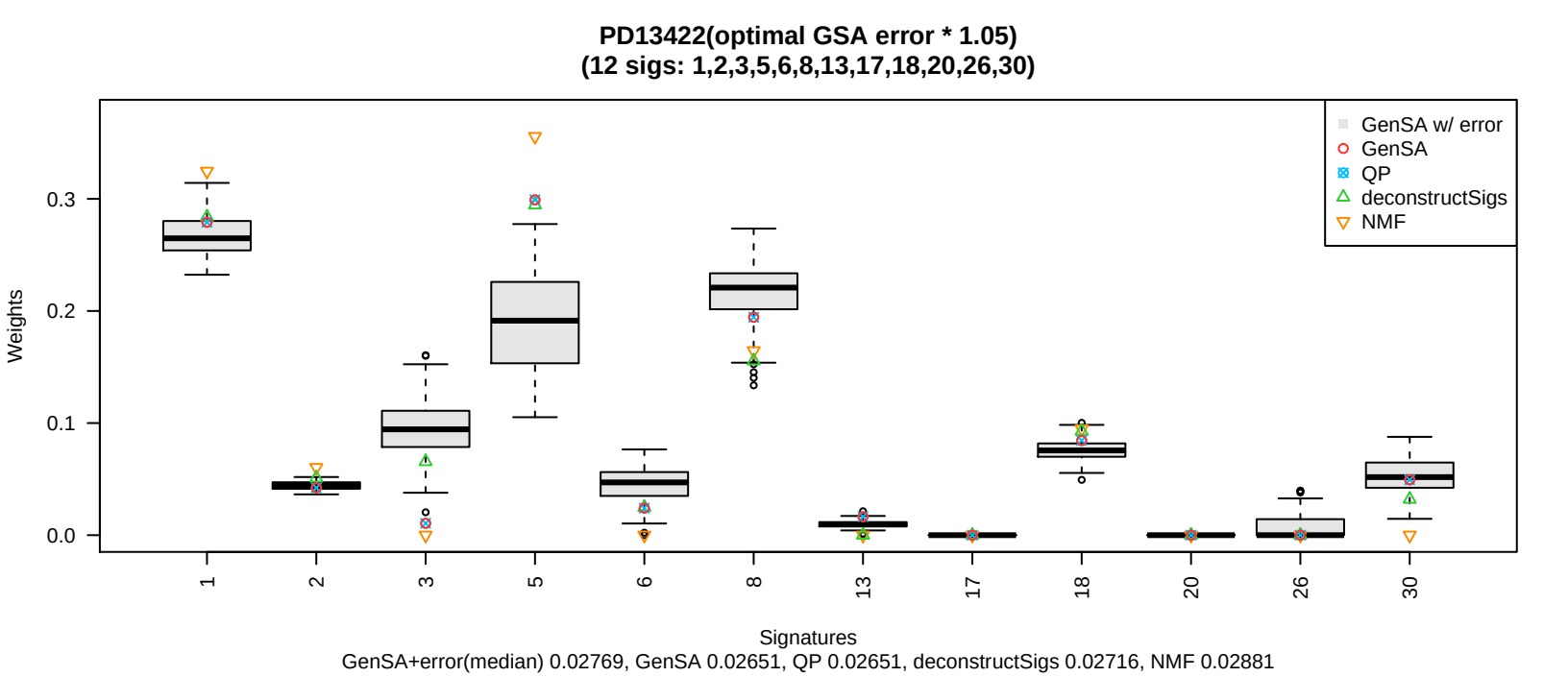
GenSA+error(median) 0.01573, GenSA 0.01509, QP 0.01509, deconstructSigs 0.01538, NMF 0.09952



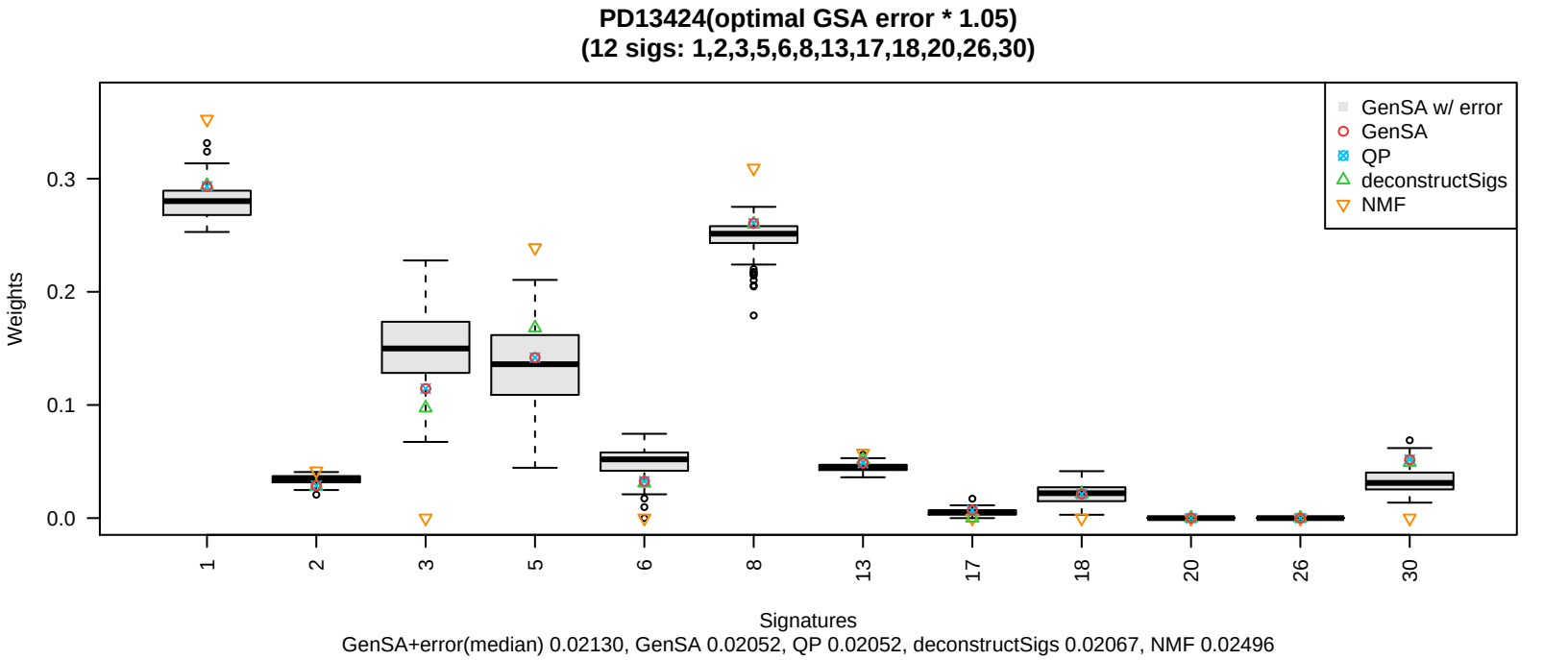
GenSA+error(median) 0.03818, GenSA 0.03645, QP 0.03645, deconstructSigs 0.03649, NMF 0.03839



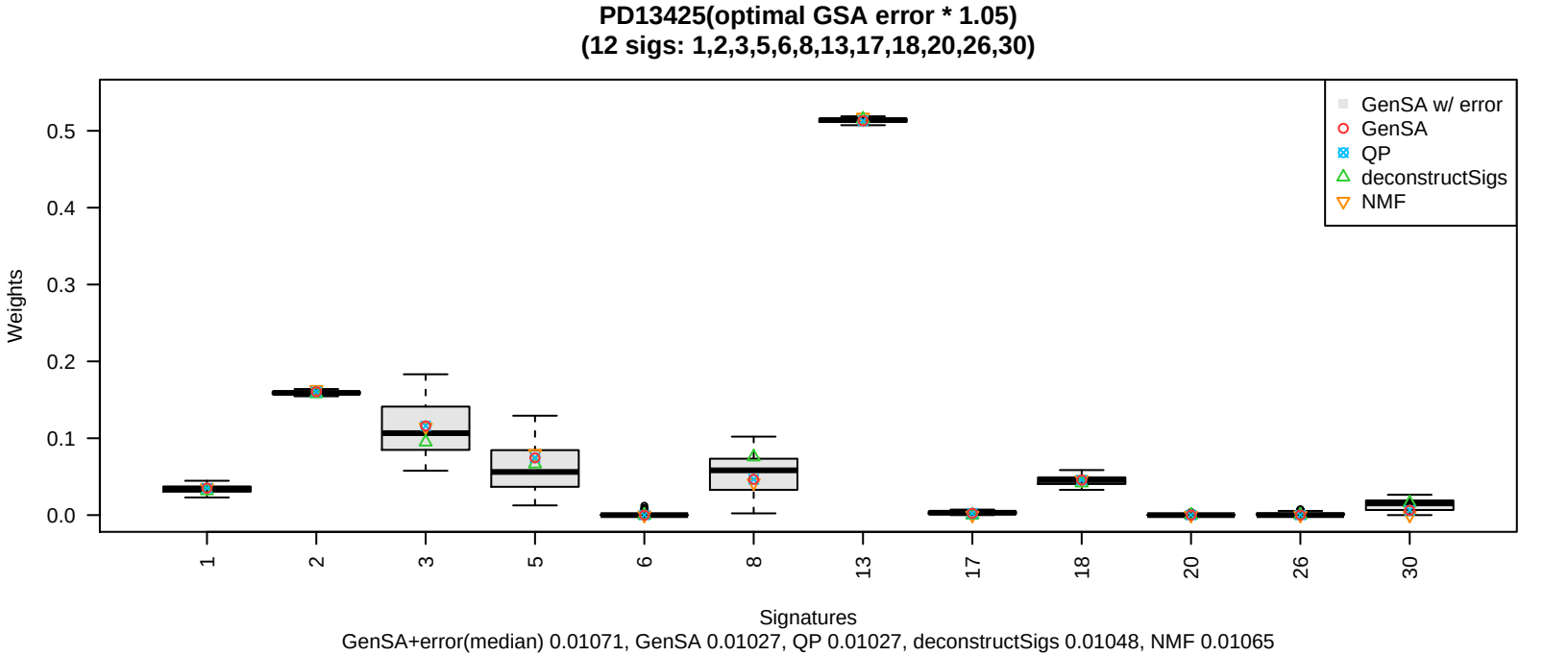
GenSA+error(median) 0.02900, GenSA 0.02785, QP 0.02785, deconstructSigs 0.02870, NMF 0.02905



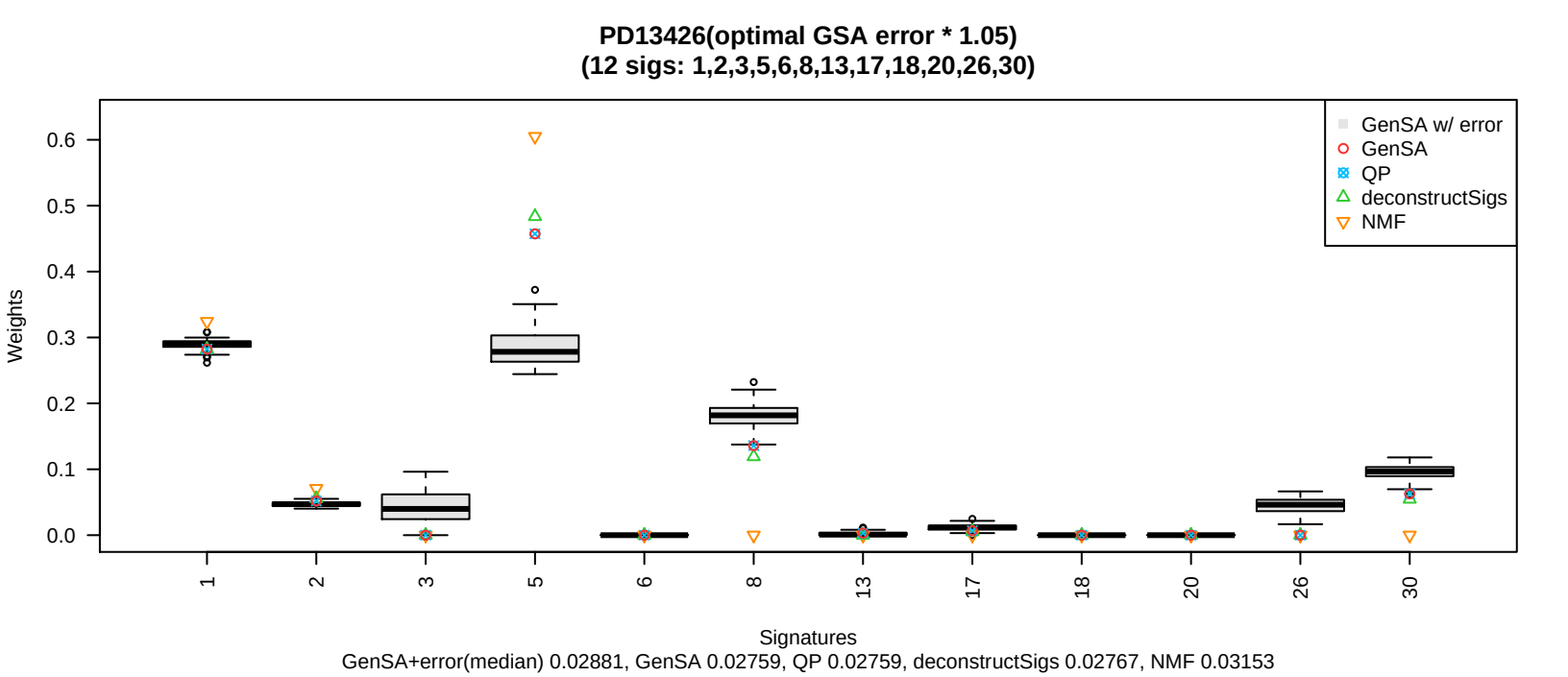
GenSA+error(median) 0.02769, GenSA 0.02651, QP 0.02651, deconstructSigs 0.02716, NMF 0.02881



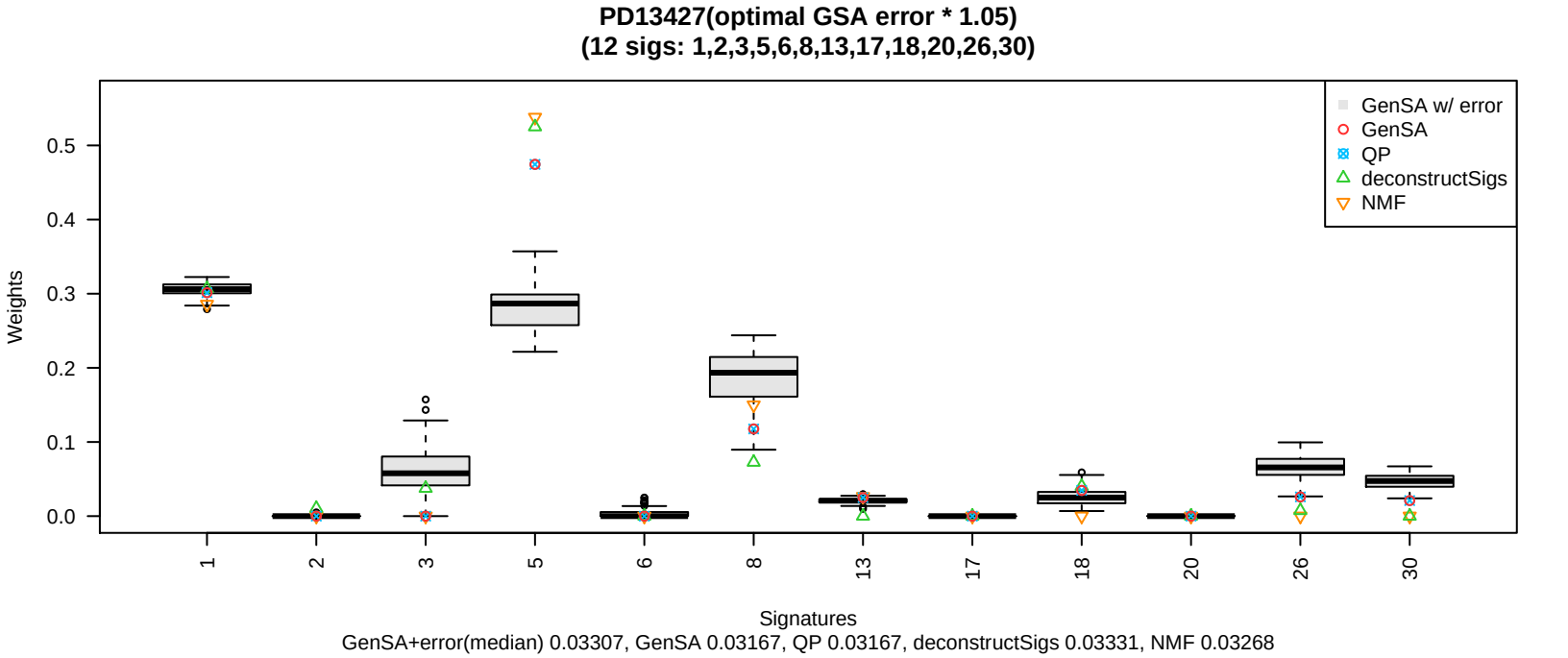
GenSA+error(median) 0.02130, GenSA 0.02052, QP 0.02052, deconstructSigs 0.02067, NMF 0.02496



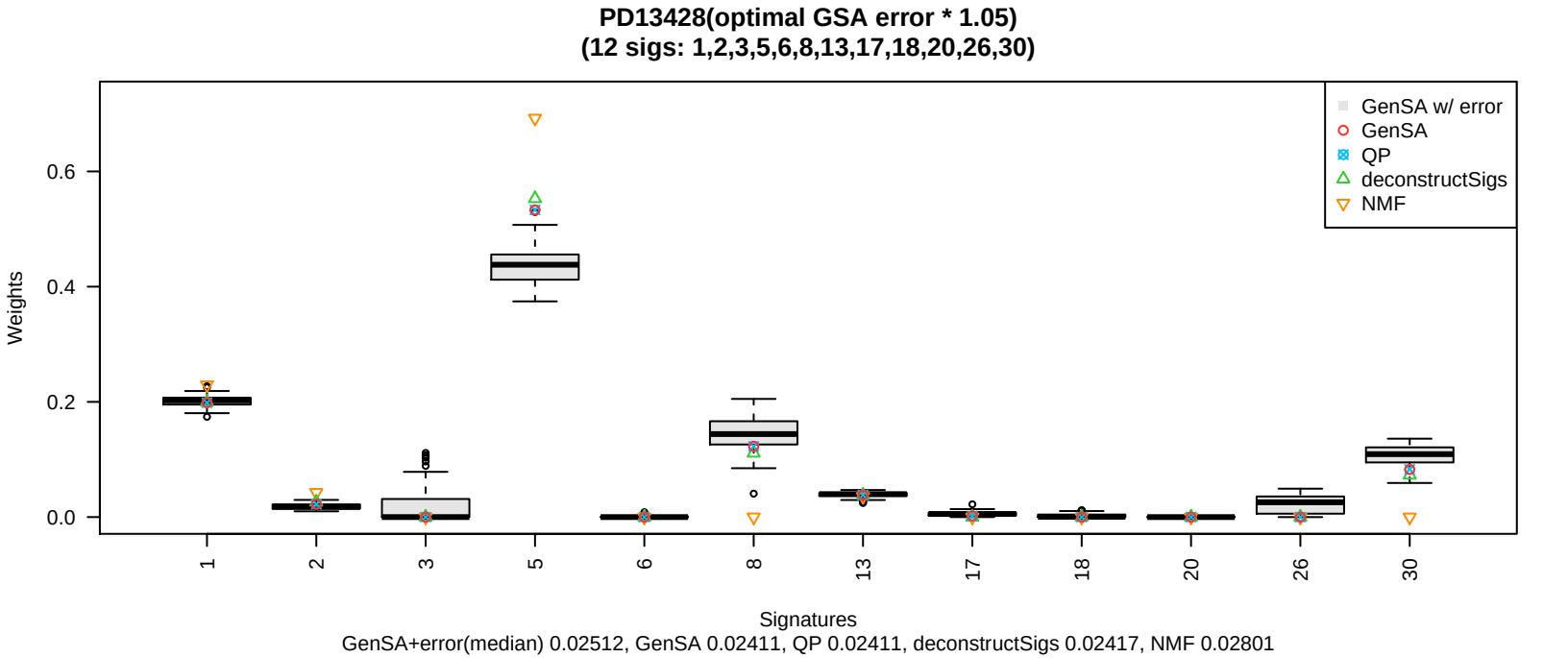
GenSA+error(median) 0.01071, GenSA 0.01027, QP 0.01027, deconstructSigs 0.01048, NMF 0.01065



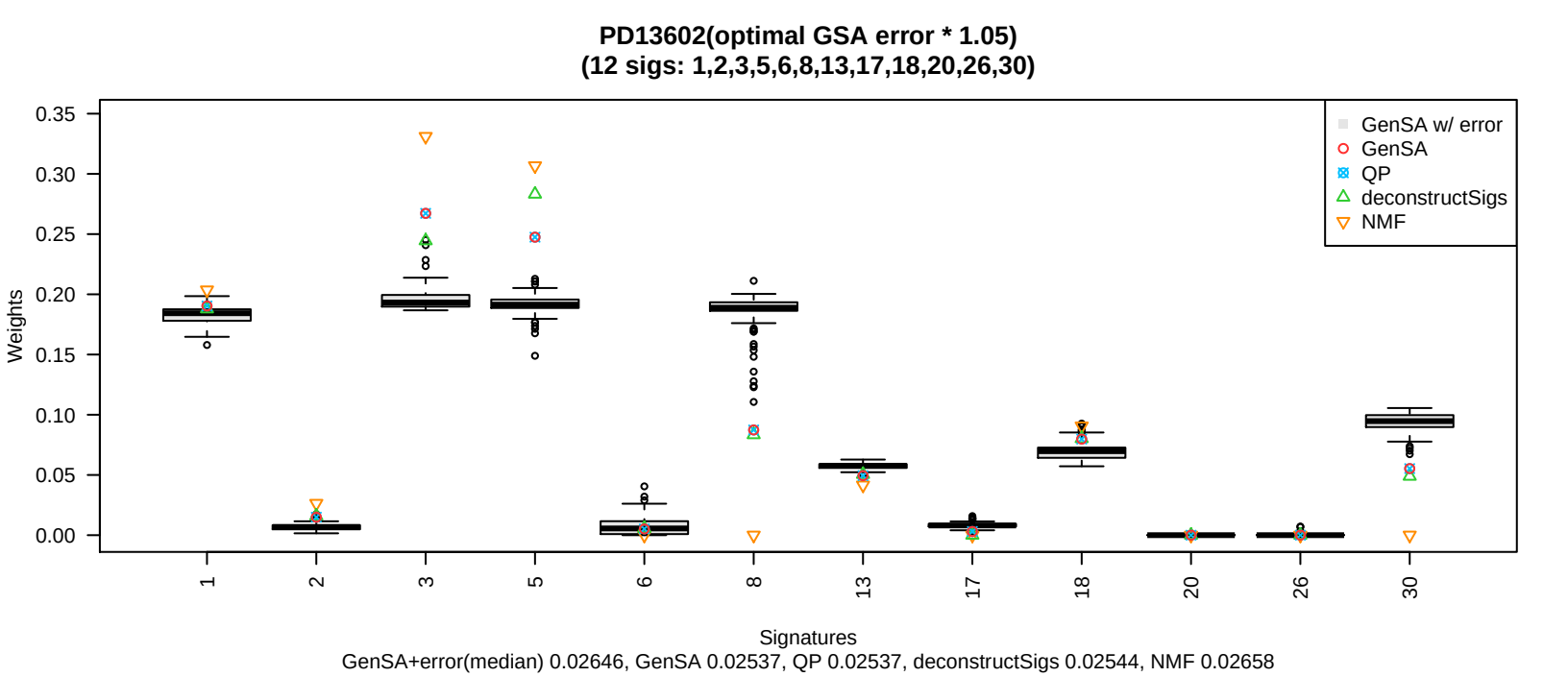
GenSA+error(median) 0.02881, GenSA 0.02759, QP 0.02759, deconstructSigs 0.02767, NMF 0.03153



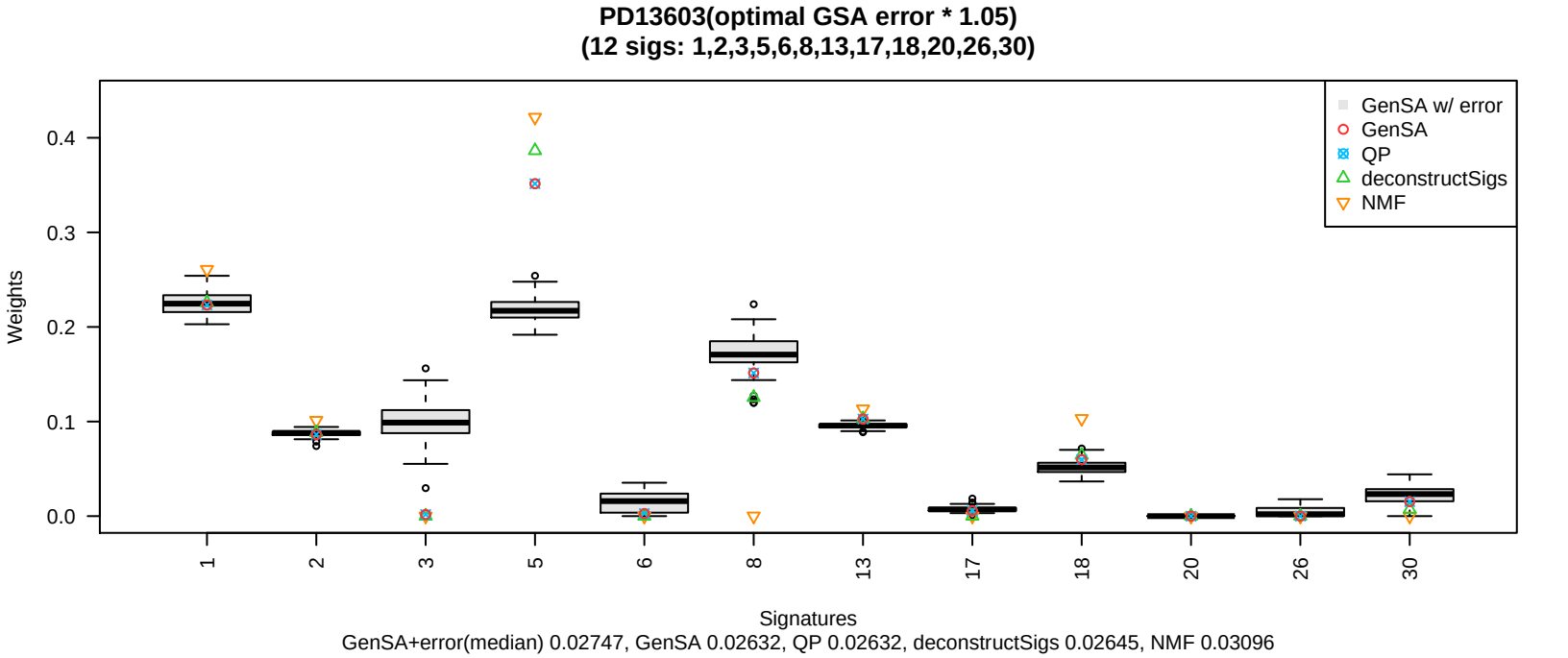
GenSA+error(median) 0.03307, GenSA 0.03167, QP 0.03167, deconstructSigs 0.03331, NMF 0.03268



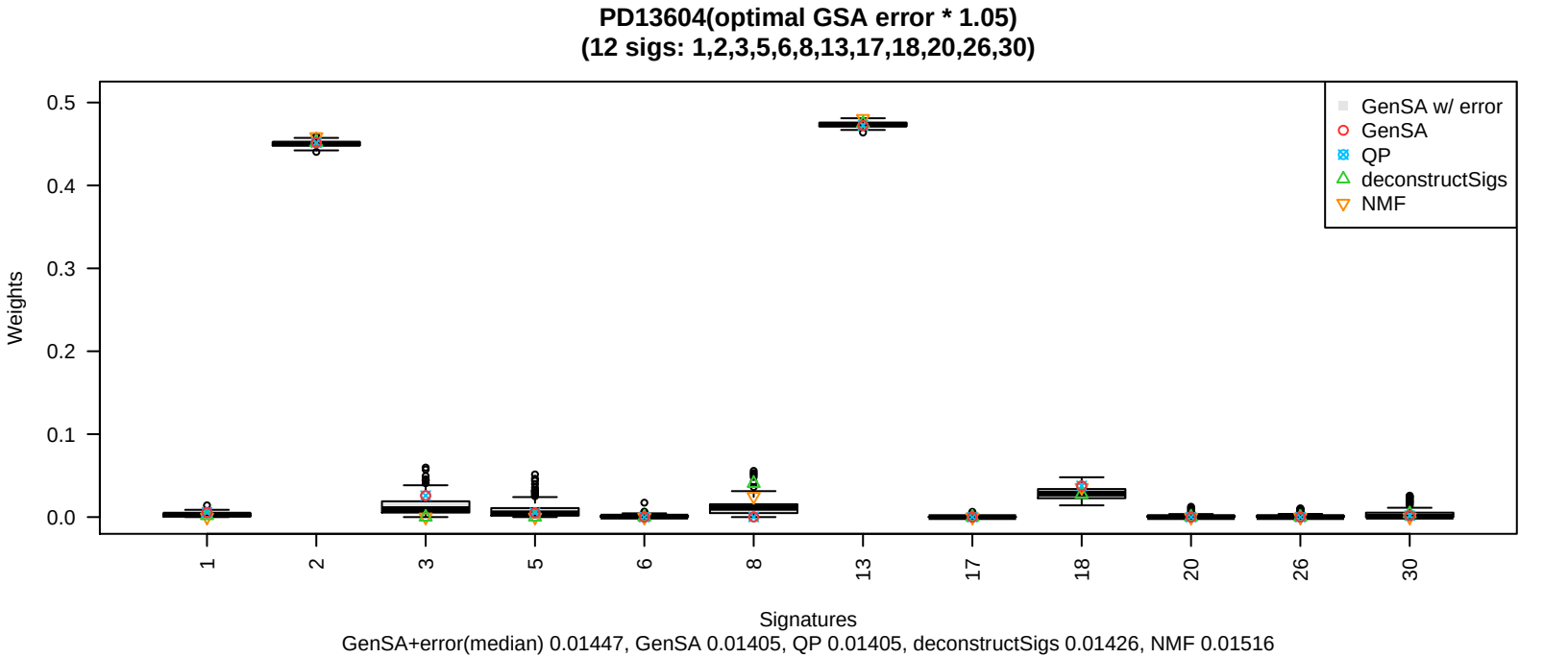
GenSA+error(median) 0.02512, GenSA 0.02411, QP 0.02411, deconstructSigs 0.02417, NMF 0.02801



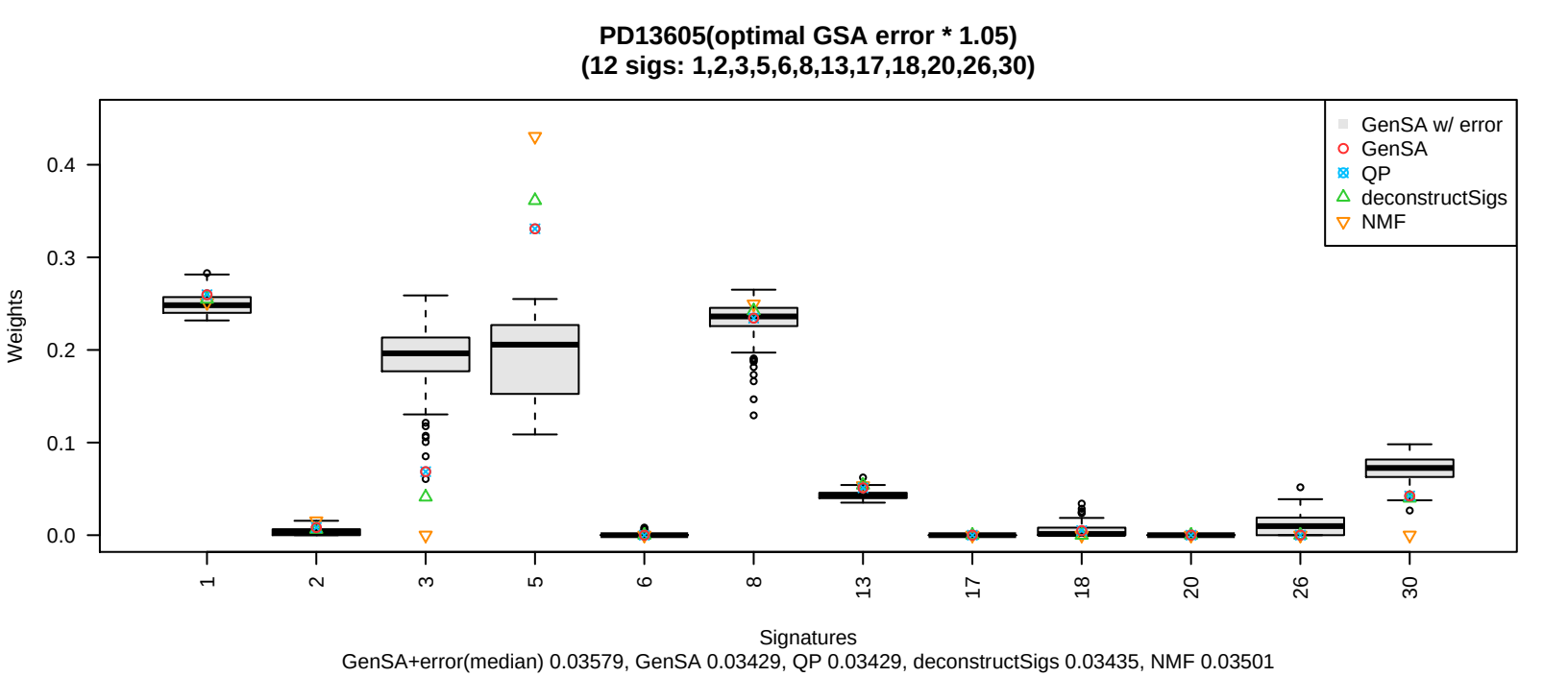
GenSA+error(median) 0.02646, GenSA 0.02537, QP 0.02537, deconstructSigs 0.02544, NMF 0.02658



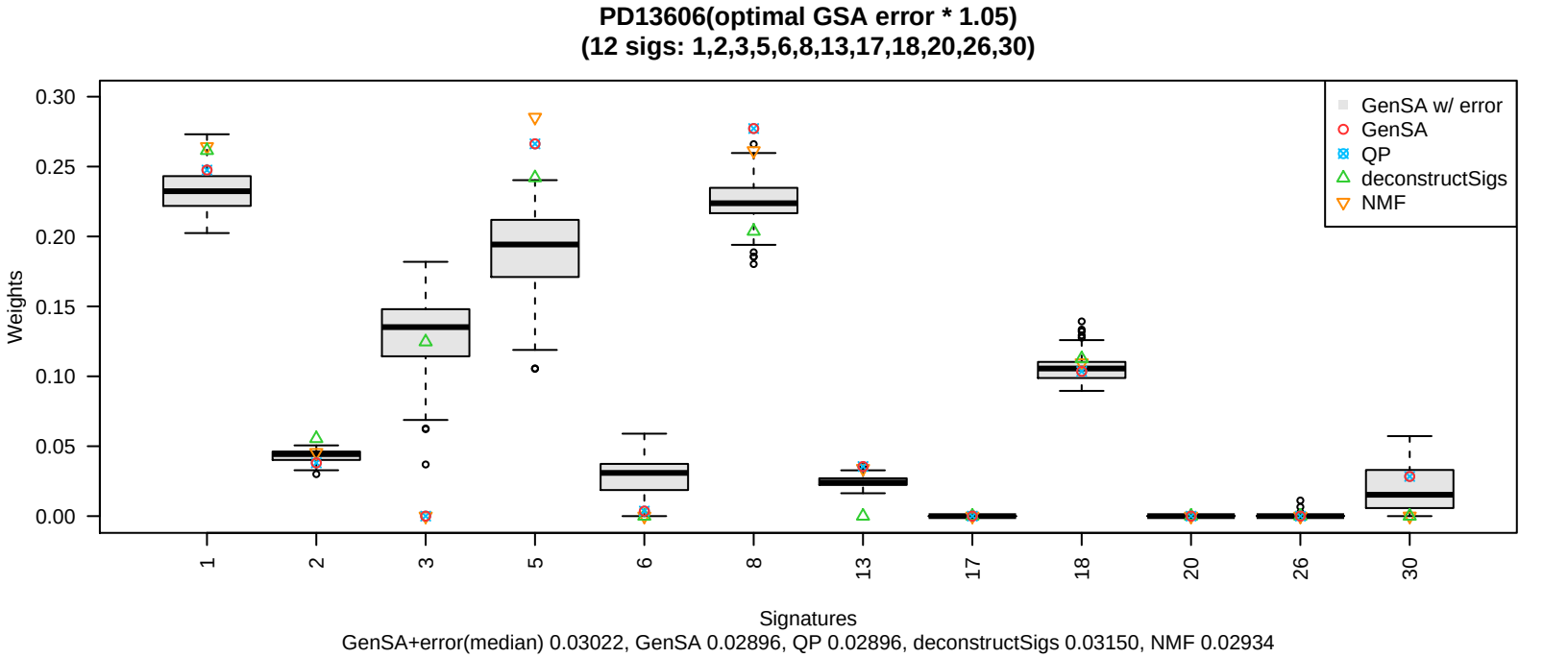
GenSA+error(median) 0.02747, GenSA 0.02632, QP 0.02632, deconstructSigs 0.02645, NMF 0.03096



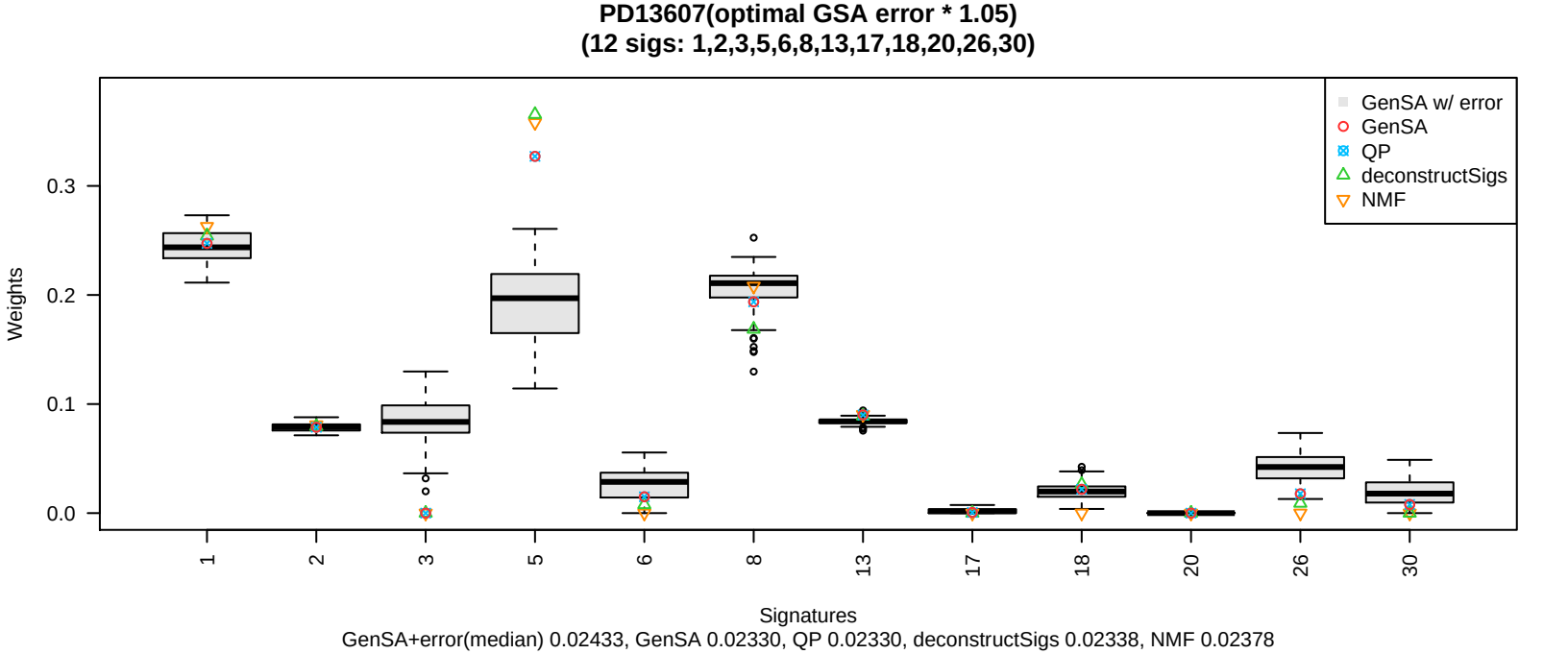
GenSA+error(median) 0.01447, GenSA 0.01405, QP 0.01405, deconstructSigs 0.01426, NMF 0.01516



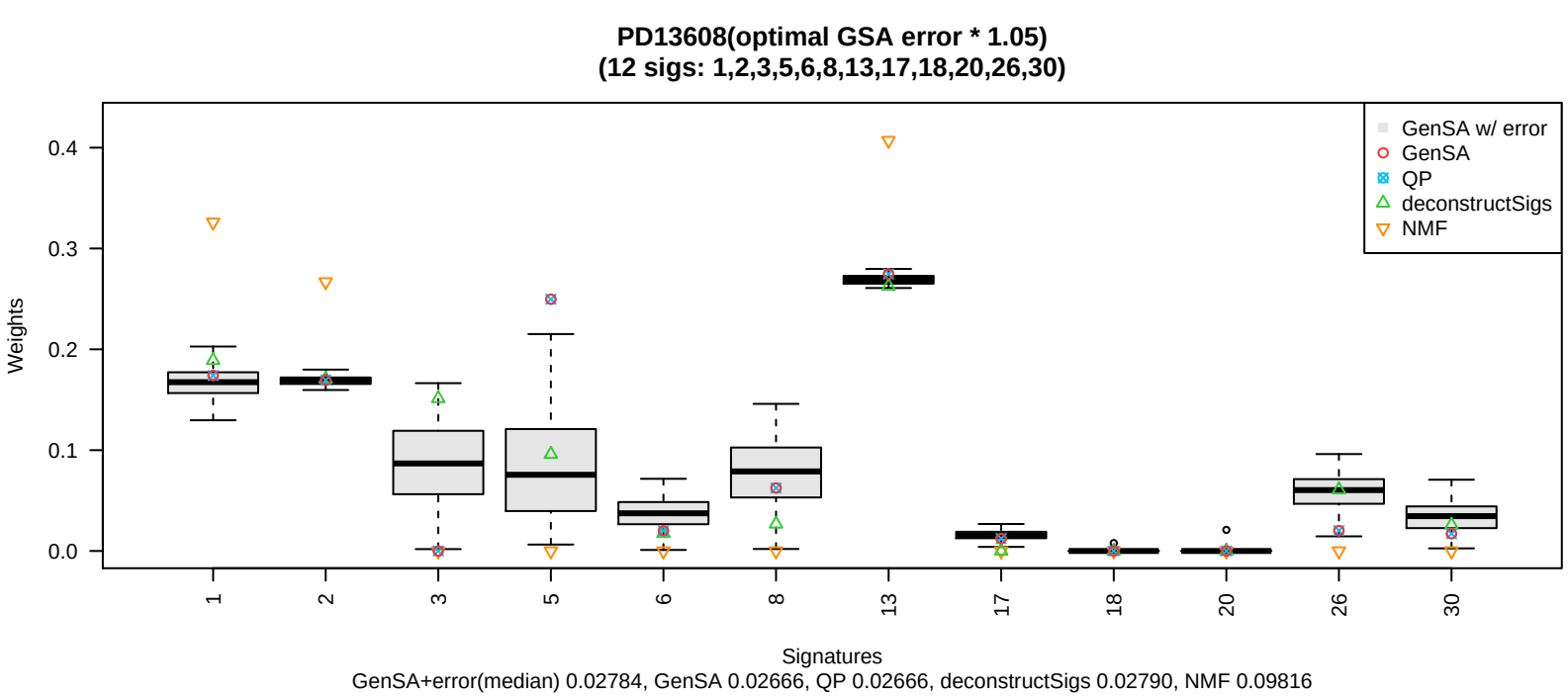
GenSA+error(median) 0.03579, GenSA 0.03429, QP 0.03429, deconstructSigs 0.03435, NMF 0.03501

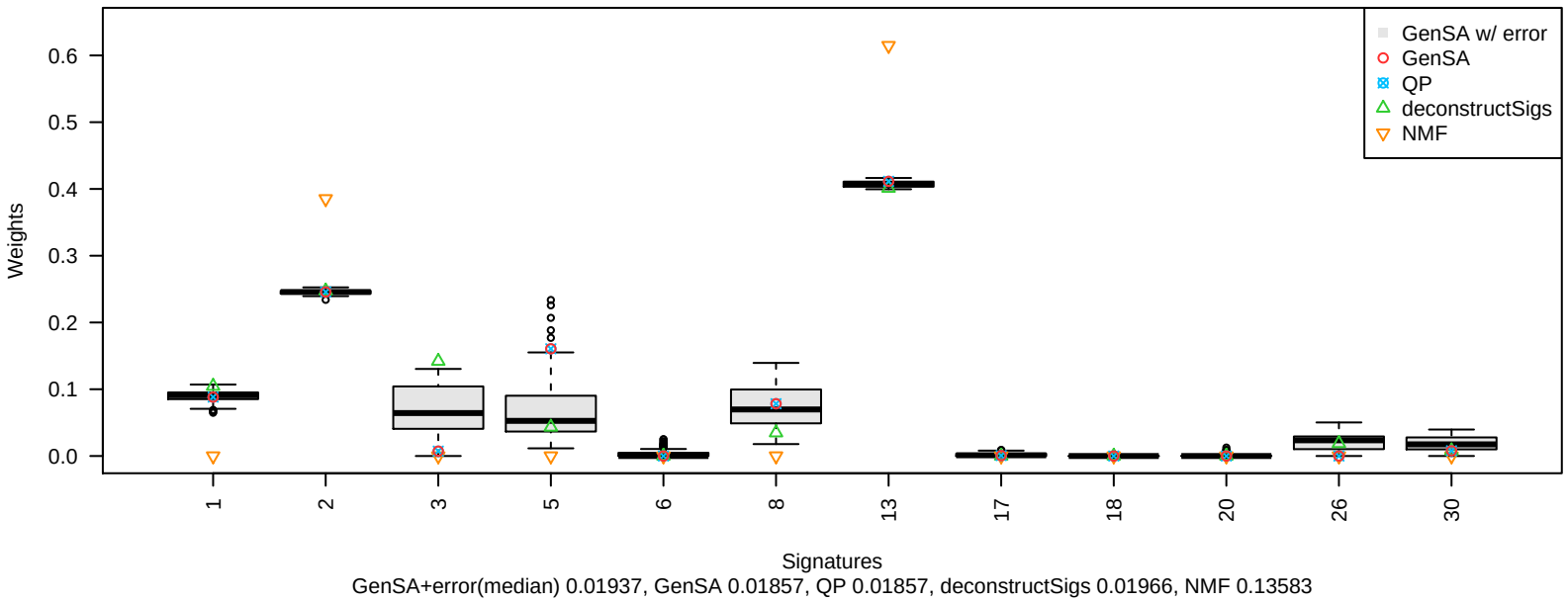


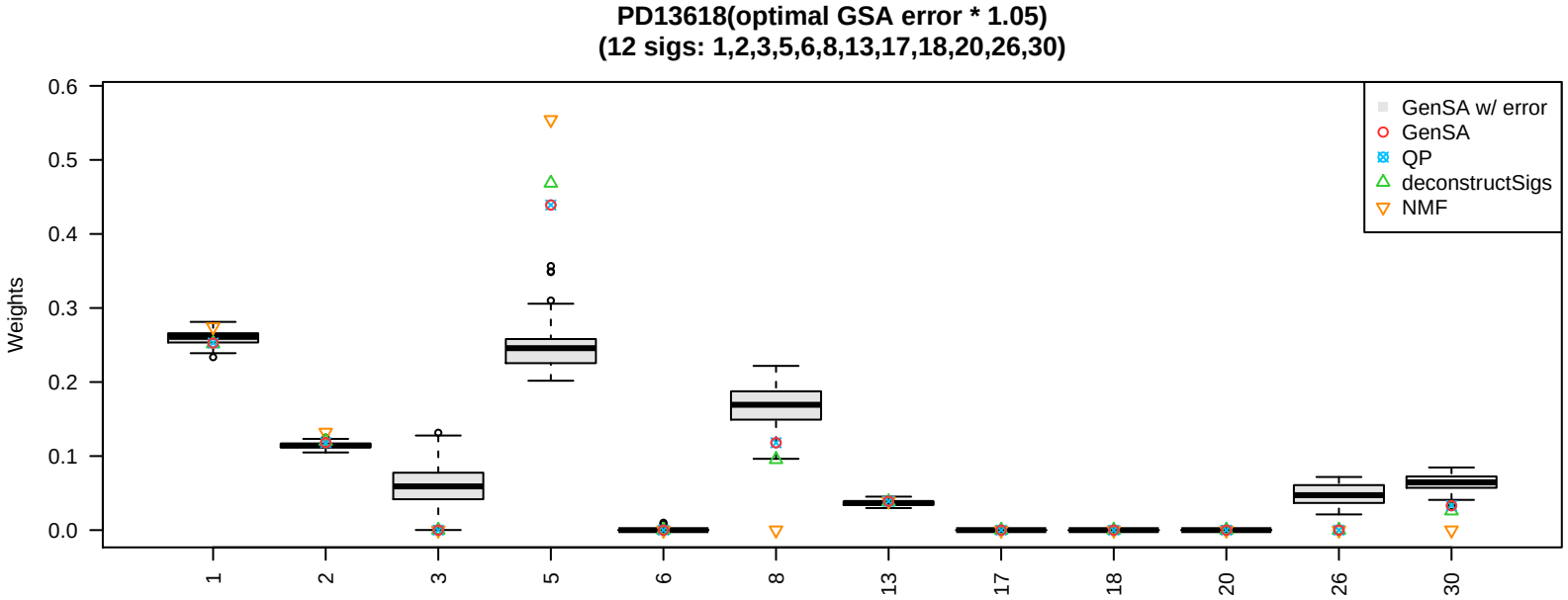
GenSA+error(median) 0.03022, GenSA 0.02896, QP 0.02896, deconstructSigs 0.03150, NMF 0.02934

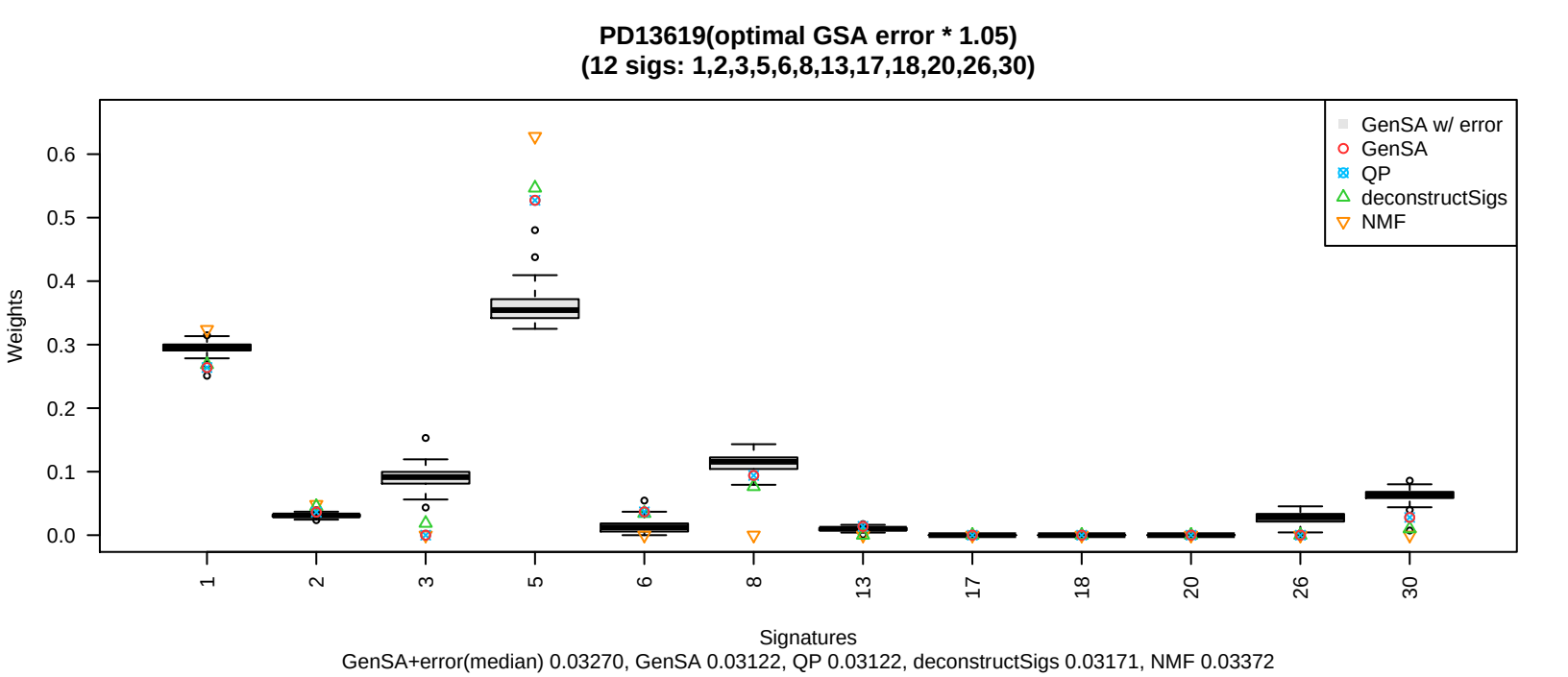


GenSA+error(median) 0.02433, GenSA 0.02330, QP 0.02330, deconstructSigs 0.02338, NMF 0.02378

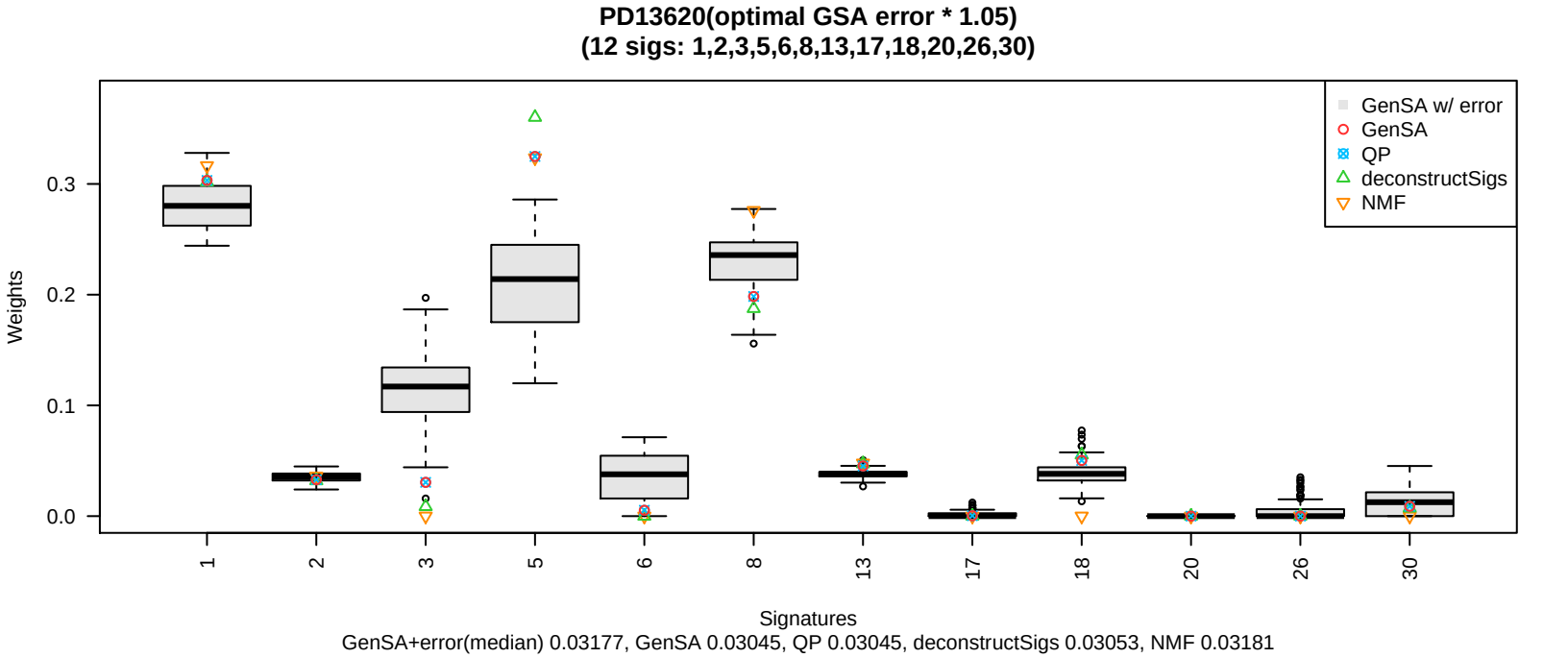

PD13608(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02784, GenSA 0.02666, QP 0.02666, deconstructSigs 0.02790, NMF 0.09816


PD13609(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01937, GenSA 0.01857, QP 0.01857, deconstructSigs 0.01966, NMF 0.13583

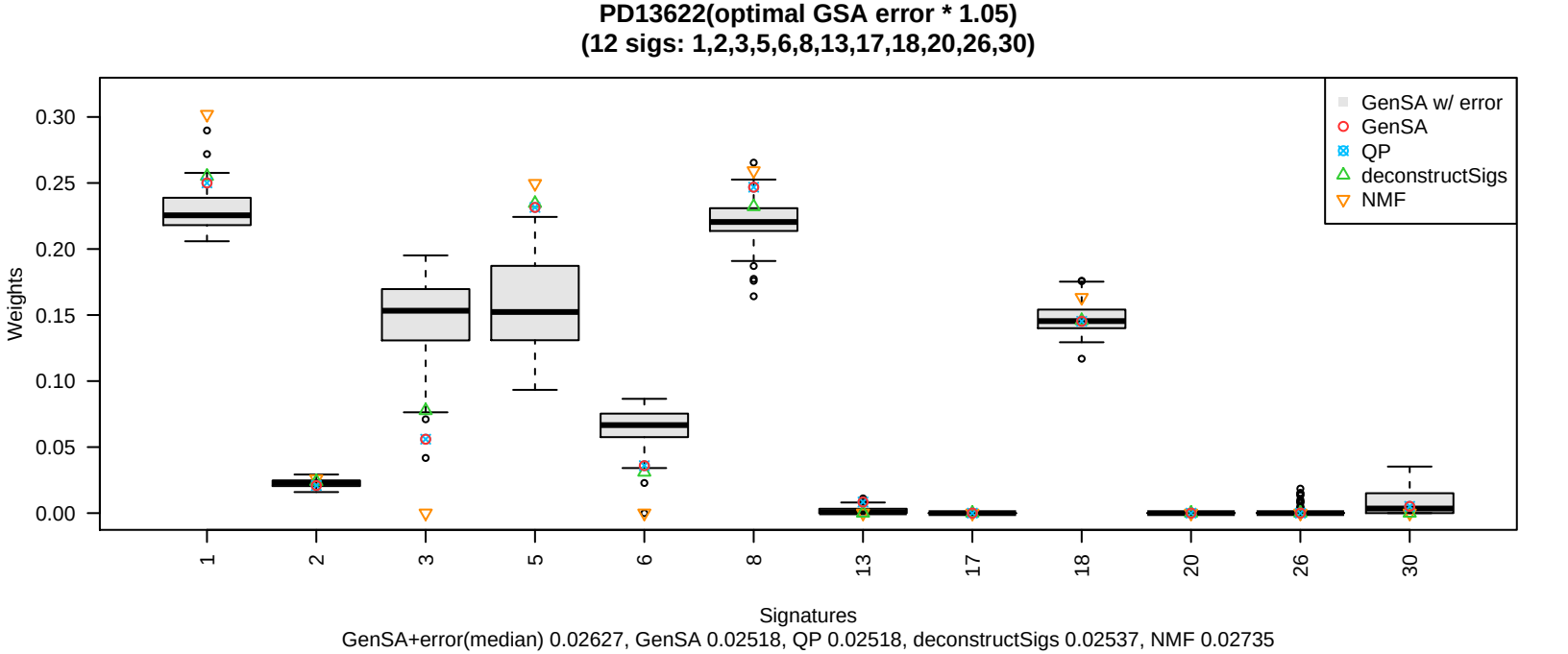

PD13618(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03025, GenSA 0.02894, QP 0.02894, deconstructSigs 0.02901, NMF 0.03126



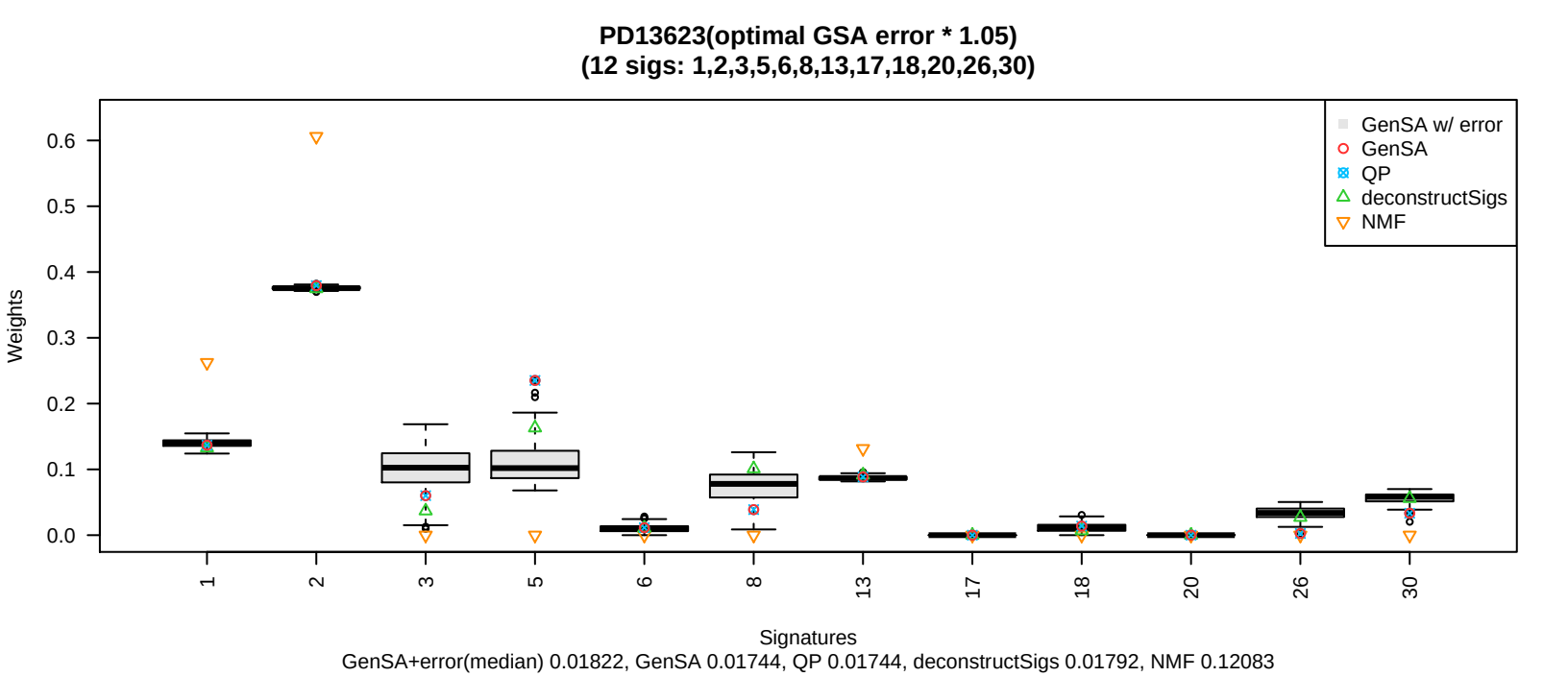
GenSA+error(median) 0.03270, GenSA 0.03122, QP 0.03122, deconstructSigs 0.03171, NMF 0.03372



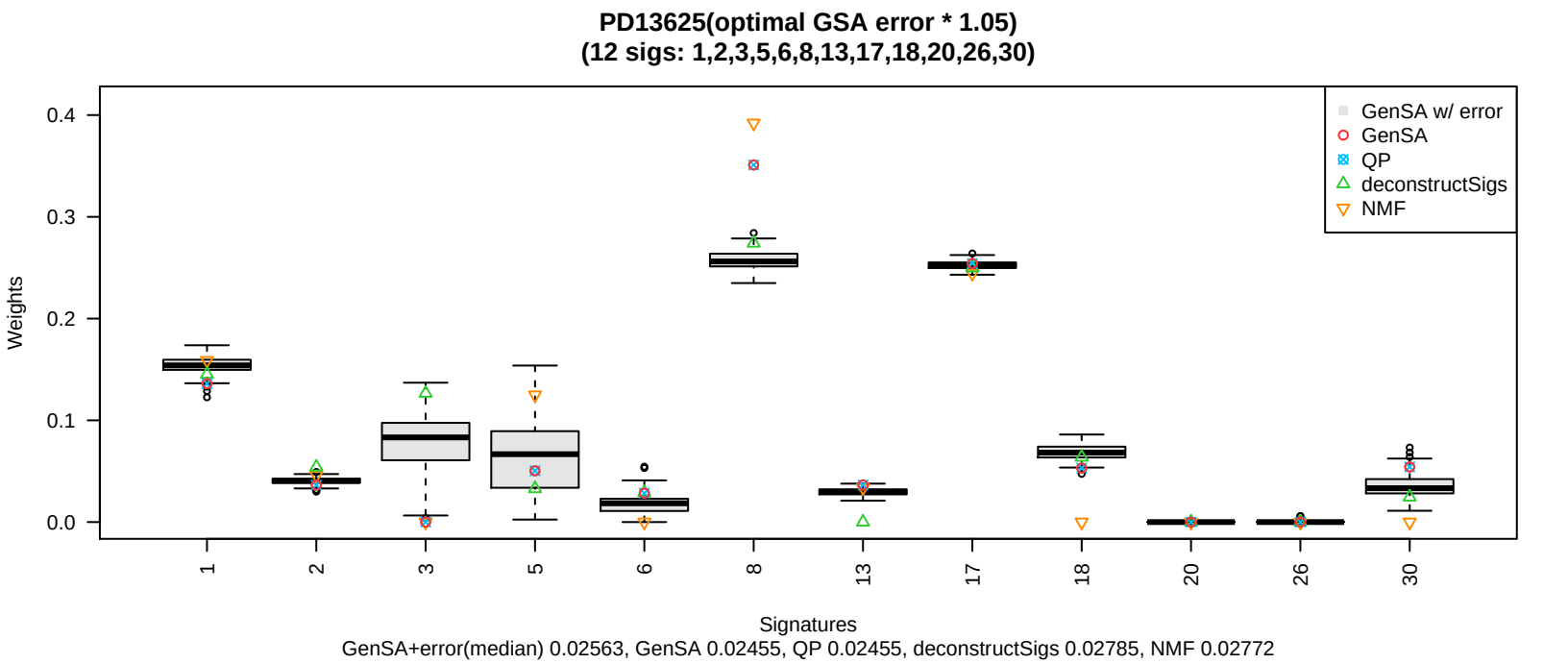
GenSA+error(median) 0.03177, GenSA 0.03045, QP 0.03045, deconstructSigs 0.03053, NMF 0.03181



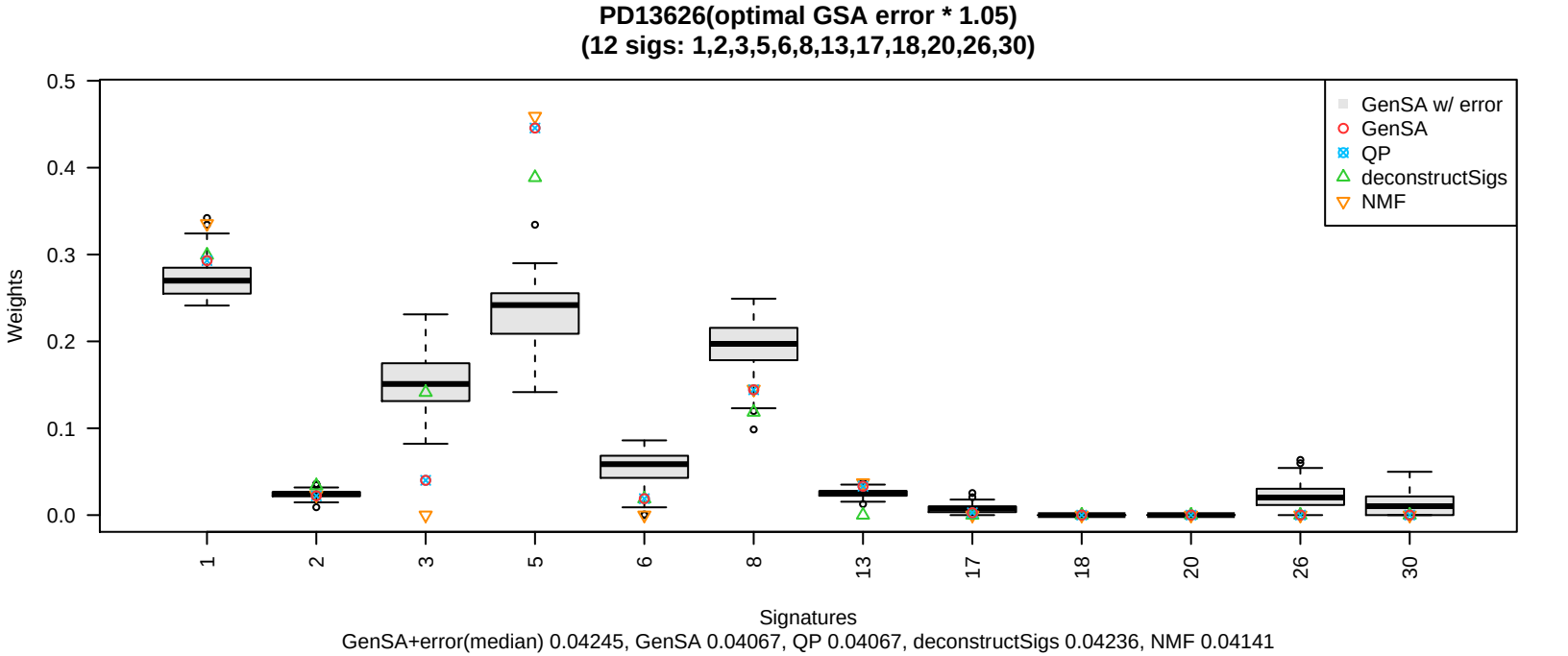
GenSA+error(median) 0.02627, GenSA 0.02518, QP 0.02518, deconstructSigs 0.02537, NMF 0.02735



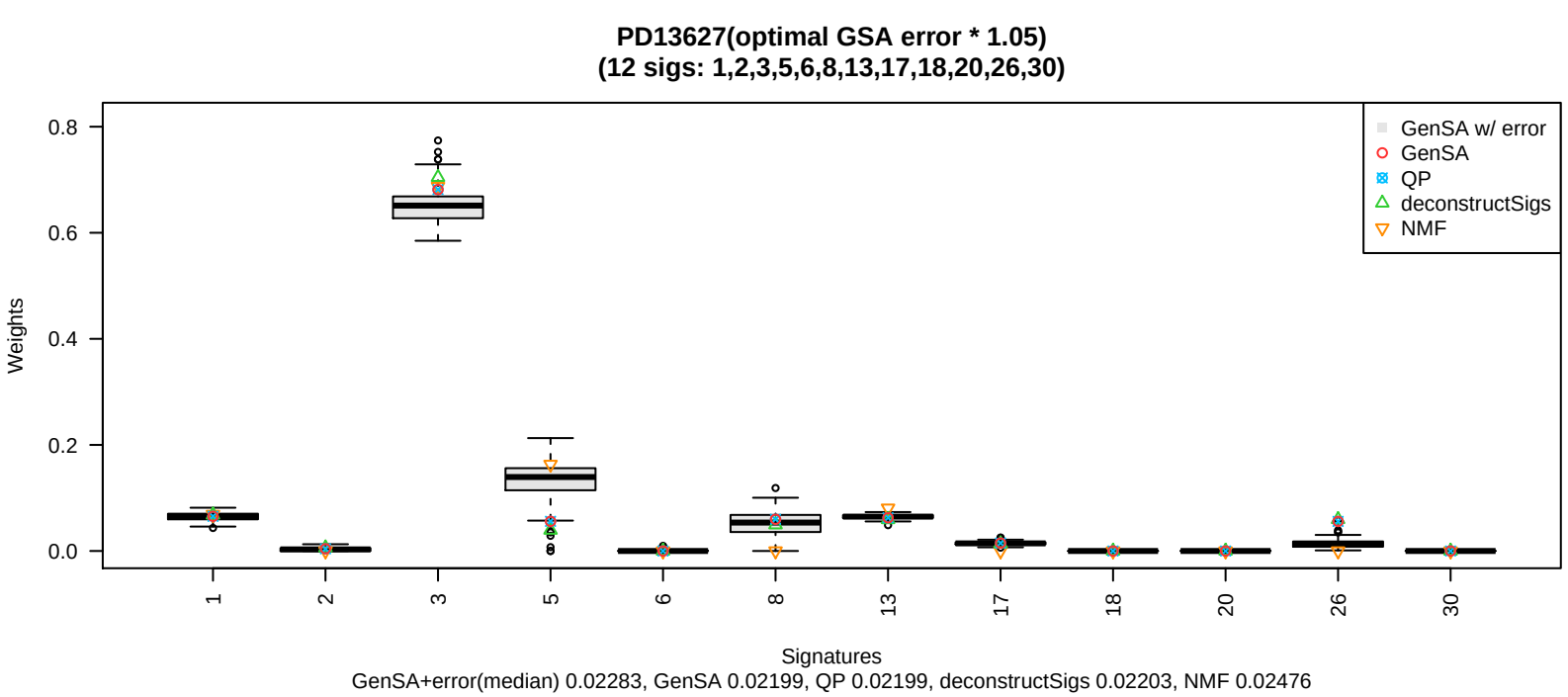
GenSA+error(median) 0.01822, GenSA 0.01744, QP 0.01744, deconstructSigs 0.01792, NMF 0.12083

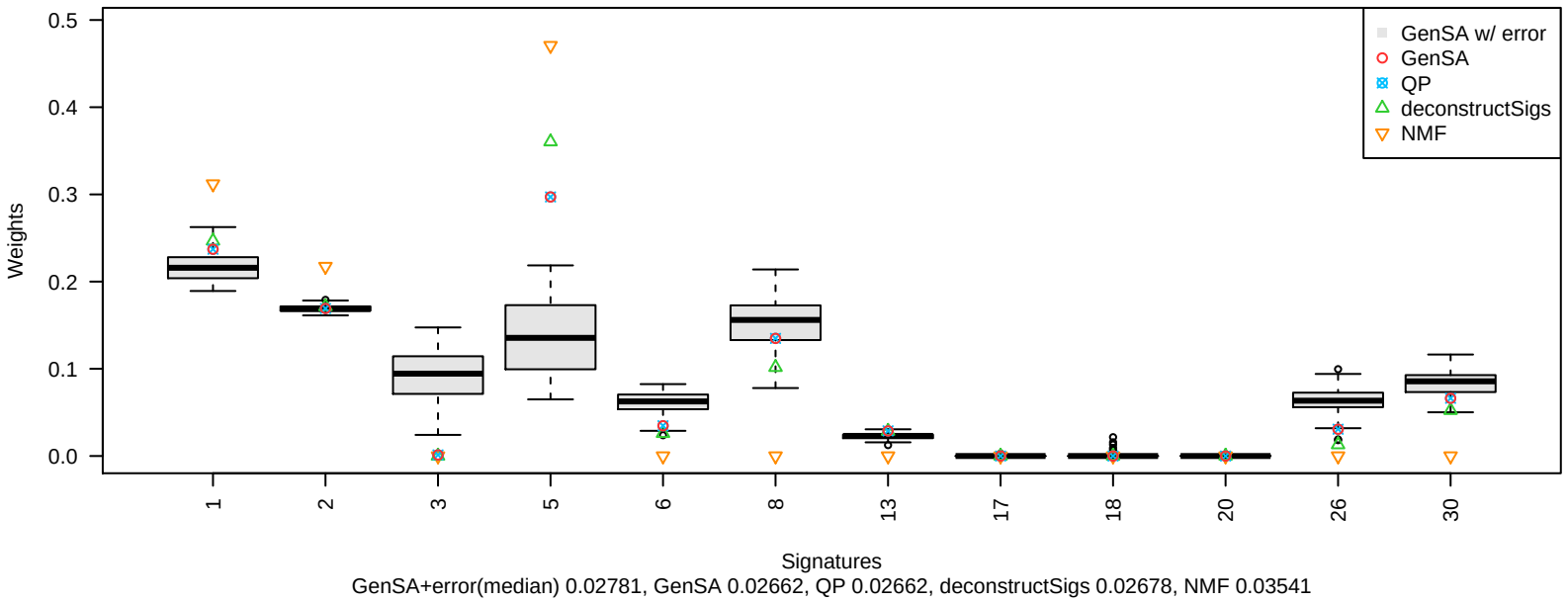


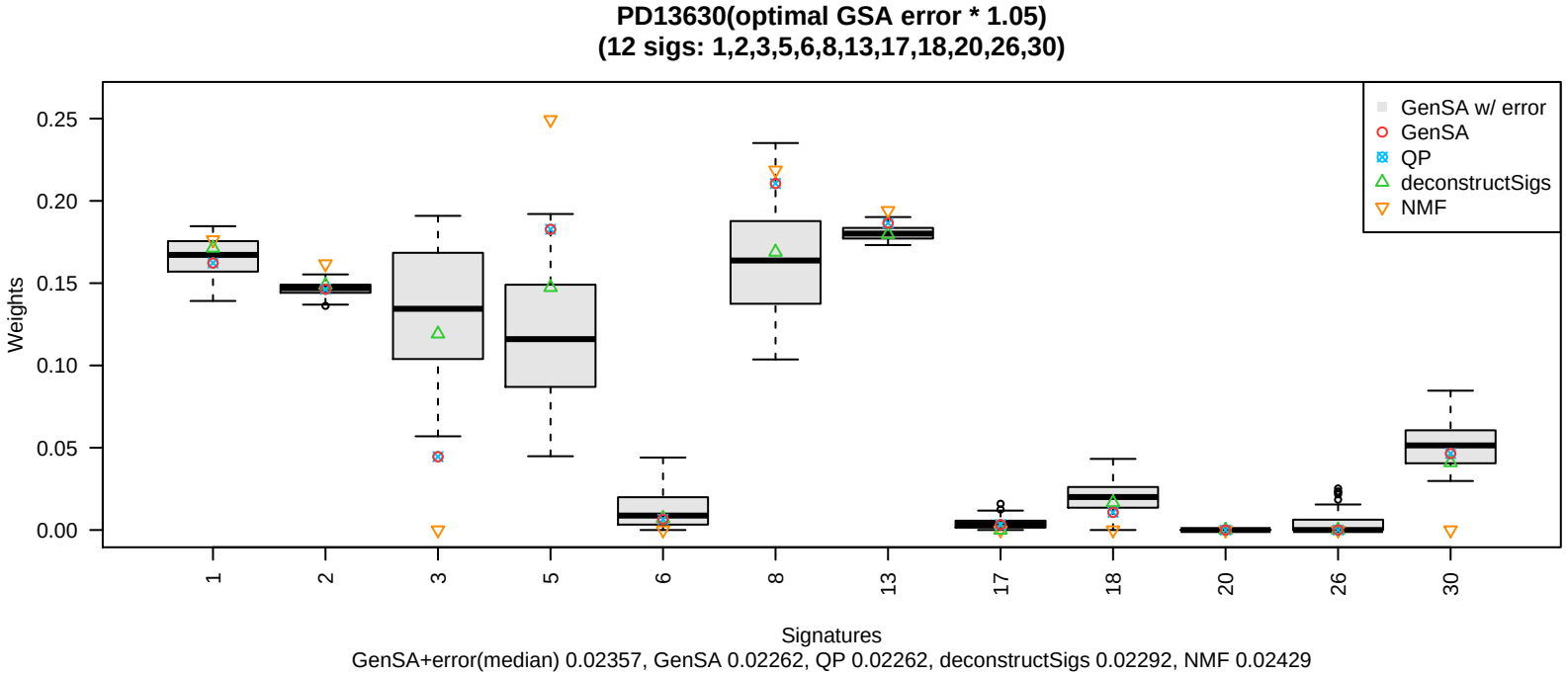
GenSA+error(median) 0.02563, GenSA 0.02455, QP 0.02455, deconstructSigs 0.02785, NMF 0.02772

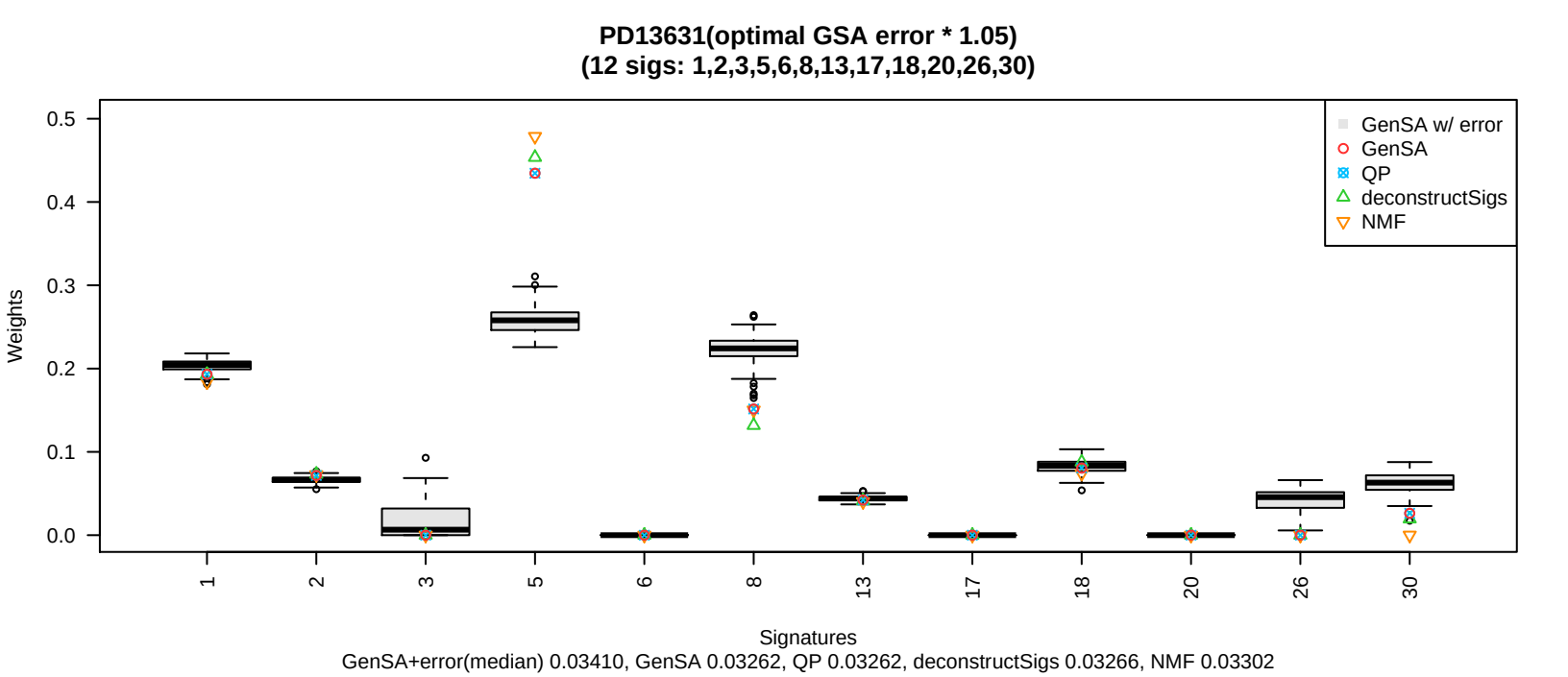


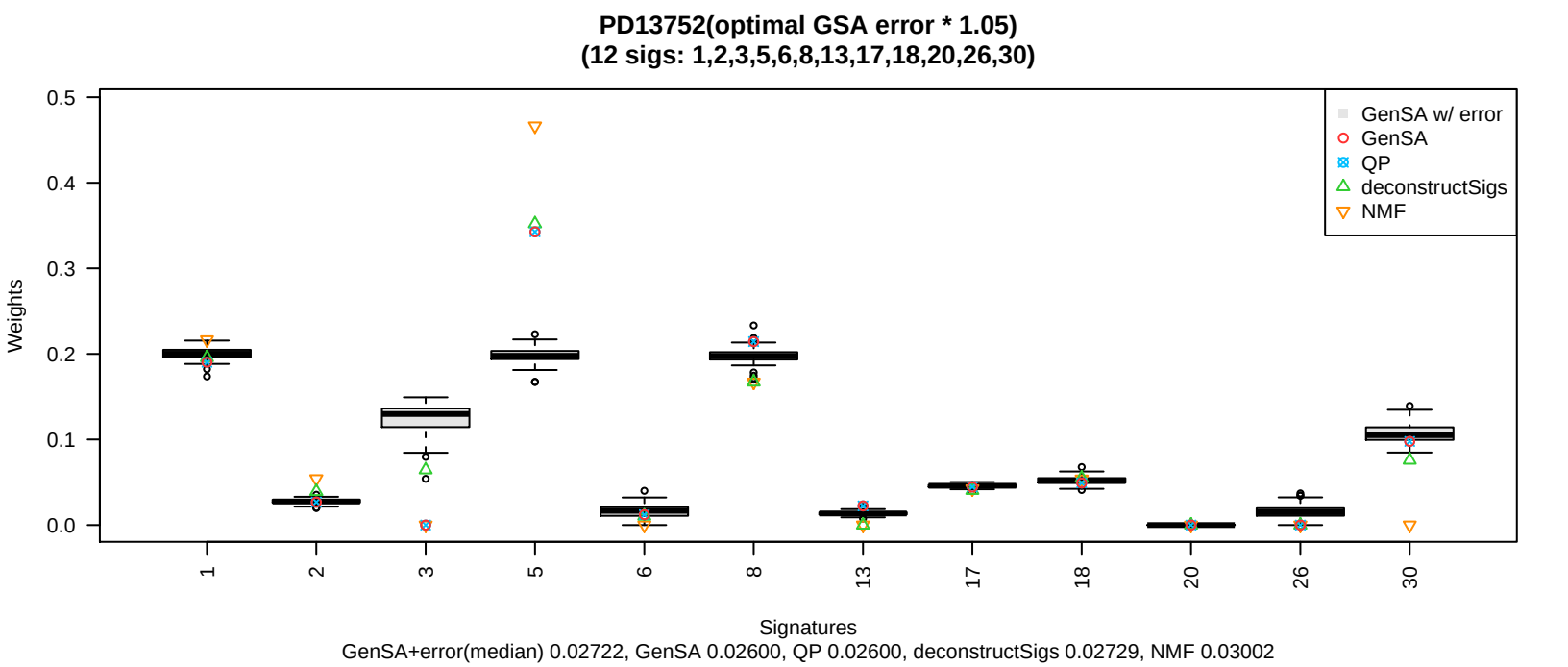
GenSA+error(median) 0.04245, GenSA 0.04067, QP 0.04067, deconstructSigs 0.04236, NMF 0.04141

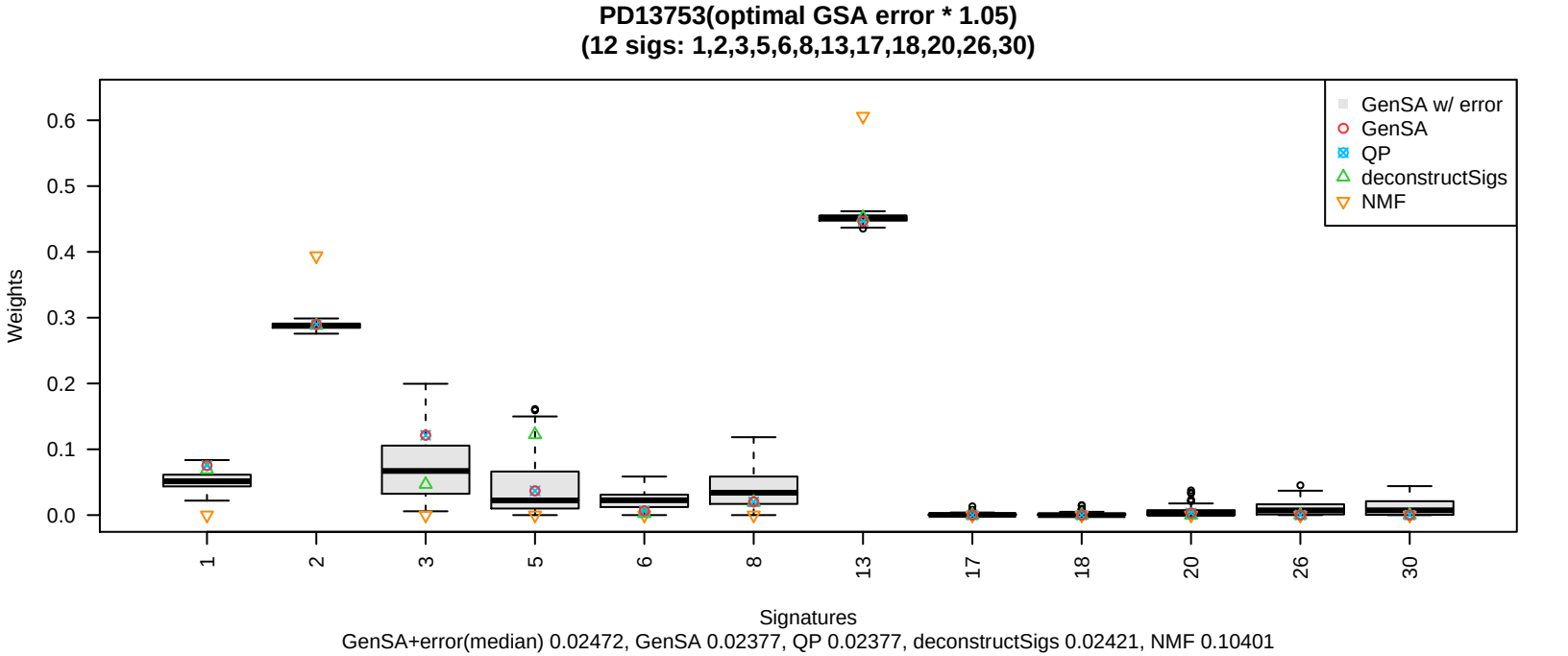

PD13627(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.2
0.4
0.6
0.8
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02283, GenSA 0.02199, QP 0.02199, deconstructSigs 0.02203, NMF 0.02476

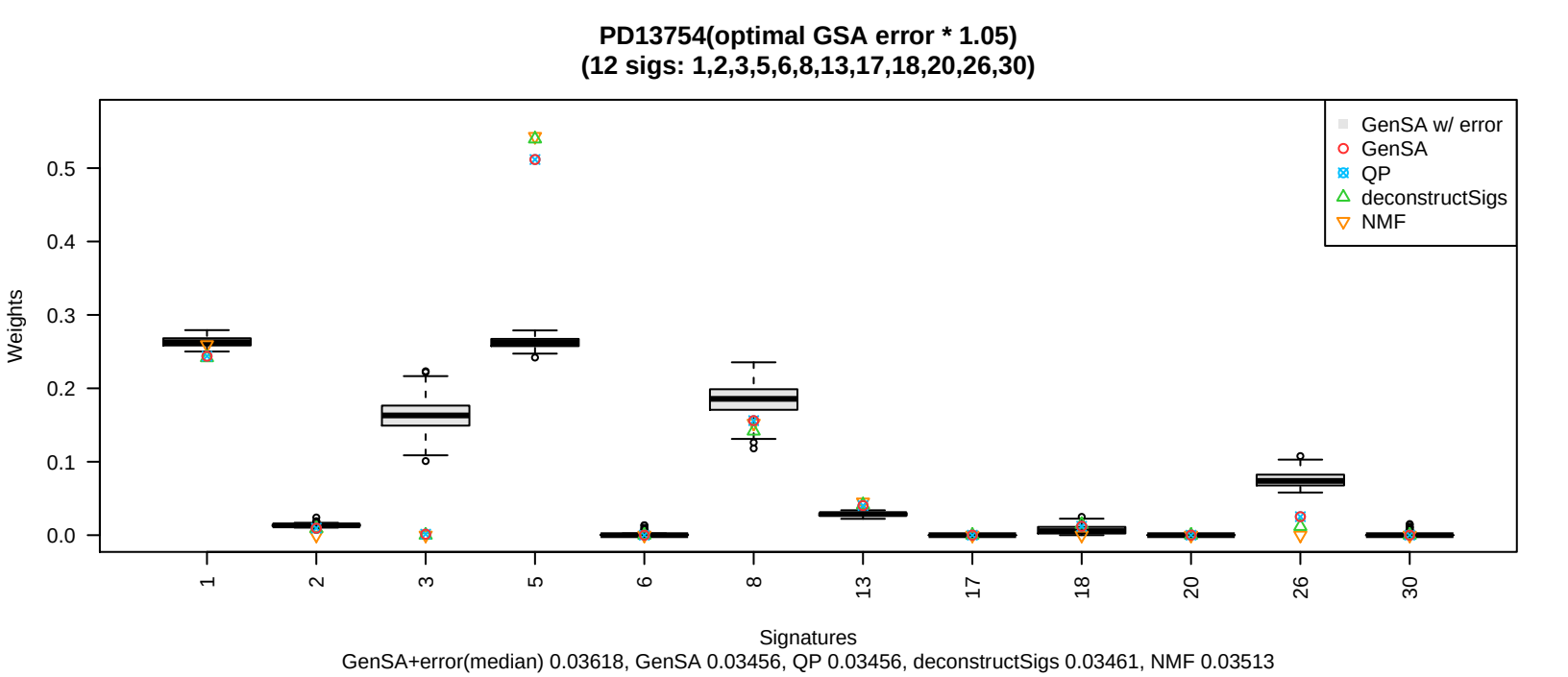

PD13629(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02781, GenSA 0.02662, QP 0.02662, deconstructSigs 0.02678, NMF 0.03541

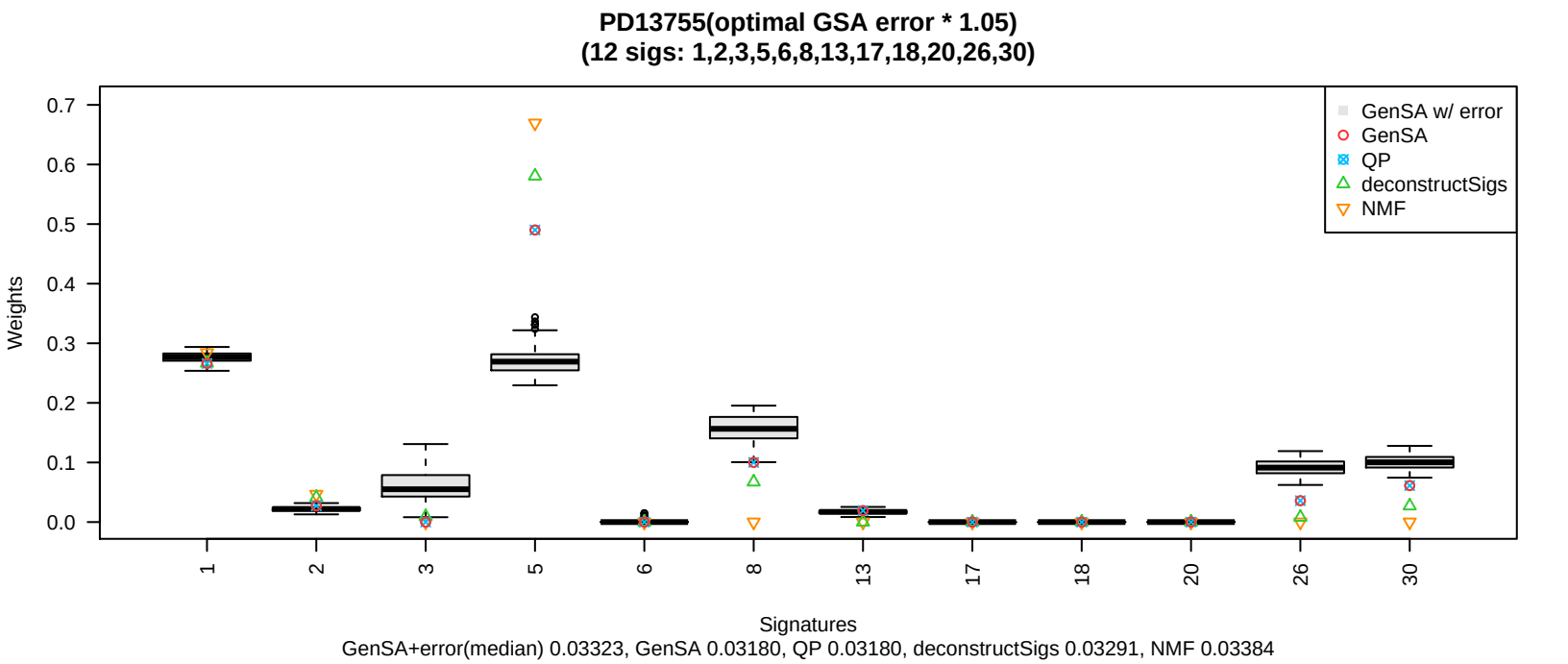

PD13630(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.00
0.05
0.10
0.15
0.20
0.25
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02357, GenSA 0.02262, QP 0.02262, deconstructSigs 0.02292, NMF 0.02429

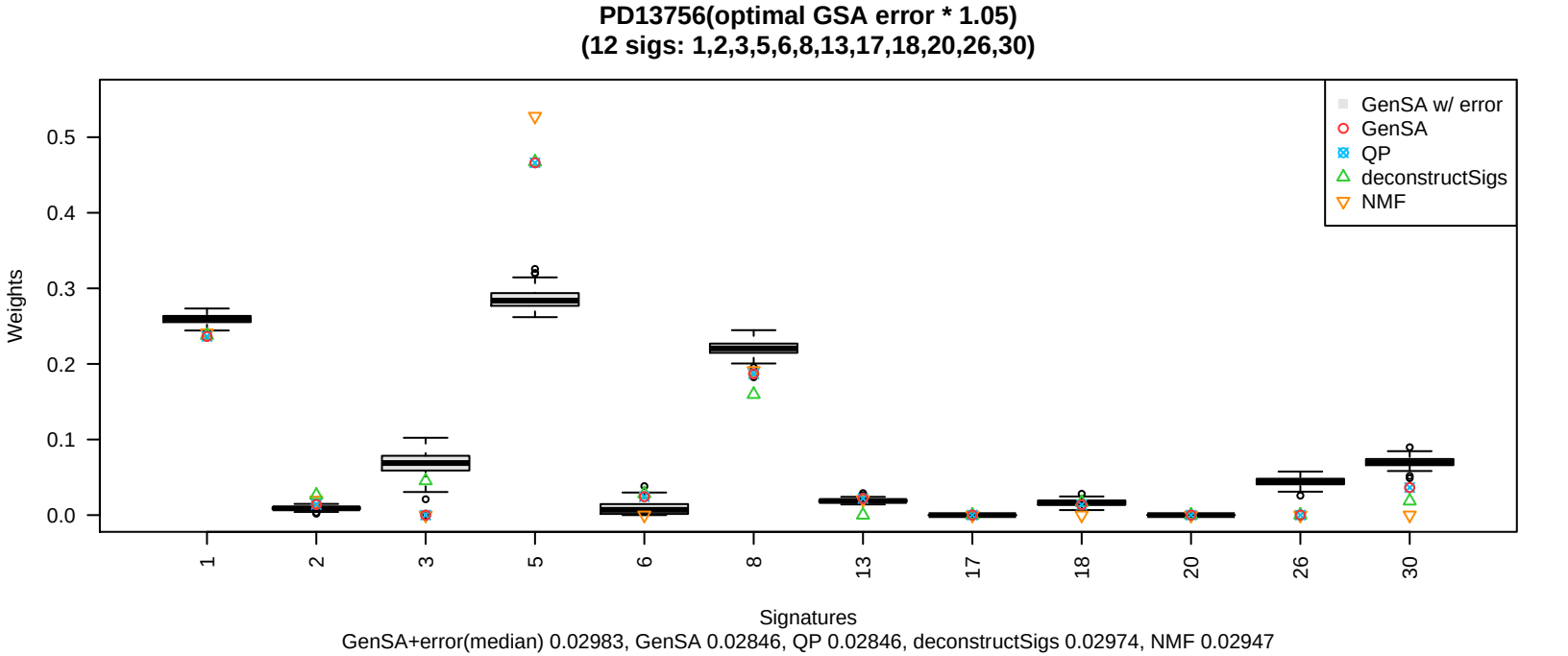

PD13631(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03410, GenSA 0.03262, QP 0.03262, deconstructSigs 0.03266, NMF 0.03302

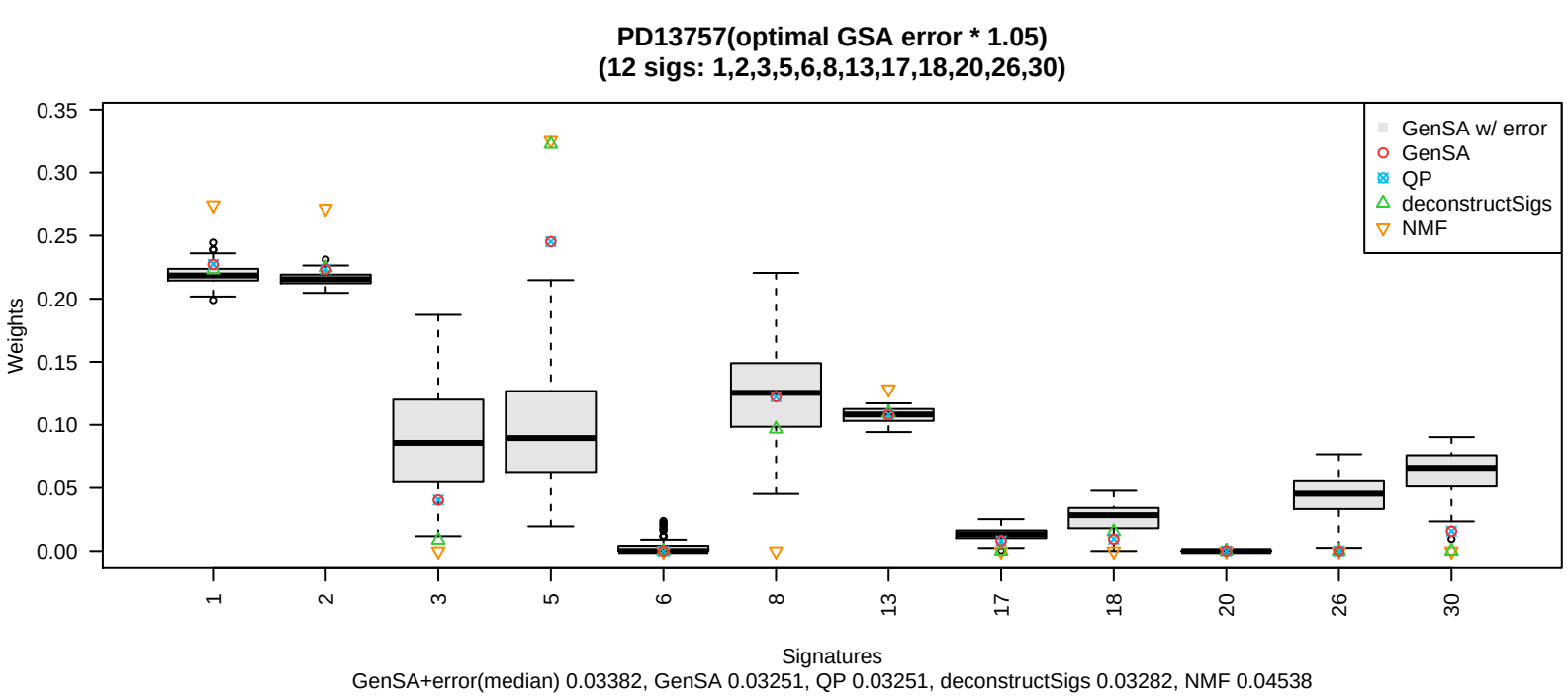

PD13752(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02722, GenSA 0.02600, QP 0.02600, deconstructSigs 0.02729, NMF 0.03002


PD13753(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02472, GenSA 0.02377, QP 0.02377, deconstructSigs 0.02421, NMF 0.10401

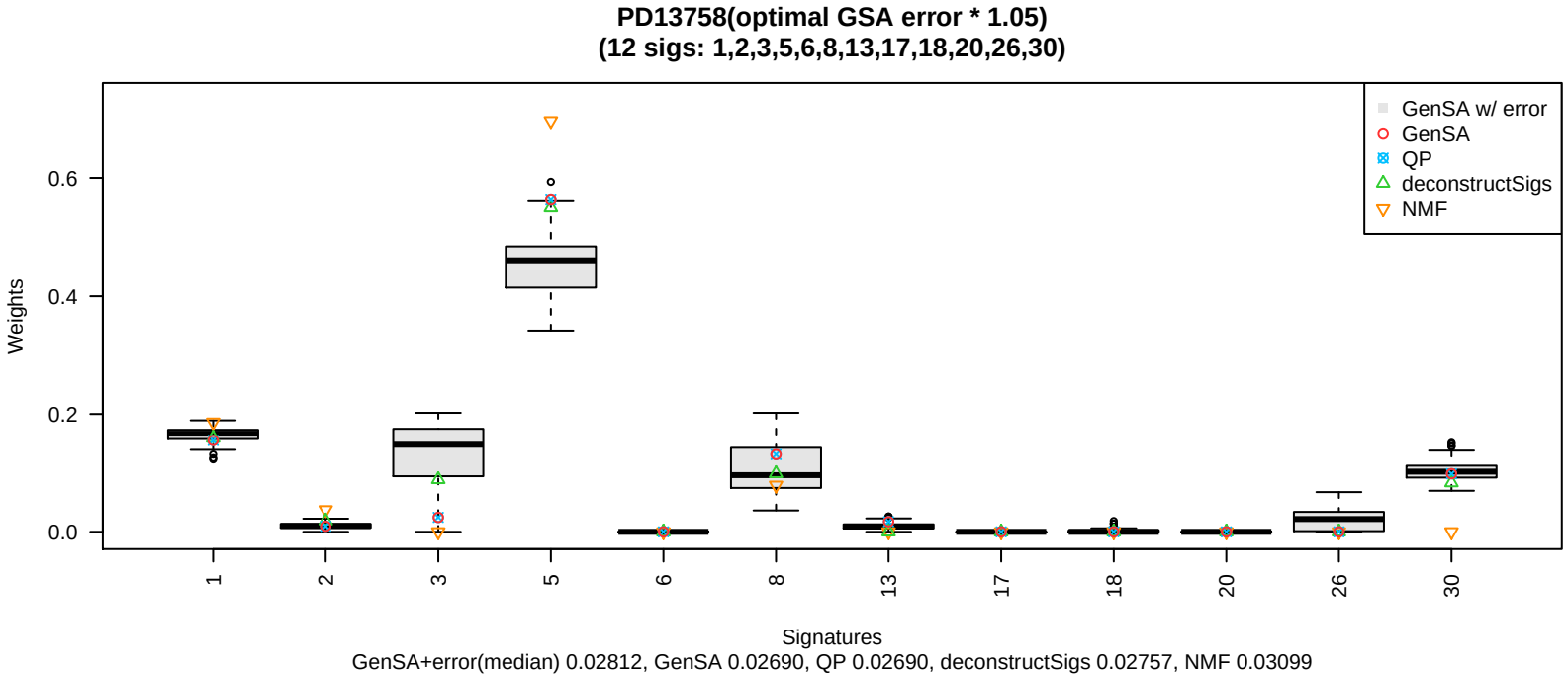

PD13754(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03618, GenSA 0.03456, QP 0.03456, deconstructSigs 0.03461, NMF 0.03513


PD13755(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03323, GenSA 0.03180, QP 0.03180, deconstructSigs 0.03291, NMF 0.03384

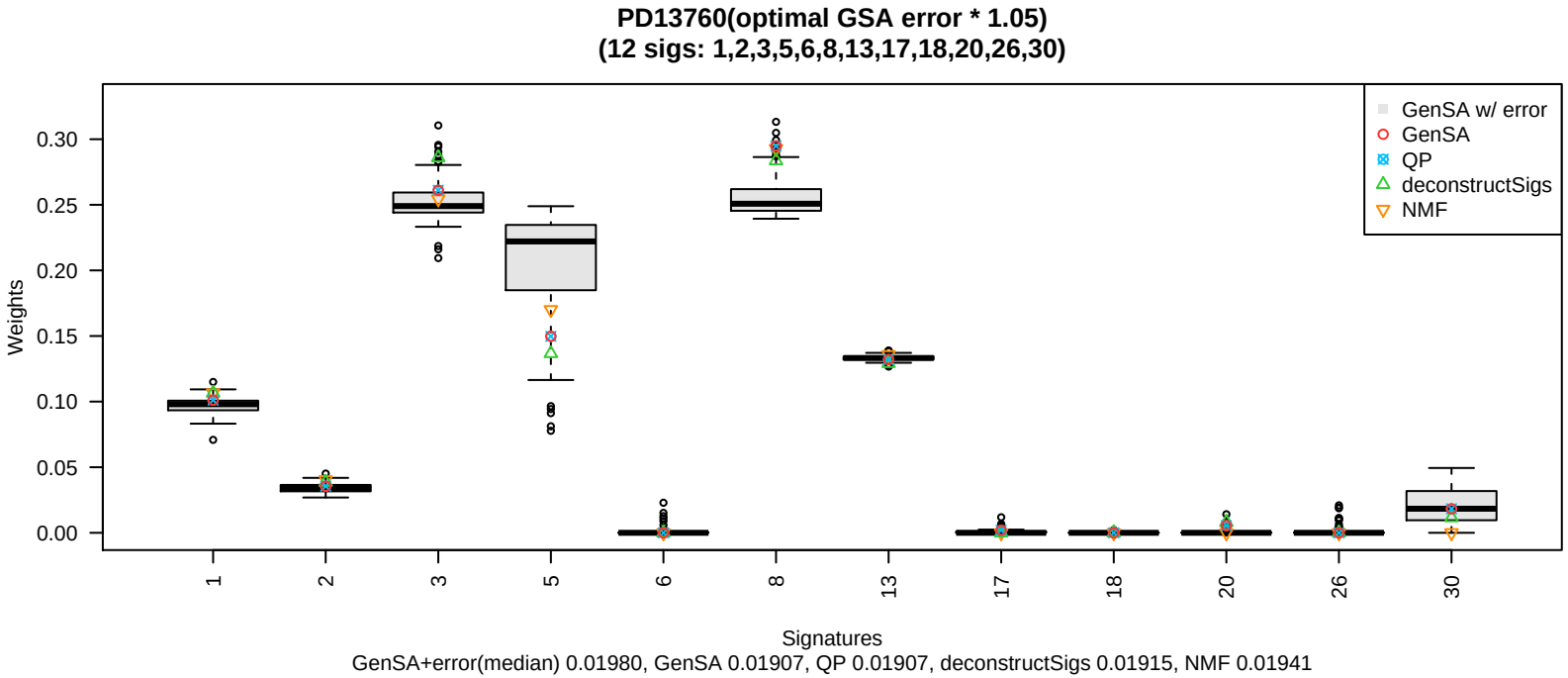

PD13756(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02983, GenSA 0.02846, QP 0.02846, deconstructSigs 0.02974, NMF 0.02947



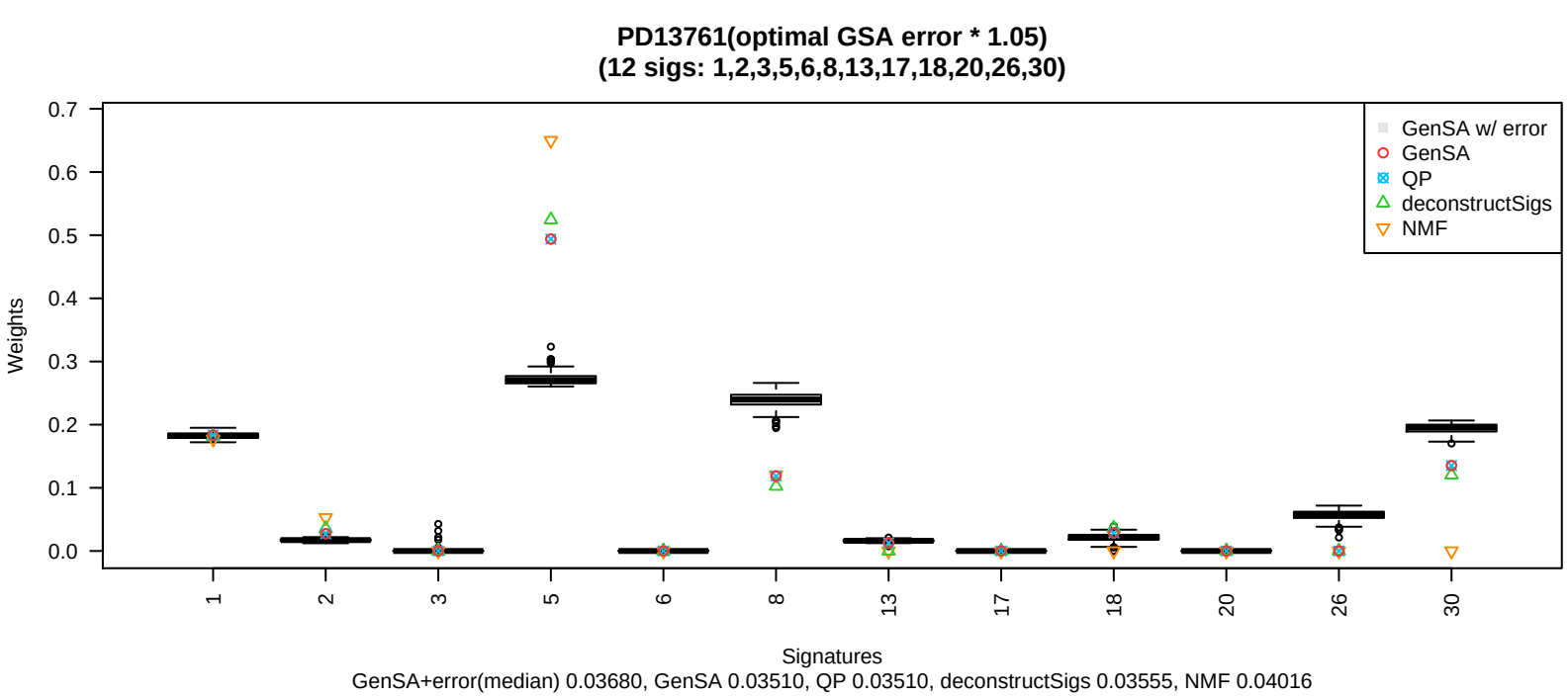
GenSA+error(median) 0.03382, GenSA 0.03251, QP 0.03251, deconstructSigs 0.03282, NMF 0.04538

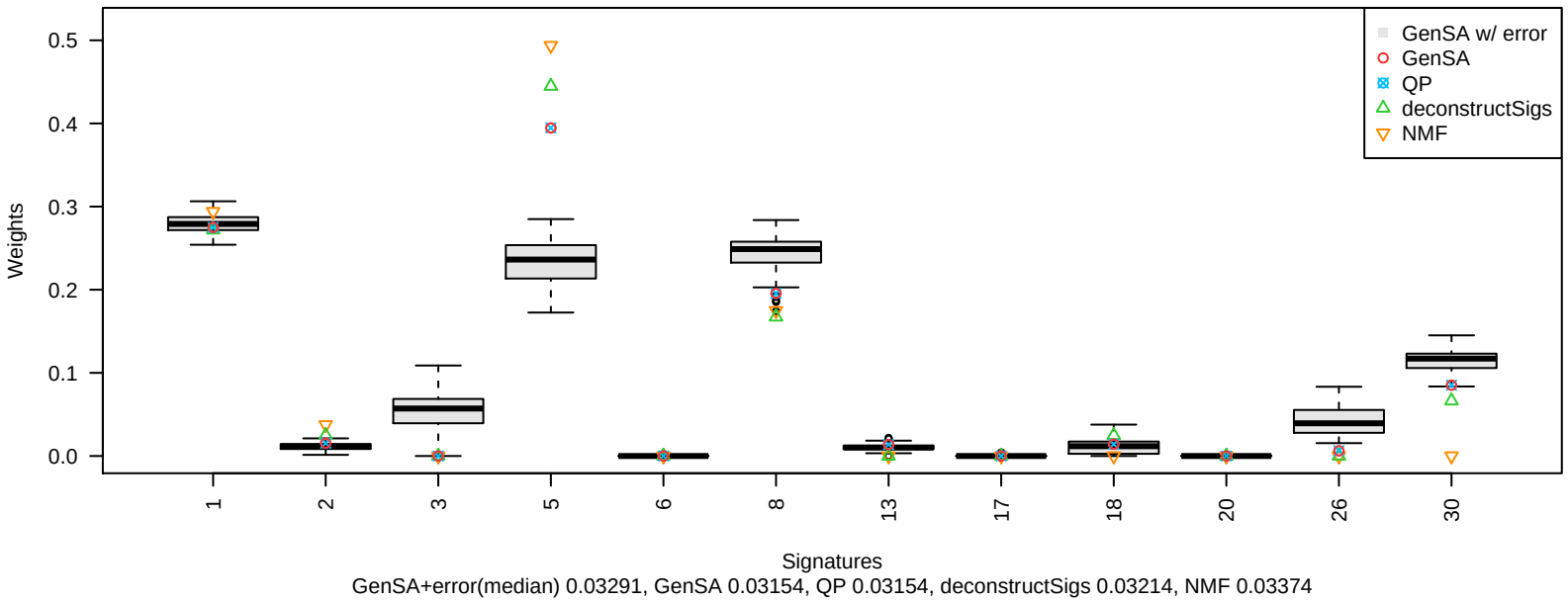


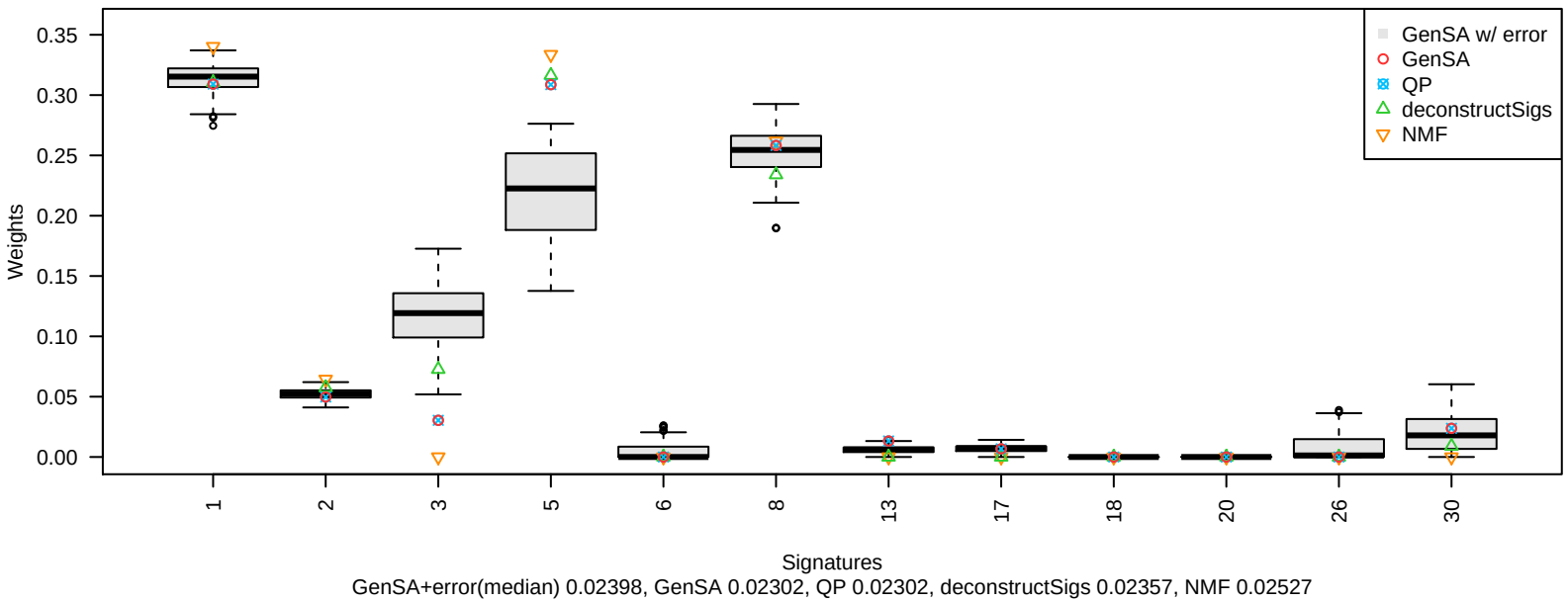
GenSA+error(median) 0.02812, GenSA 0.02690, QP 0.02690, deconstructSigs 0.02757, NMF 0.03099

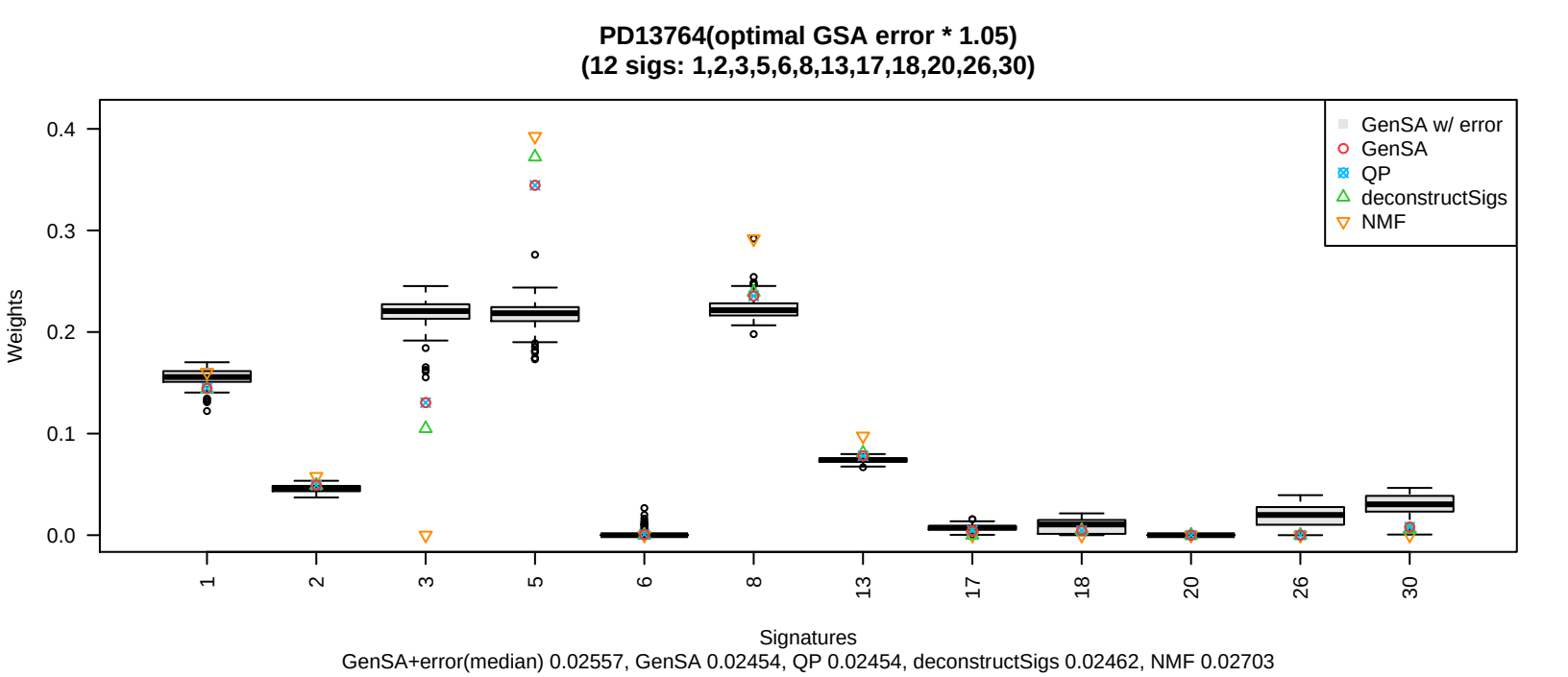


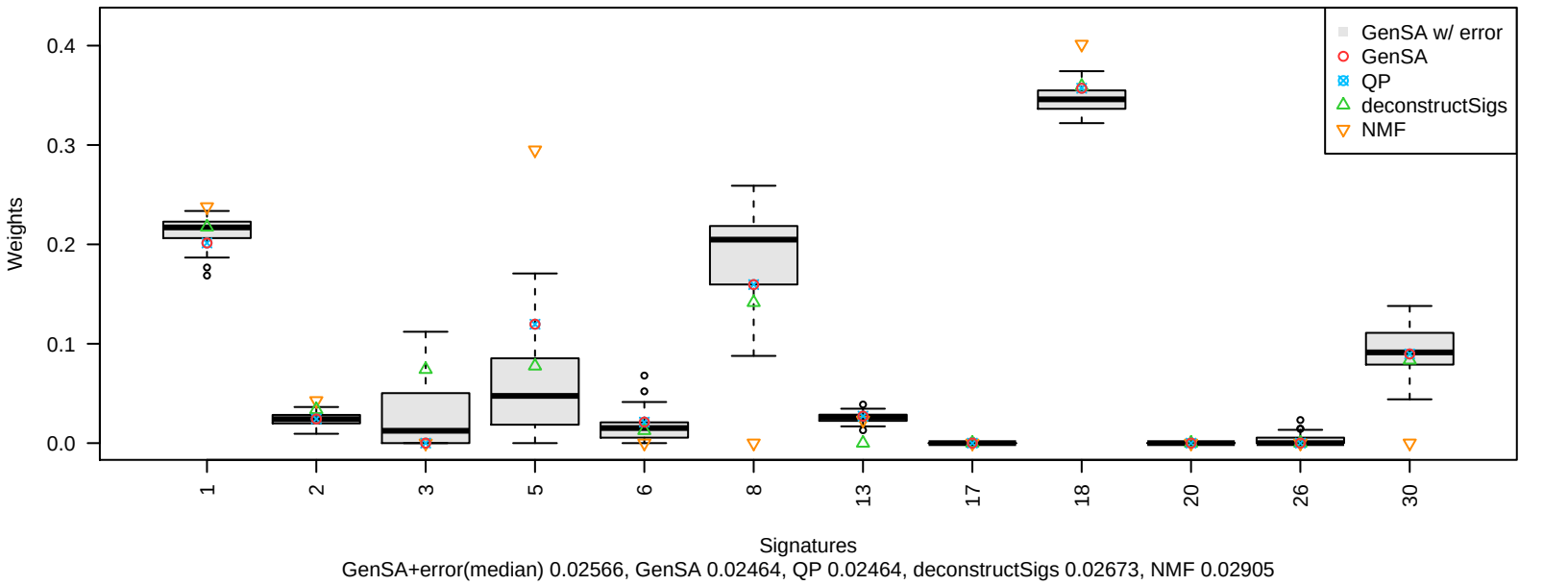
GenSA+error(median) 0.01980, GenSA 0.01907, QP 0.01907, deconstructSigs 0.01915, NMF 0.01941

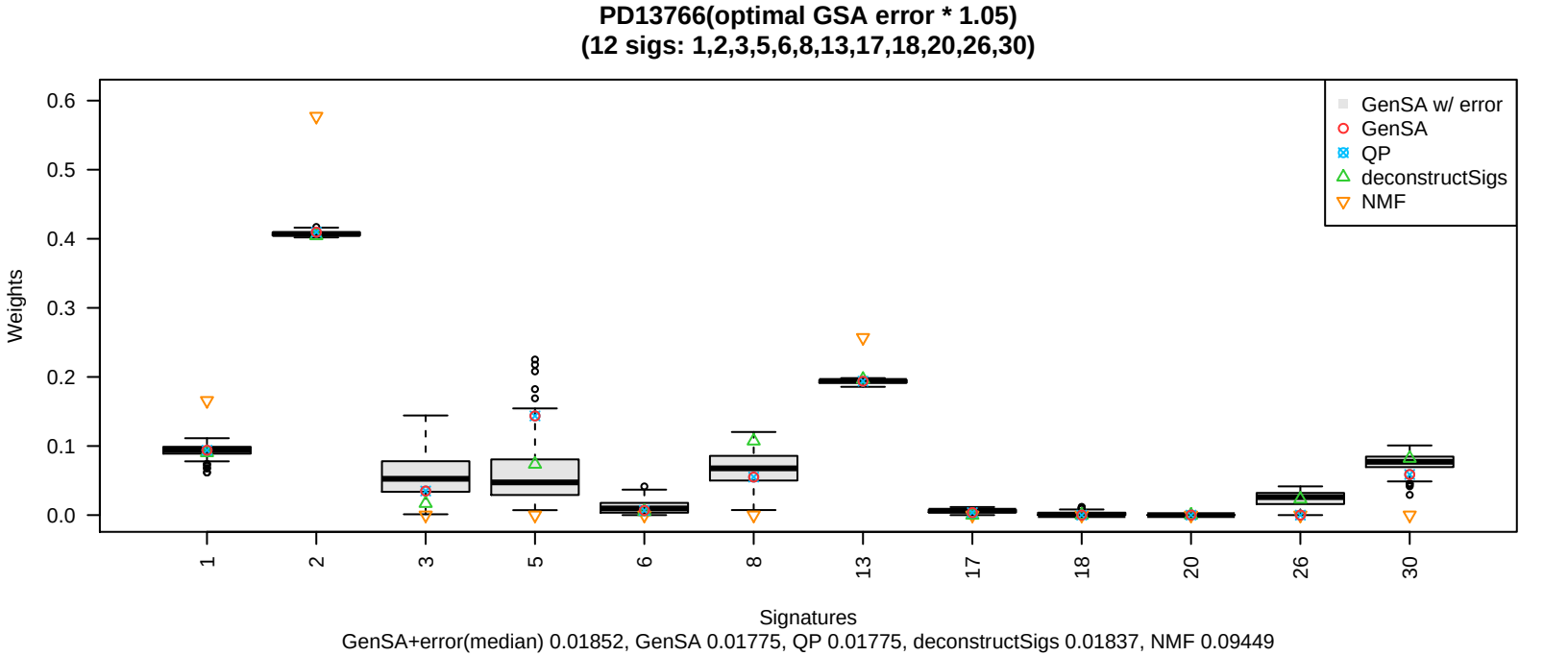

PD13761(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03680, GenSA 0.03510, QP 0.03510, deconstructSigs 0.03555, NMF 0.04016

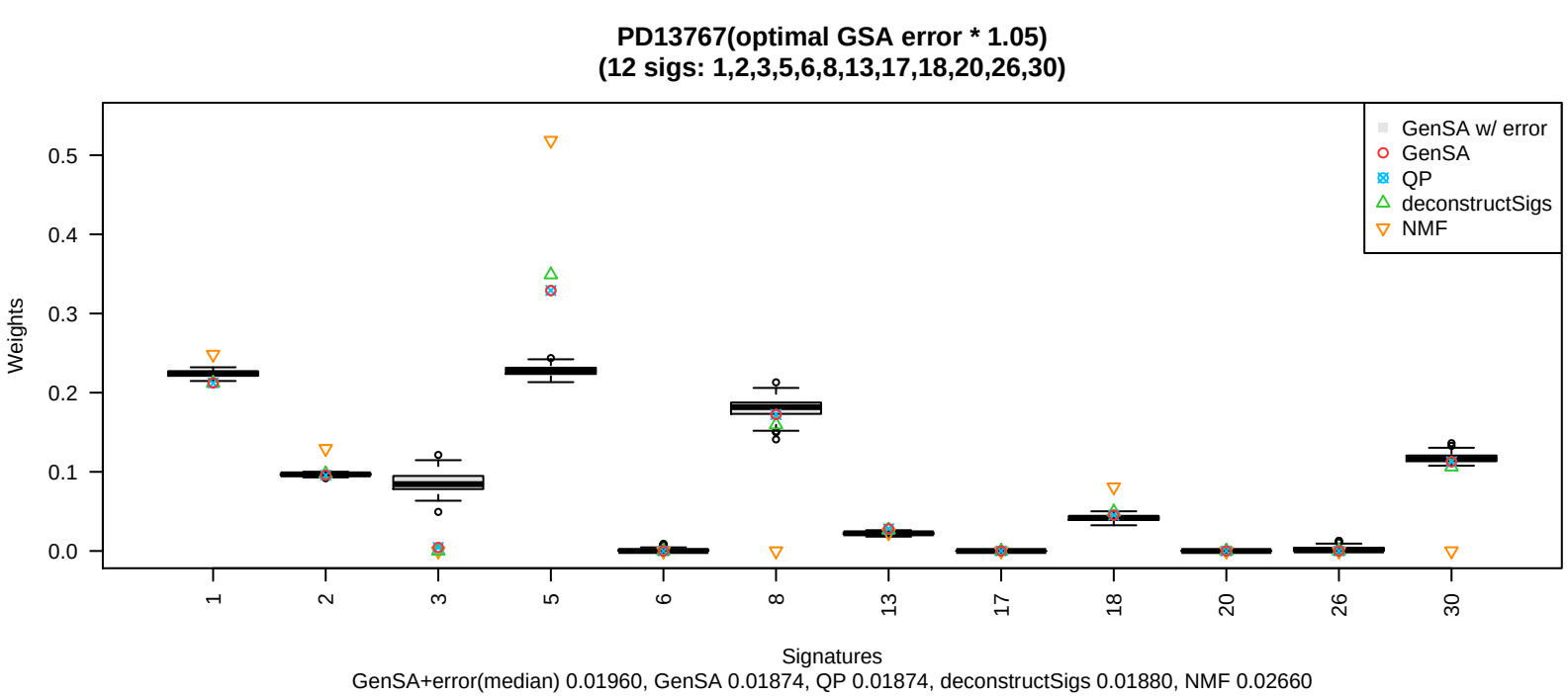

PD13762(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03291, GenSA 0.03154, QP 0.03154, deconstructSigs 0.03214, NMF 0.03374


PD13763(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02398, GenSA 0.02302, QP 0.02302, deconstructSigs 0.02357, NMF 0.02527

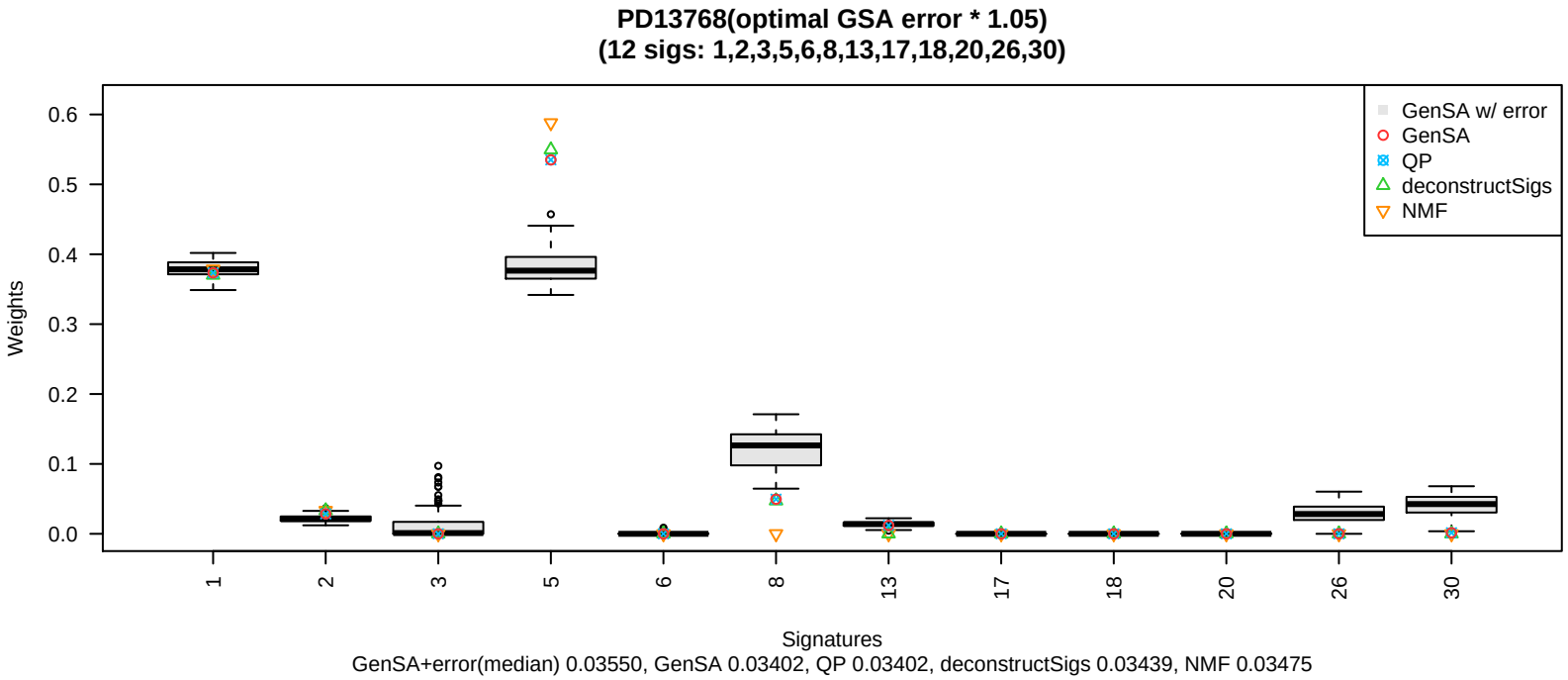

PD13764(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02557, GenSA 0.02454, QP 0.02454, deconstructSigs 0.02462, NMF 0.02703


PD13765(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02566, GenSA 0.02464, QP 0.02464, deconstructSigs 0.02673, NMF 0.02905

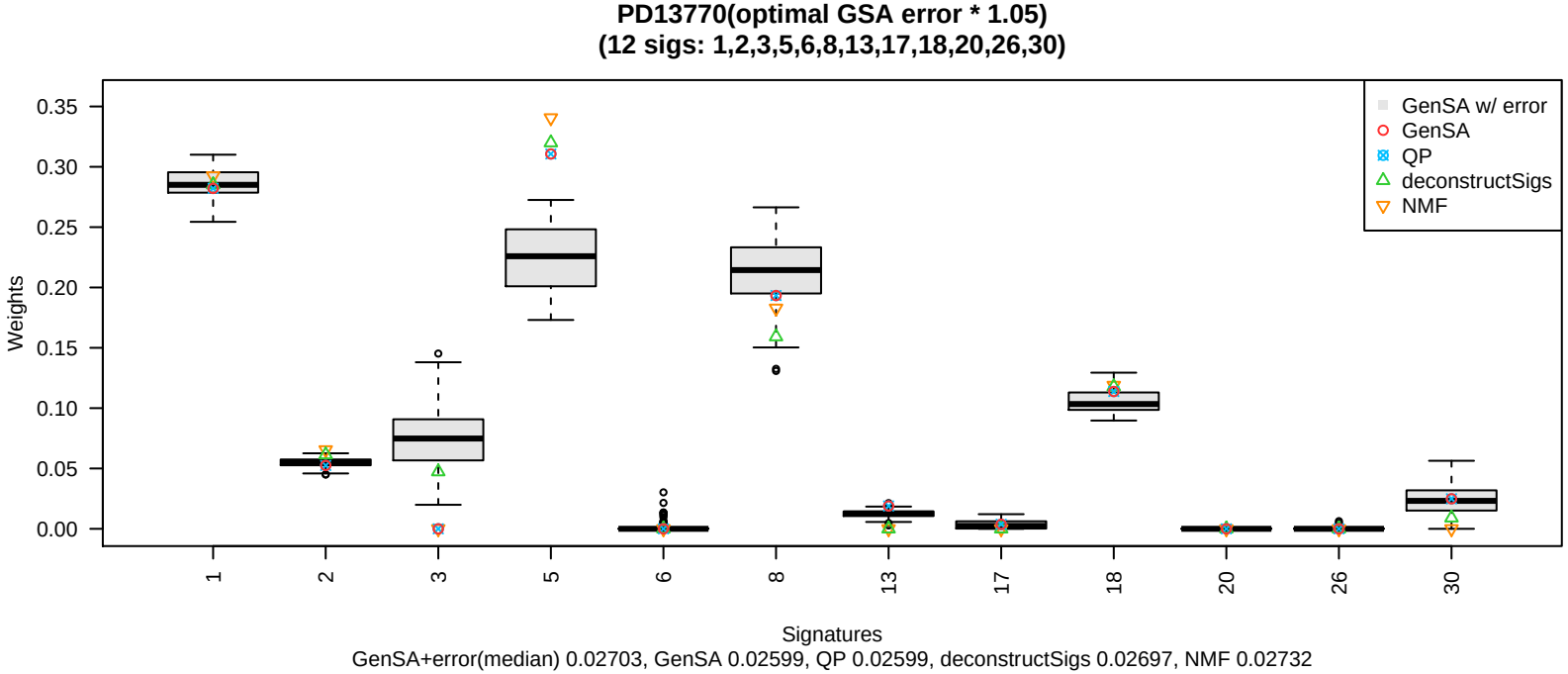

PD13766(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01852, GenSA 0.01775, QP 0.01775, deconstructSigs 0.01837, NMF 0.09449



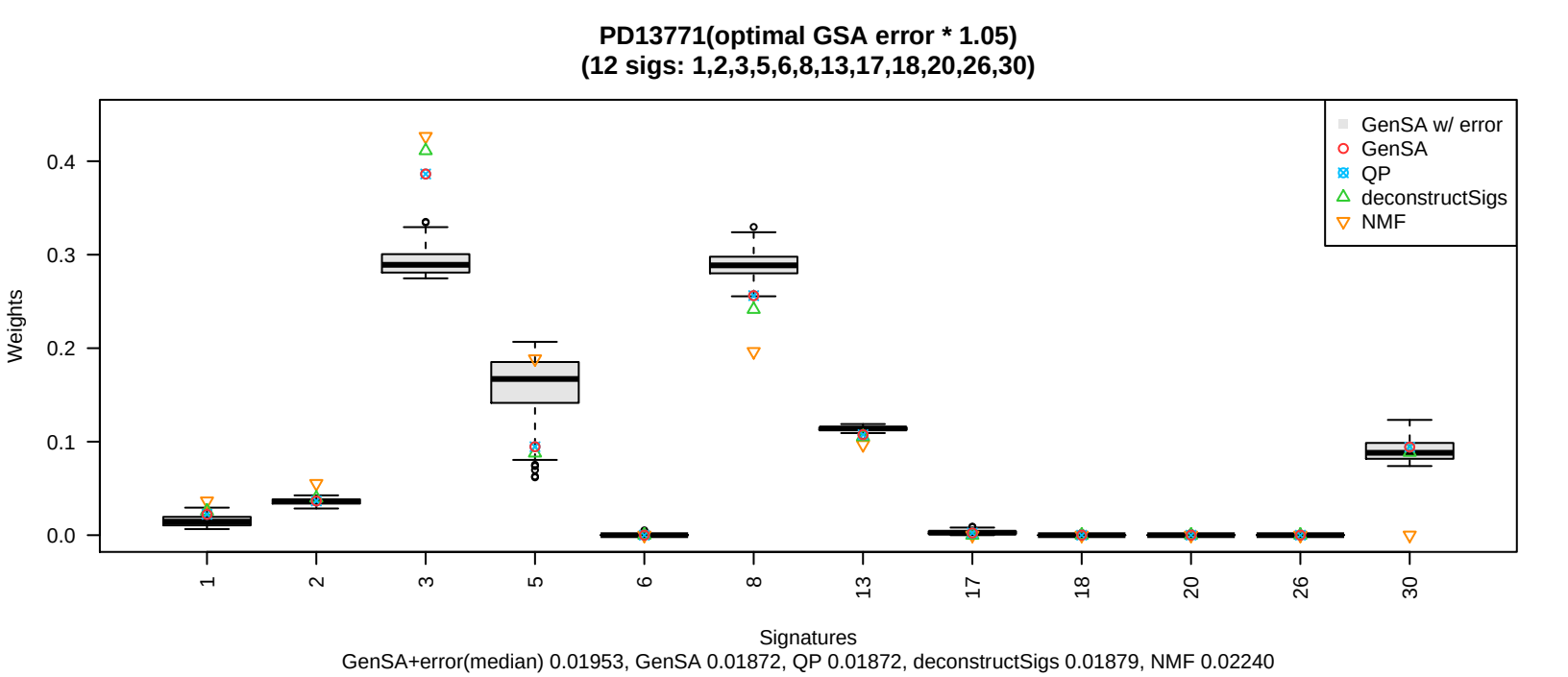
GenSA+error(median) 0.01960, GenSA 0.01874, QP 0.01874, deconstructSigs 0.01880, NMF 0.02660



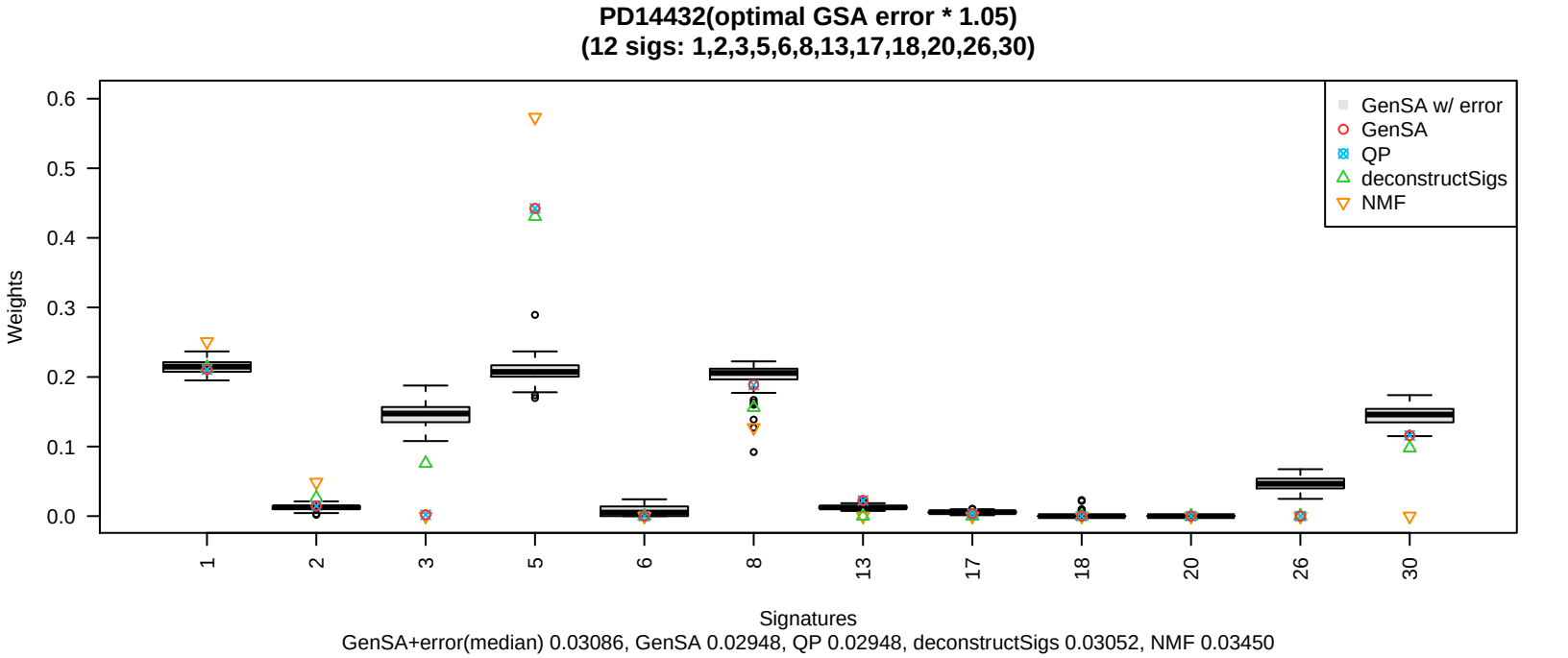
GenSA+error(median) 0.03550, GenSA 0.03402, QP 0.03402, deconstructSigs 0.03439, NMF 0.03475



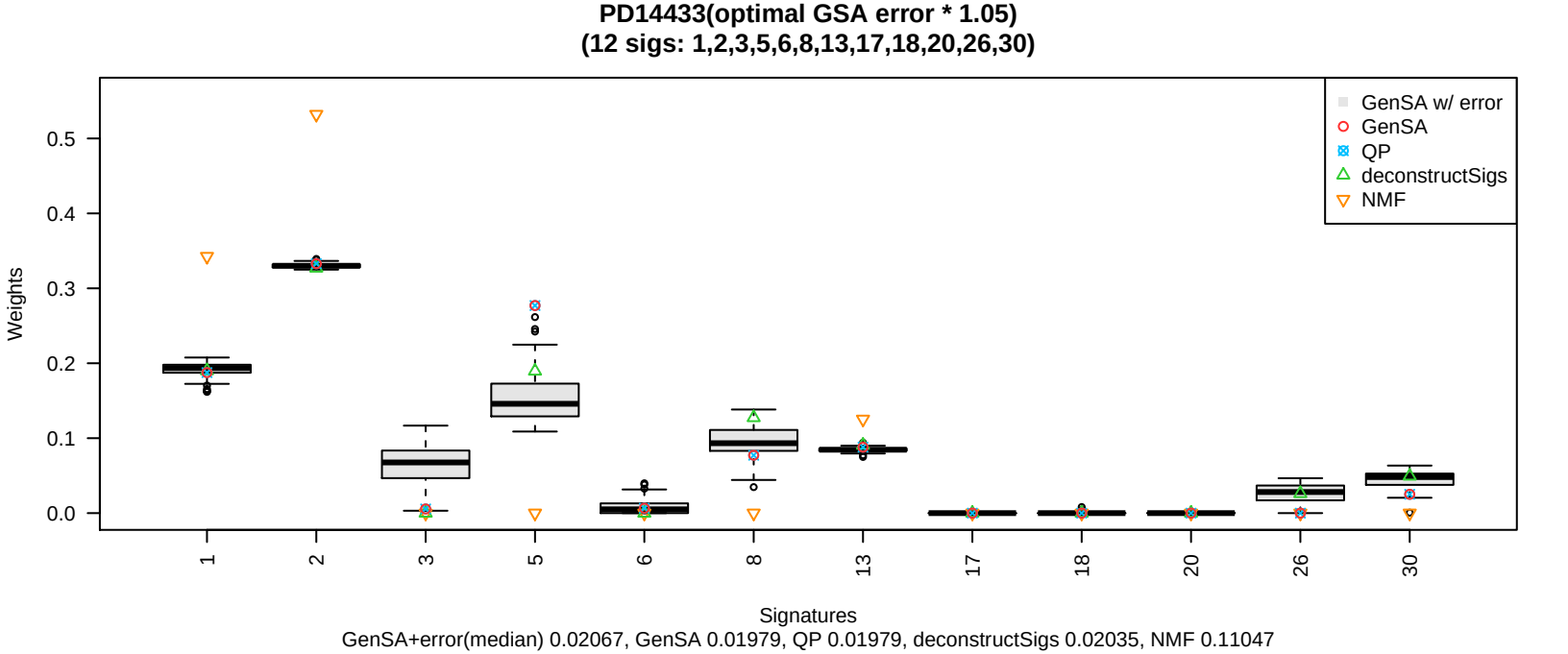
GenSA+error(median) 0.02703, GenSA 0.02599, QP 0.02599, deconstructSigs 0.02697, NMF 0.02732



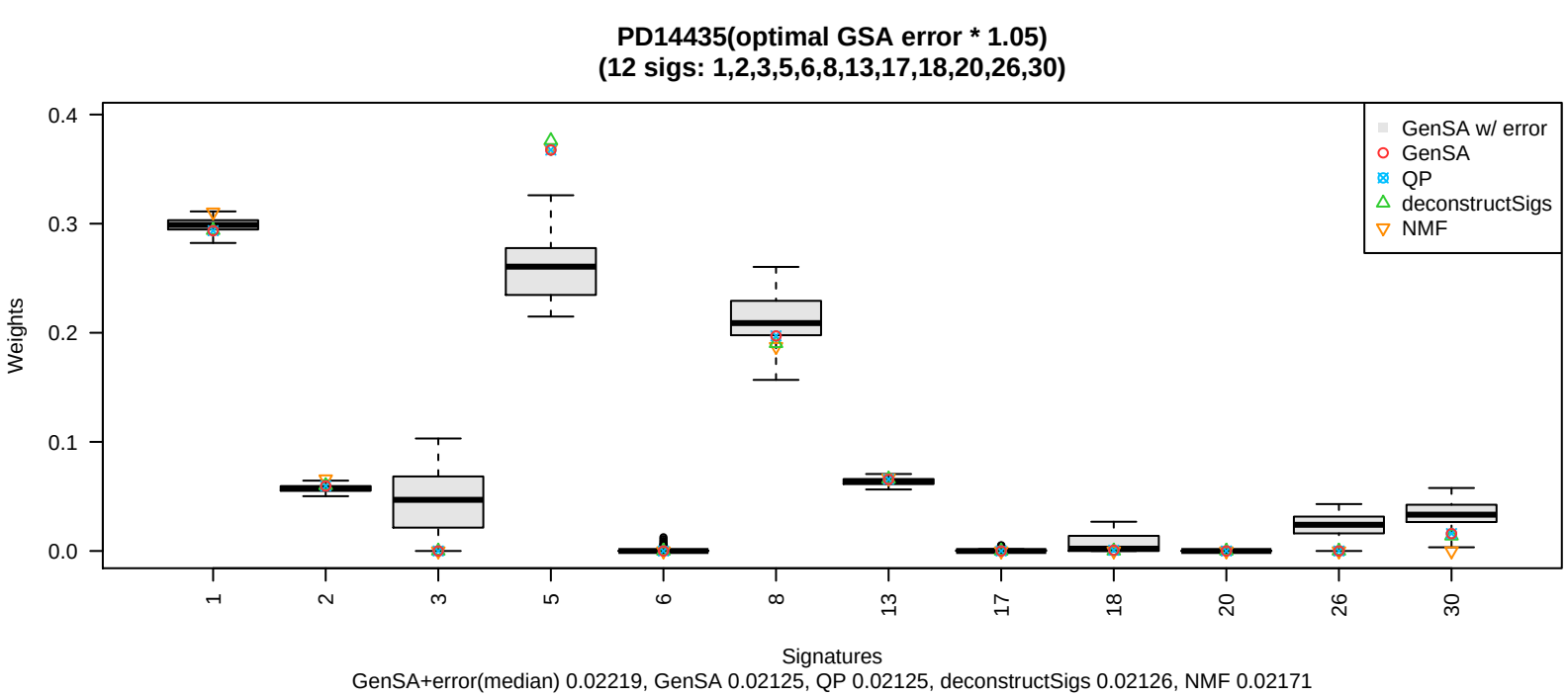
GenSA+error(median) 0.01953, GenSA 0.01872, QP 0.01872, deconstructSigs 0.01879, NMF 0.02240



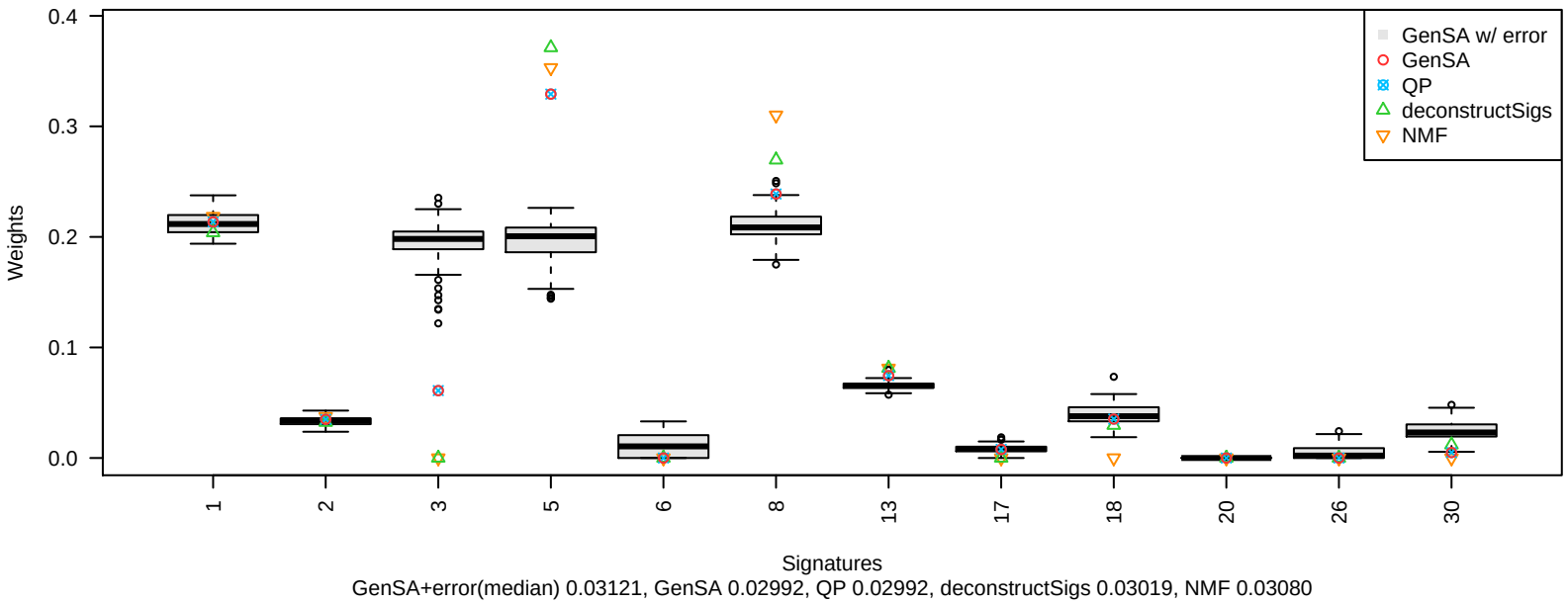
GenSA+error(median) 0.03086, GenSA 0.02948, QP 0.02948, deconstructSigs 0.03052, NMF 0.03450



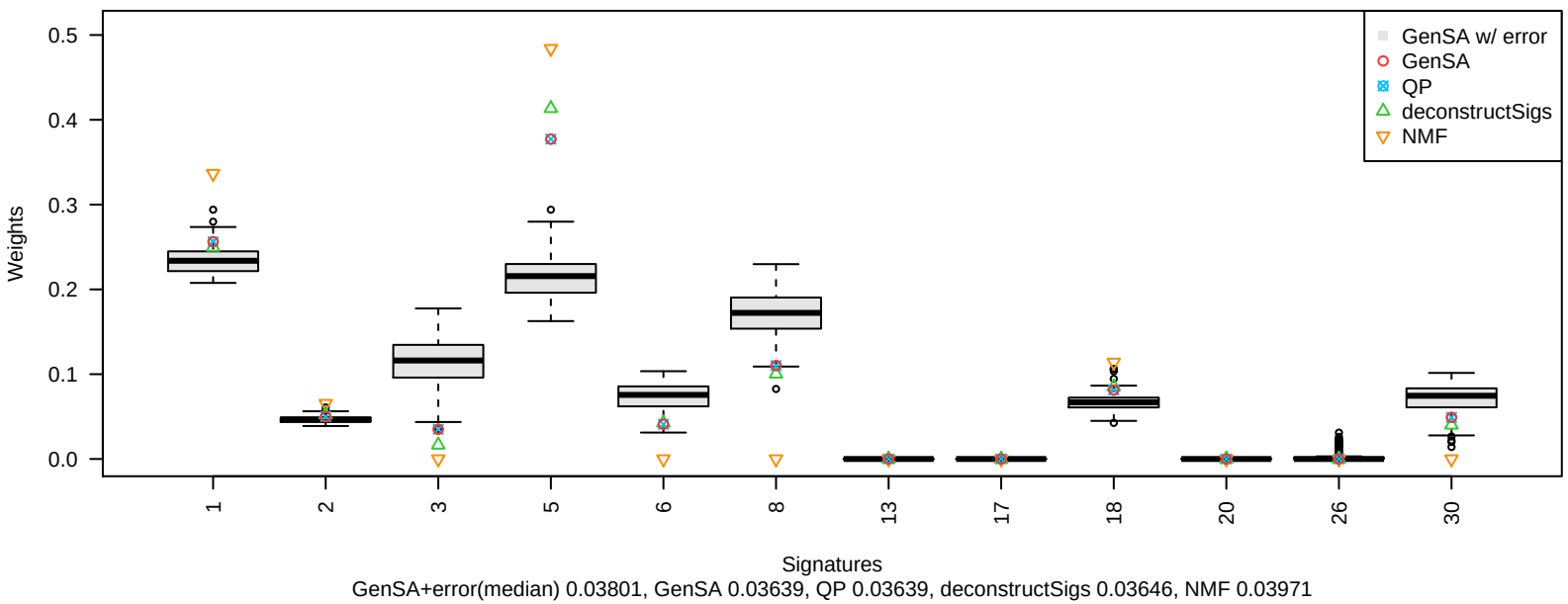
GenSA+error(median) 0.02067, GenSA 0.01979, QP 0.01979, deconstructSigs 0.02035, NMF 0.11047



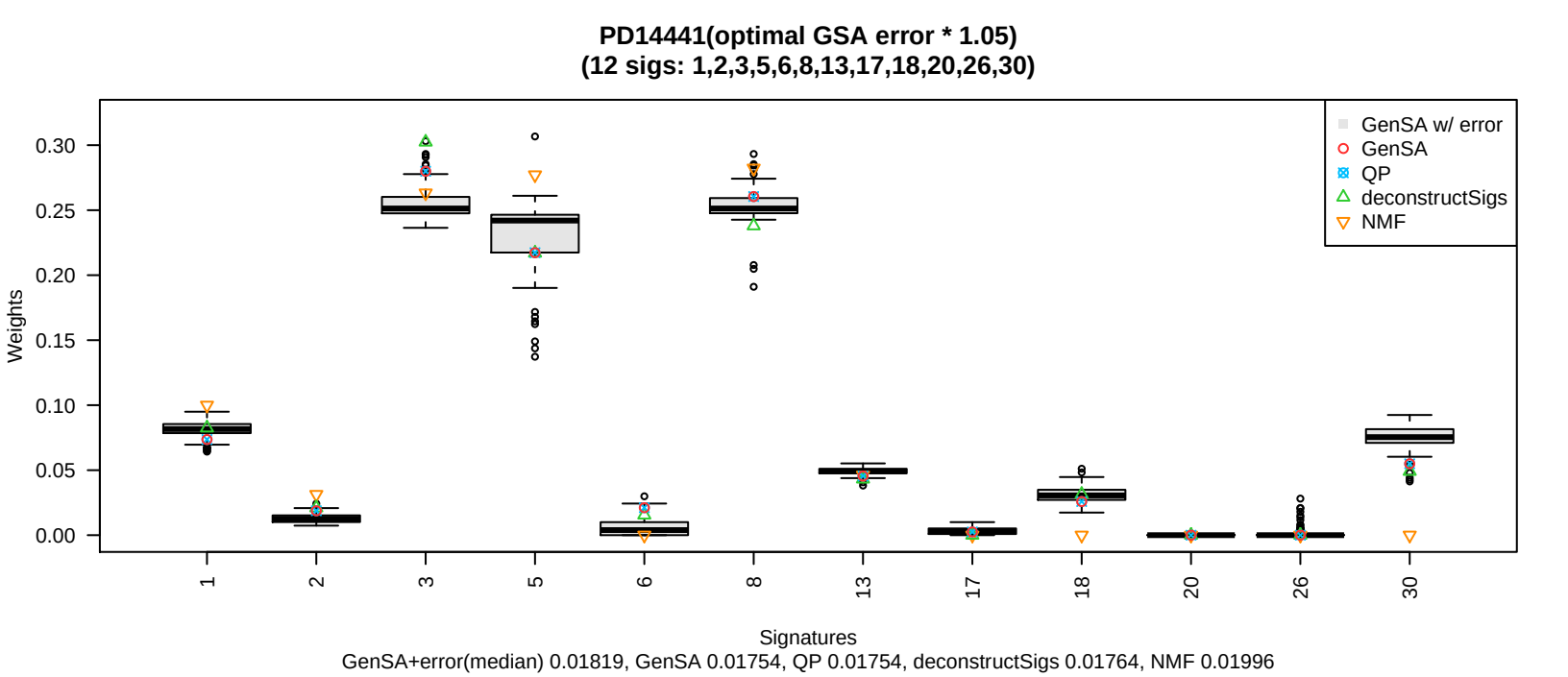
GenSA+error(median) 0.02219, GenSA 0.02125, QP 0.02125, deconstructSigs 0.02126, NMF 0.02171



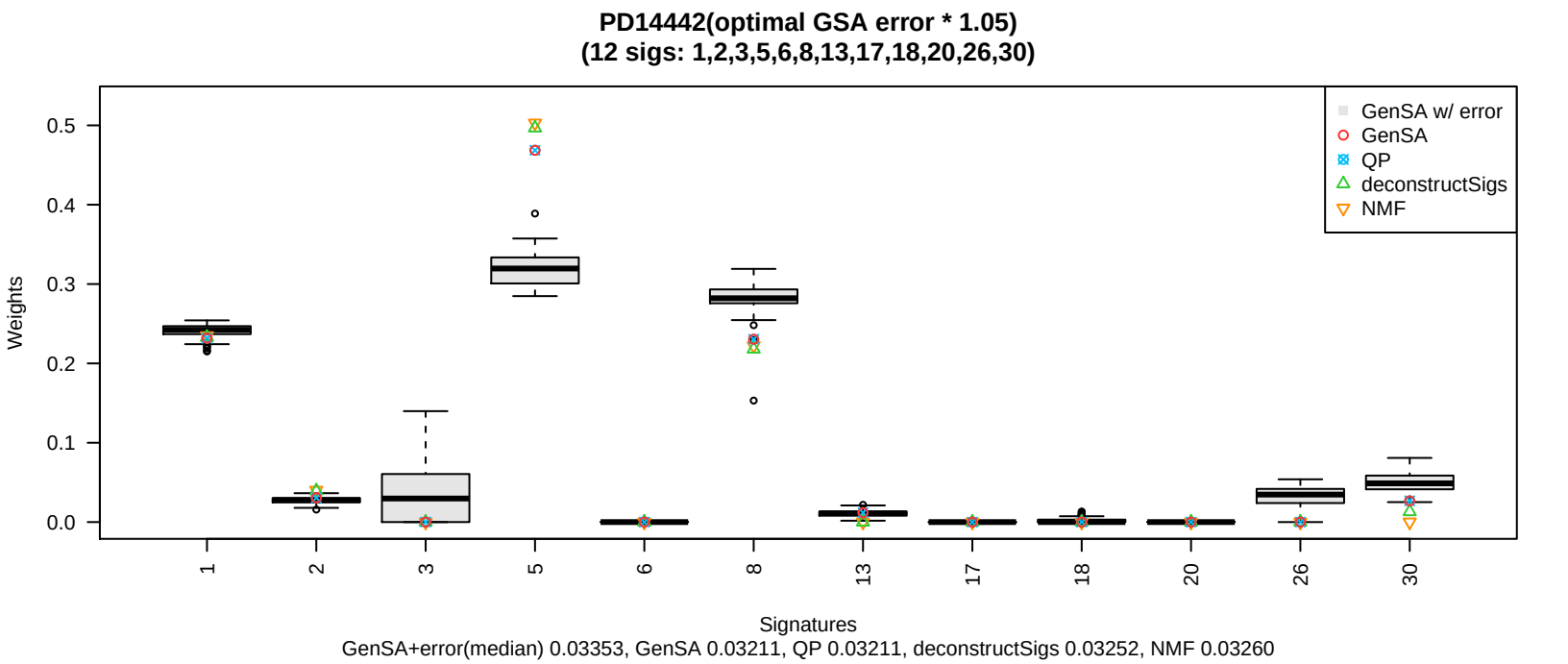
GenSA+error(median) 0.03121, GenSA 0.02992, QP 0.02992, deconstructSigs 0.03019, NMF 0.03080



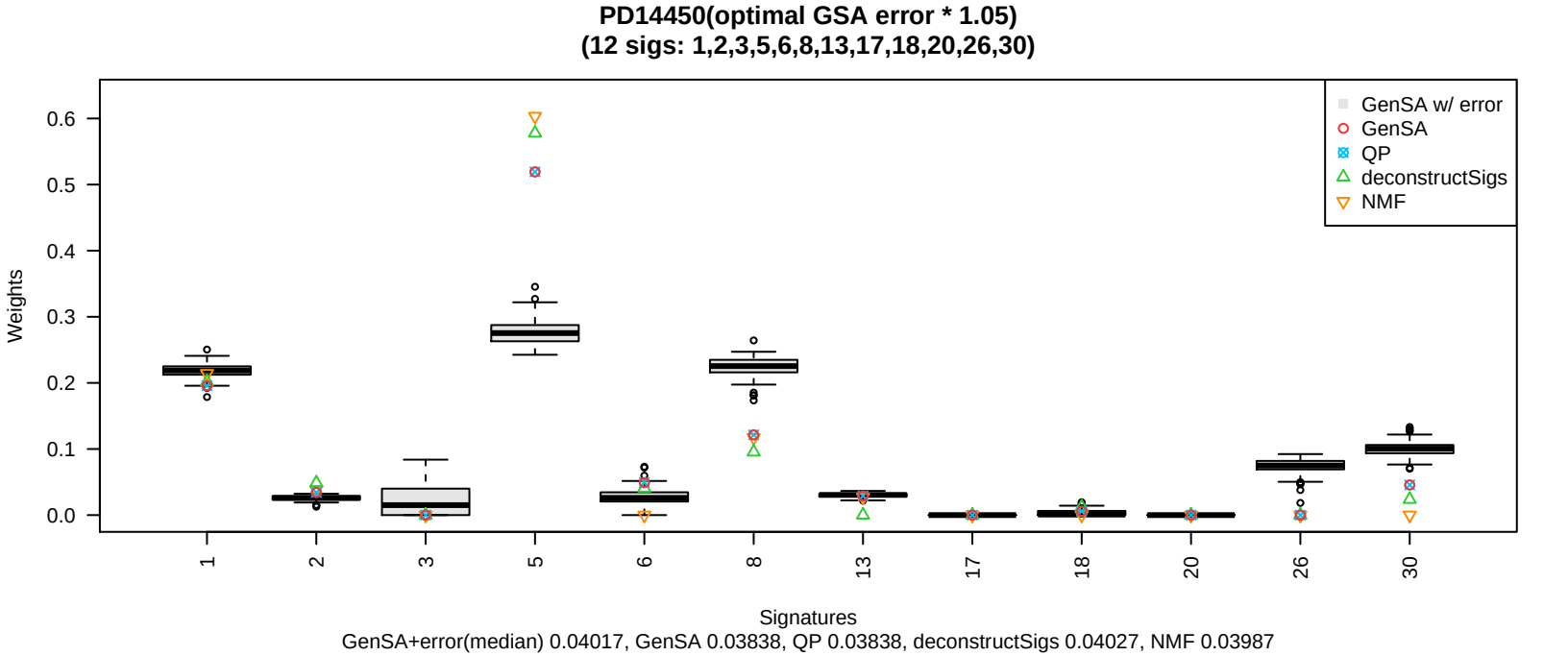
GenSA+error(median) 0.03801, GenSA 0.03639, QP 0.03639, deconstructSigs 0.03646, NMF 0.03971



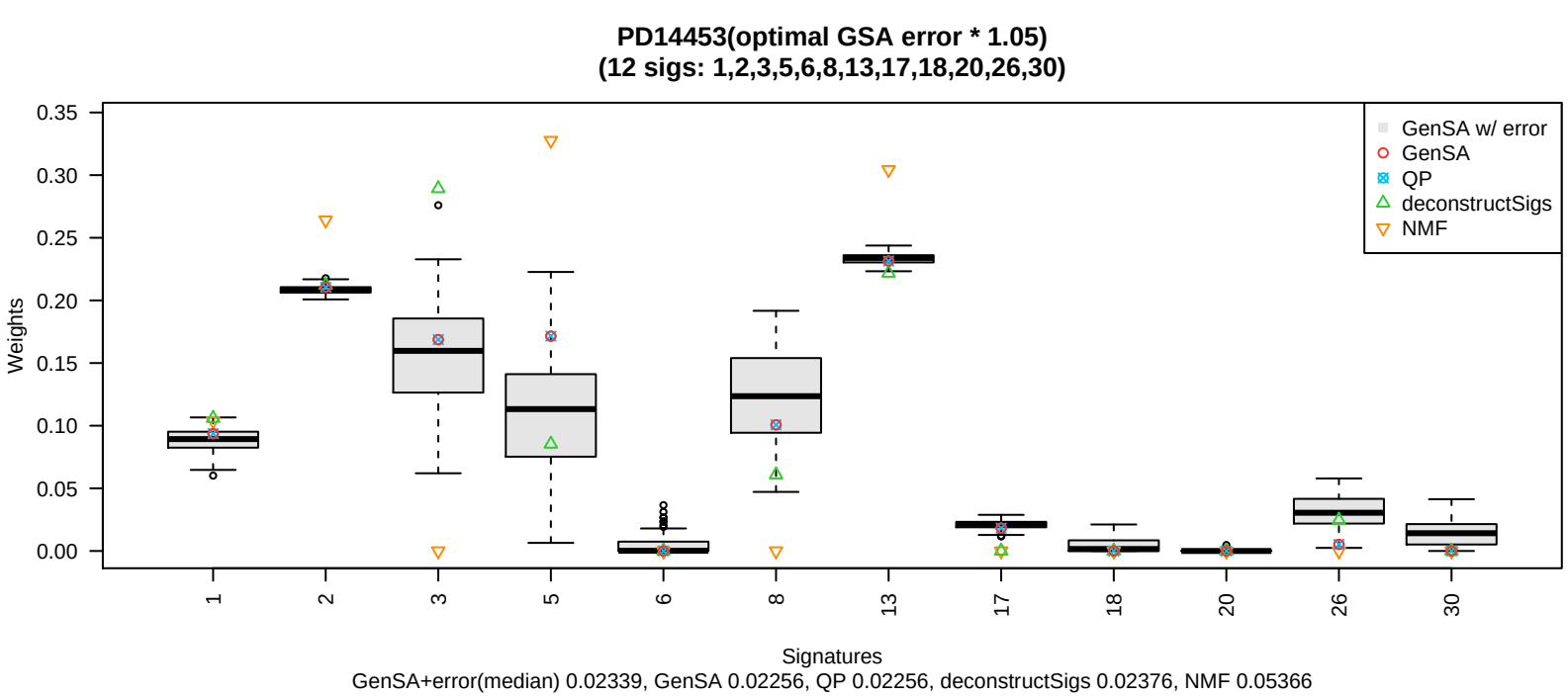
GenSA+error(median) 0.01819, GenSA 0.01754, QP 0.01754, deconstructSigs 0.01764, NMF 0.01996



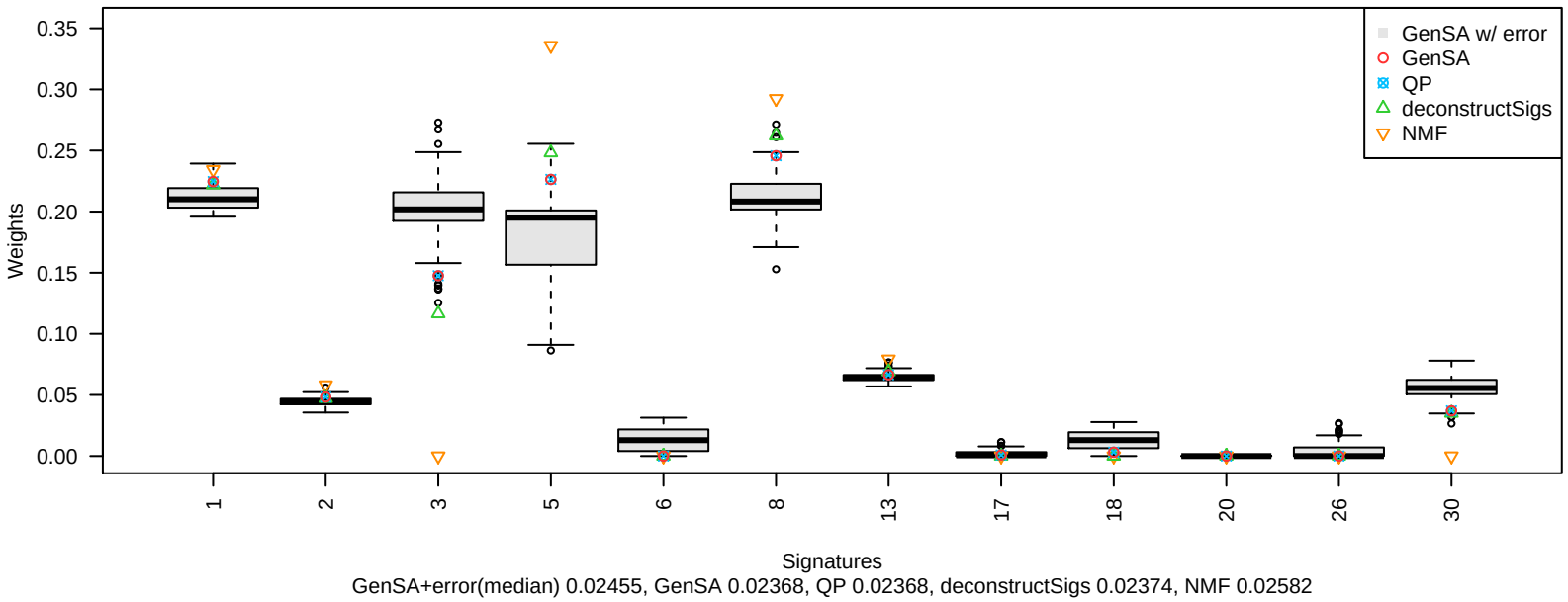
GenSA+error(median) 0.03353, GenSA 0.03211, QP 0.03211, deconstructSigs 0.03252, NMF 0.03260



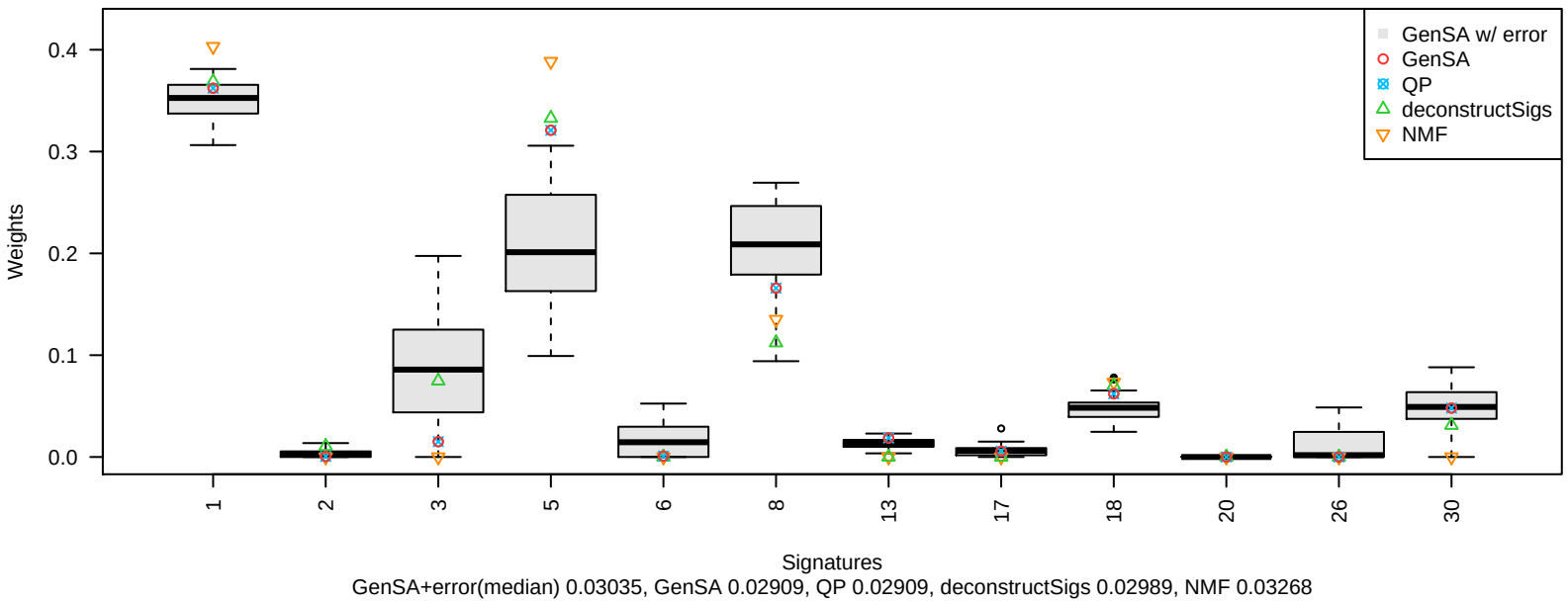
GenSA+error(median) 0.04017, GenSA 0.03838, QP 0.03838, deconstructSigs 0.04027, NMF 0.03987



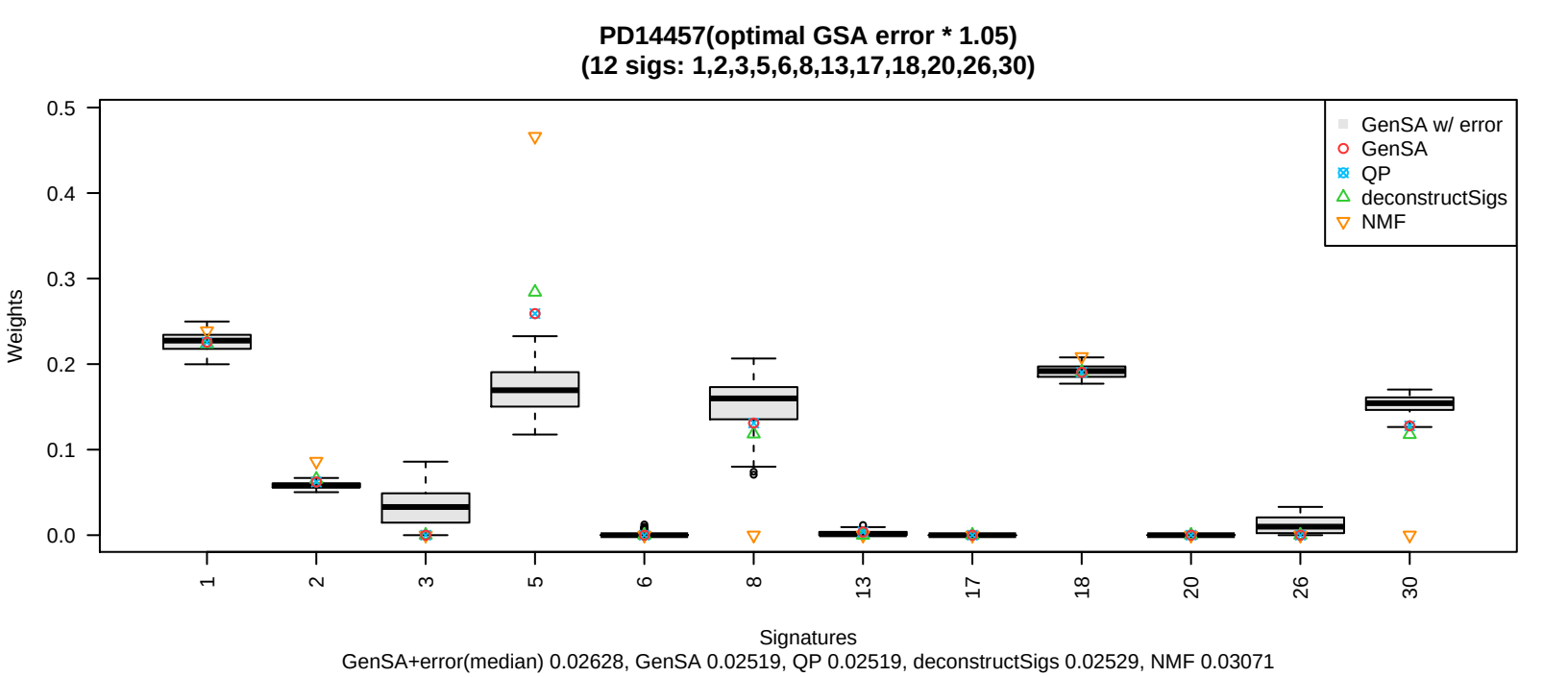
GenSA+error(median) 0.02339, GenSA 0.02256, QP 0.02256, deconstructSigs 0.02376, NMF 0.05366

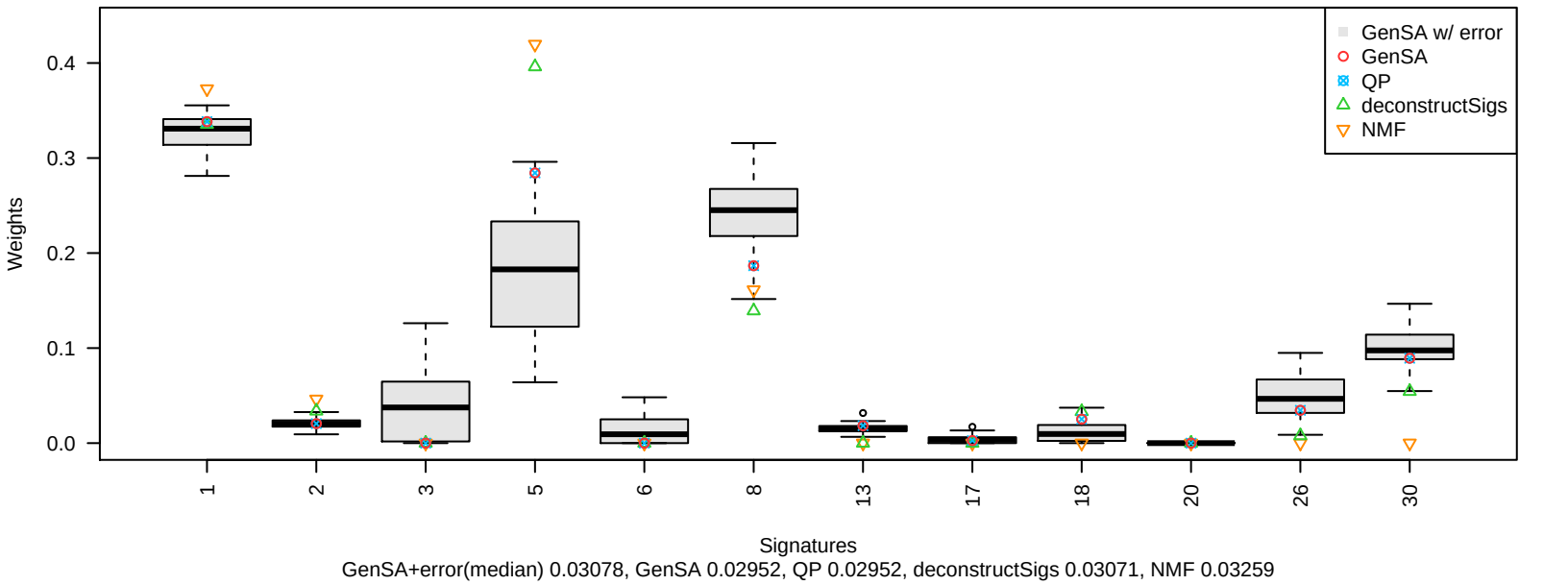


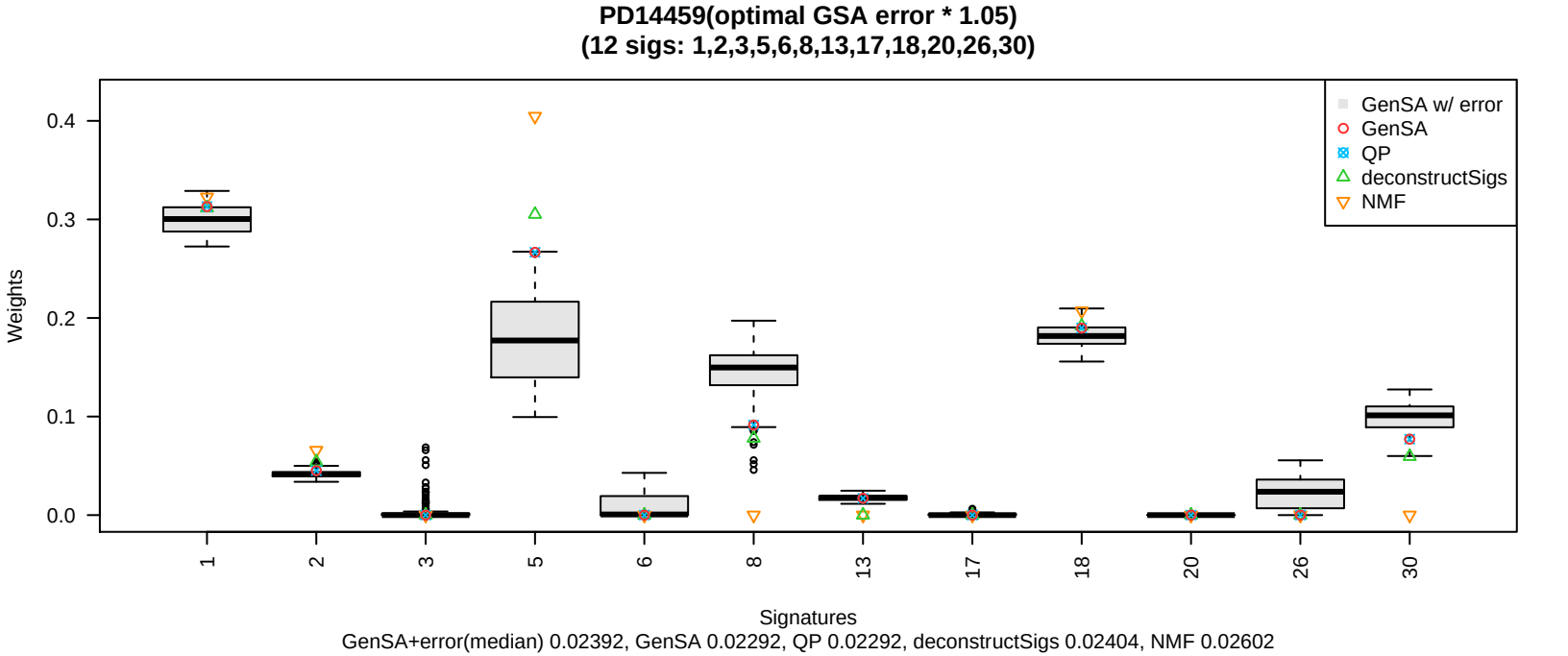
GenSA+error(median) 0.02455, GenSA 0.02368, QP 0.02368, deconstructSigs 0.02374, NMF 0.02582

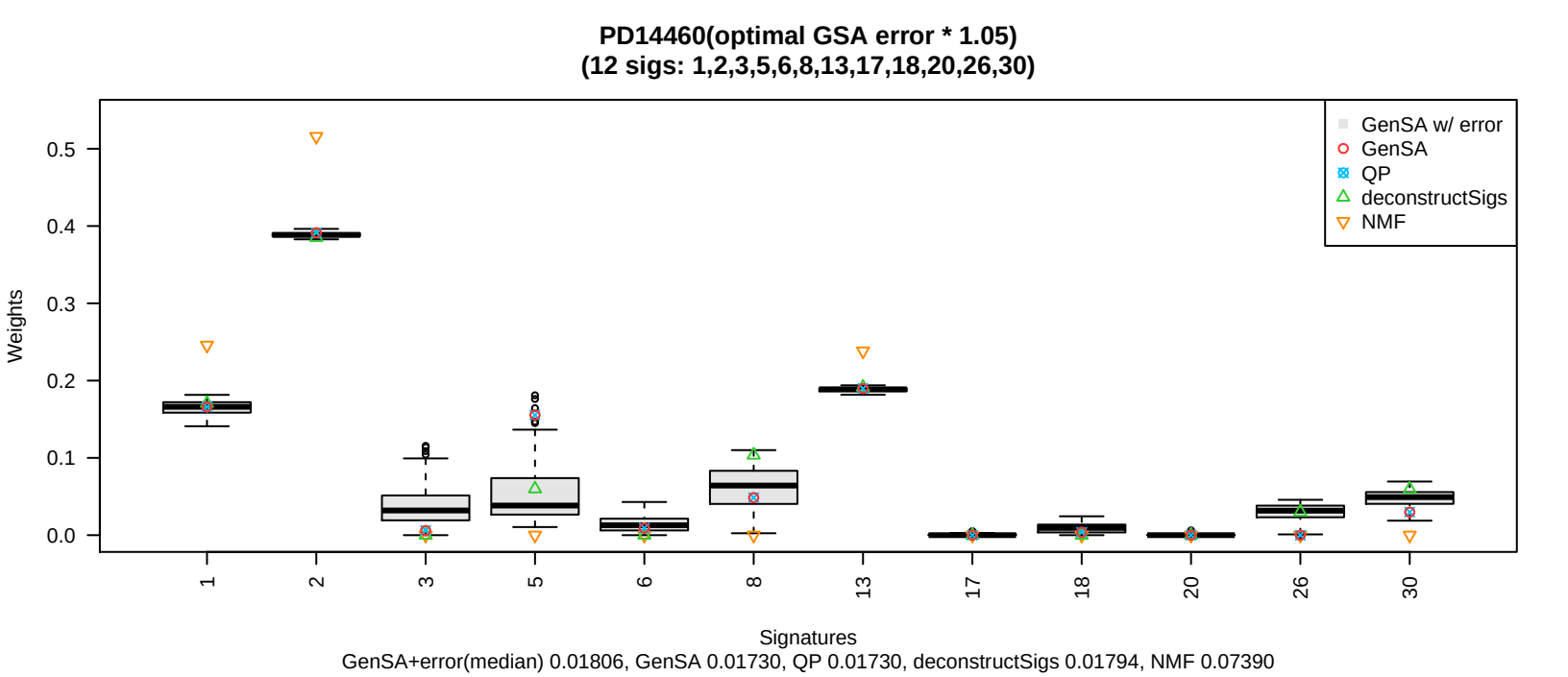


GenSA+error(median) 0.03035, GenSA 0.02909, QP 0.02909, deconstructSigs 0.02989, NMF 0.03268

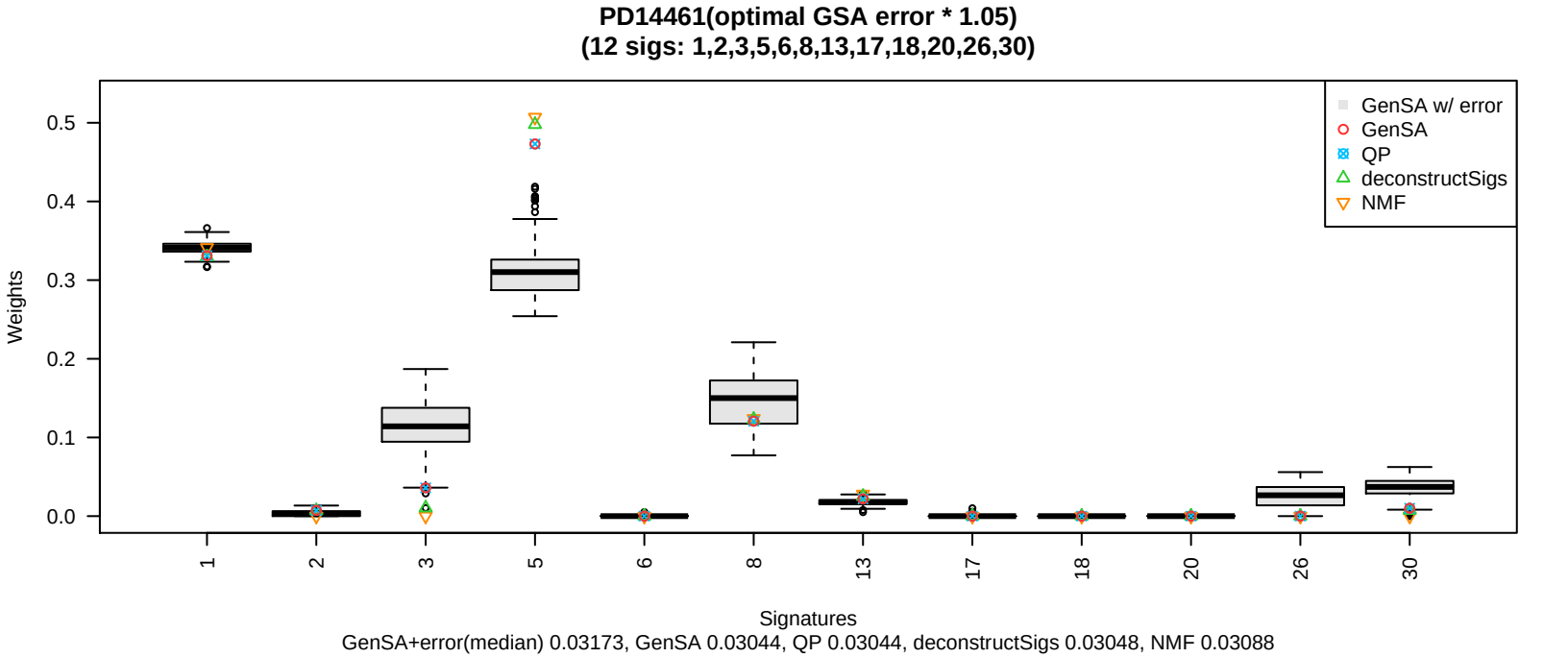

PD14457(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02628, GenSA 0.02519, QP 0.02519, deconstructSigs 0.02529, NMF 0.03071


PD14458(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03078, GenSA 0.02952, QP 0.02952, deconstructSigs 0.03071, NMF 0.03259

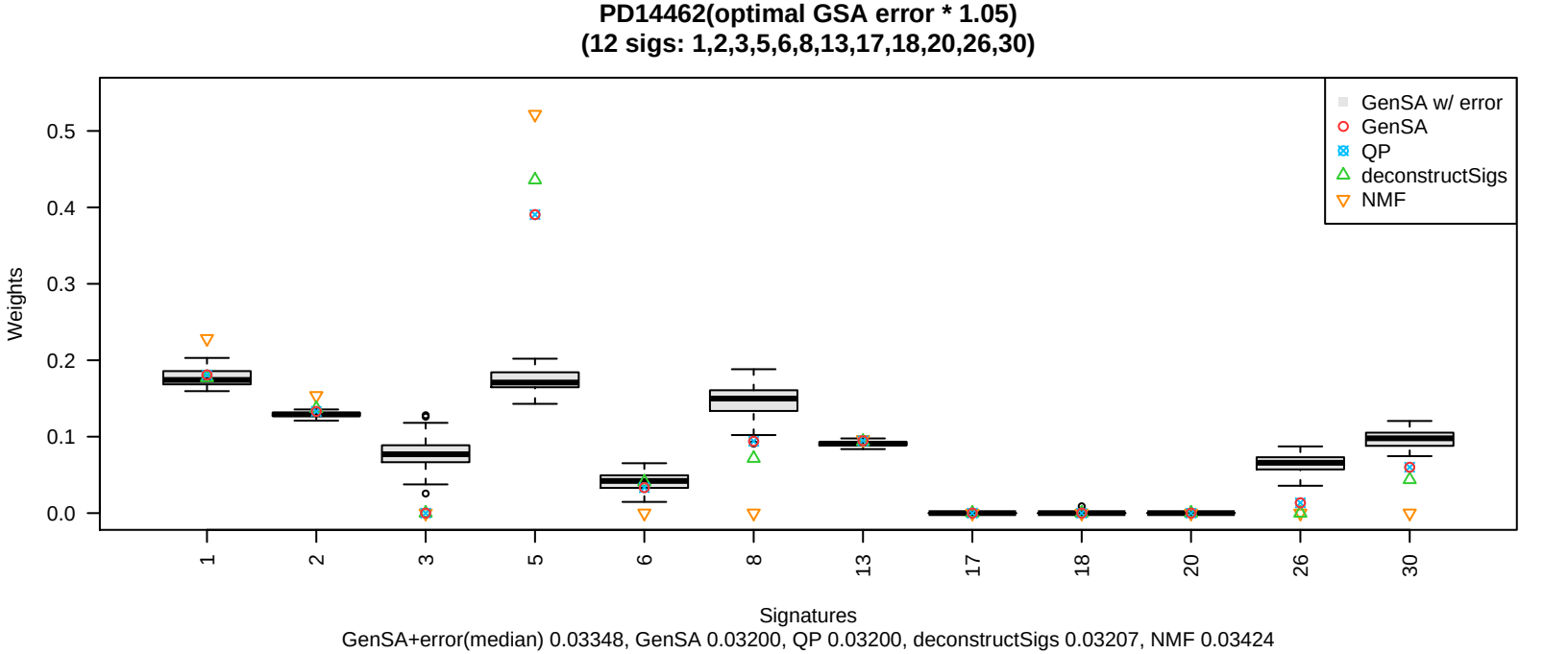

PD14459(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02392, GenSA 0.02292, QP 0.02292, deconstructSigs 0.02404, NMF 0.02602



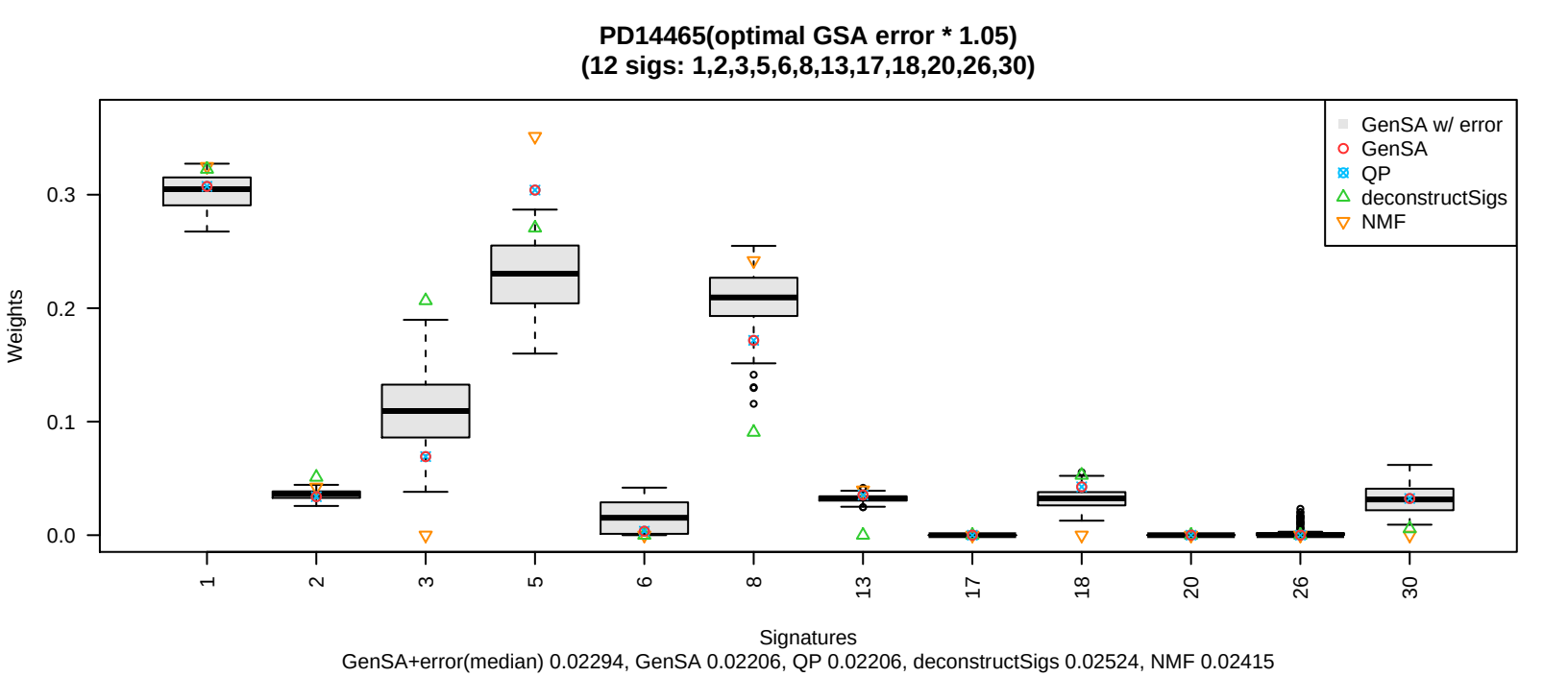
GenSA+error(median) 0.01806, GenSA 0.01730, QP 0.01730, deconstructSigs 0.01794, NMF 0.07390



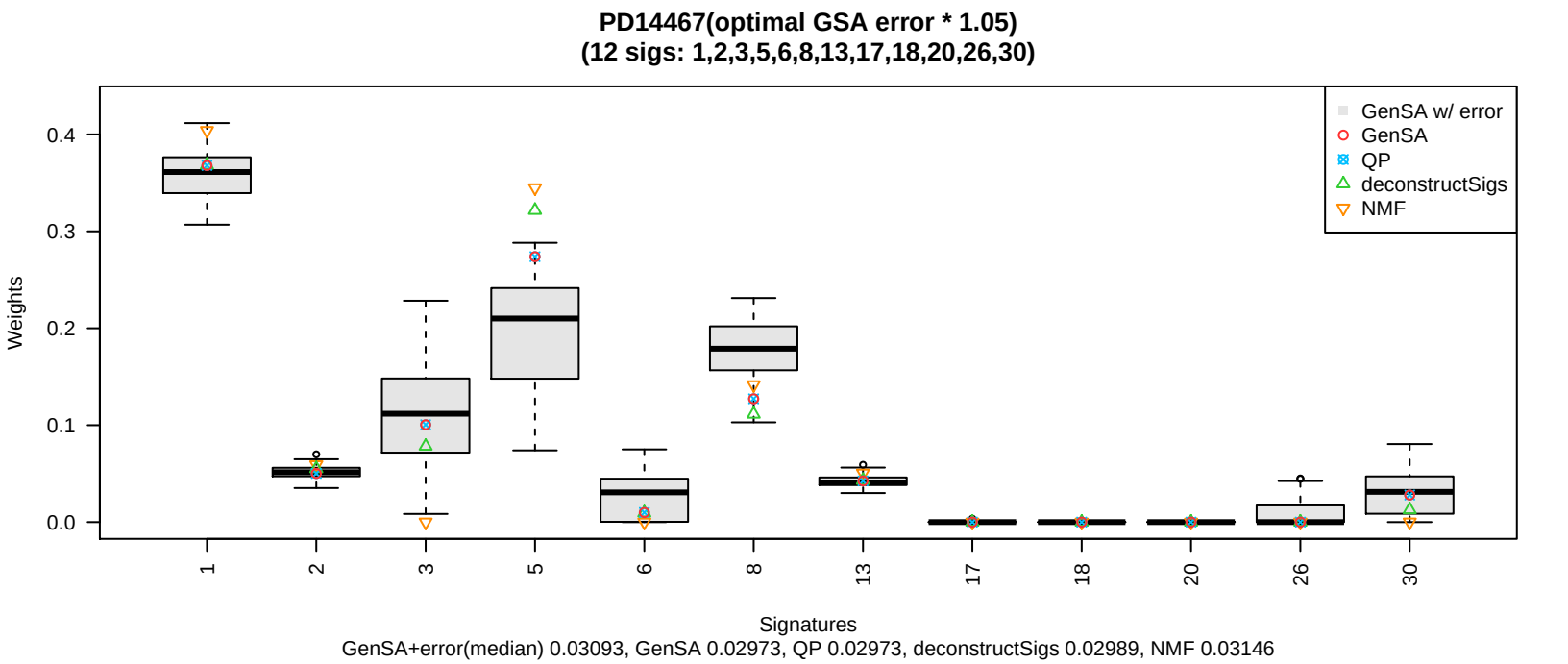
GenSA+error(median) 0.03173, GenSA 0.03044, QP 0.03044, deconstructSigs 0.03048, NMF 0.03088



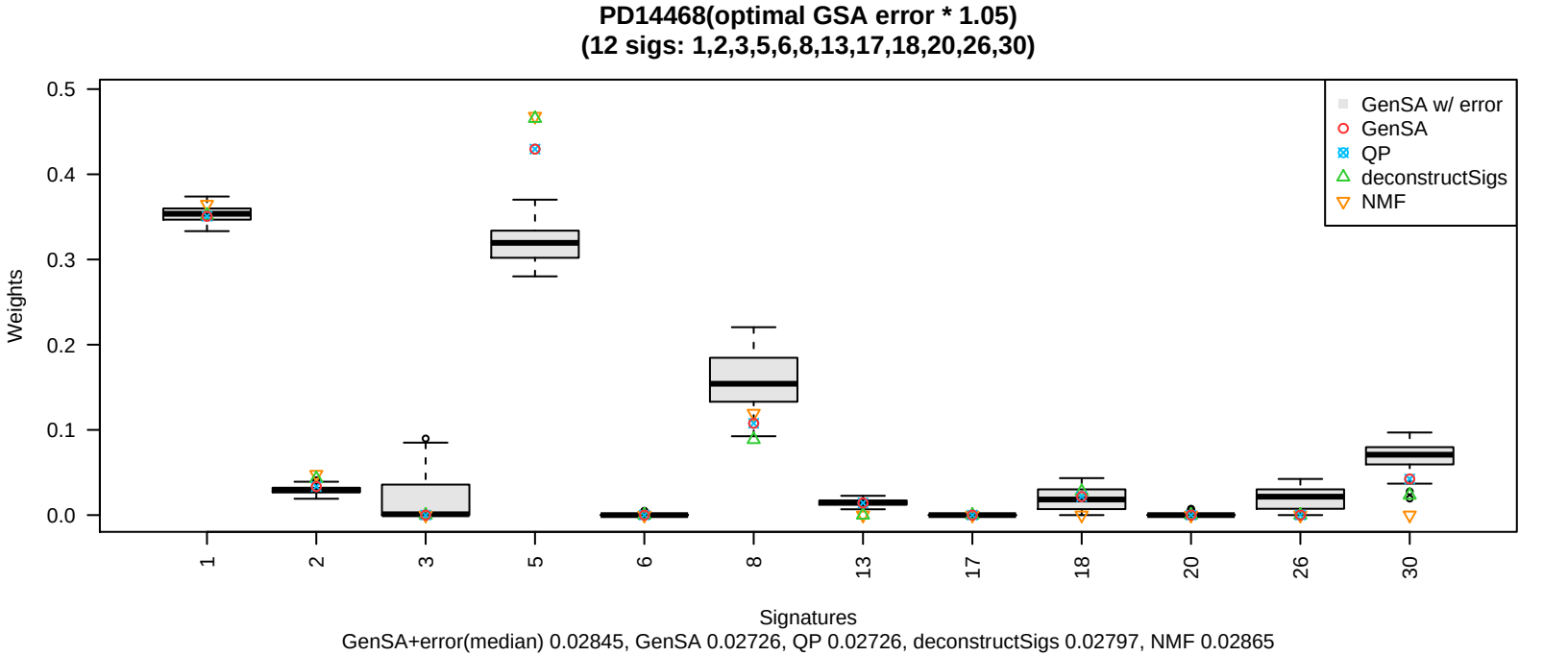
GenSA+error(median) 0.03348, GenSA 0.03200, QP 0.03200, deconstructSigs 0.03207, NMF 0.03424



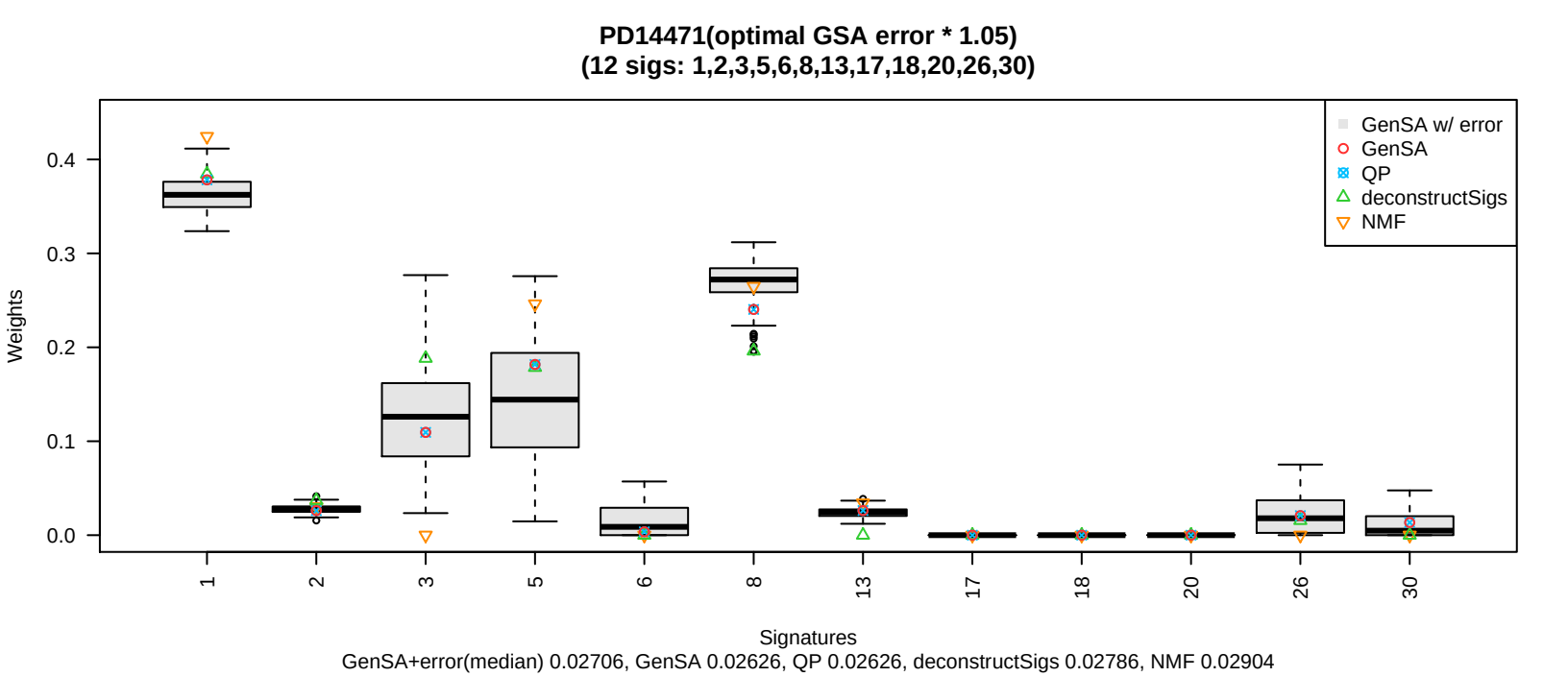
GenSA+error(median) 0.02294, GenSA 0.02206, QP 0.02206, deconstructSigs 0.02524, NMF 0.02415



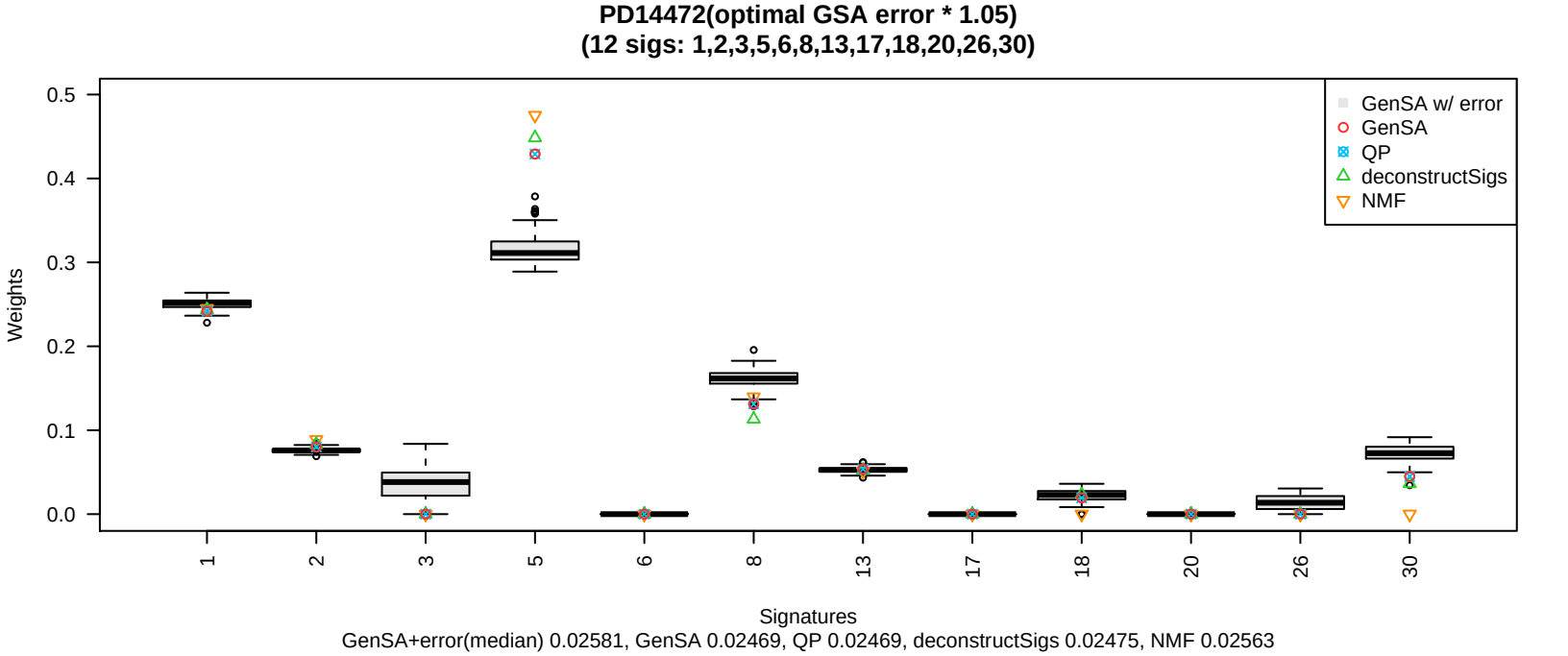
GenSA+error(median) 0.03093, GenSA 0.02973, QP 0.02973, deconstructSigs 0.02989, NMF 0.03146



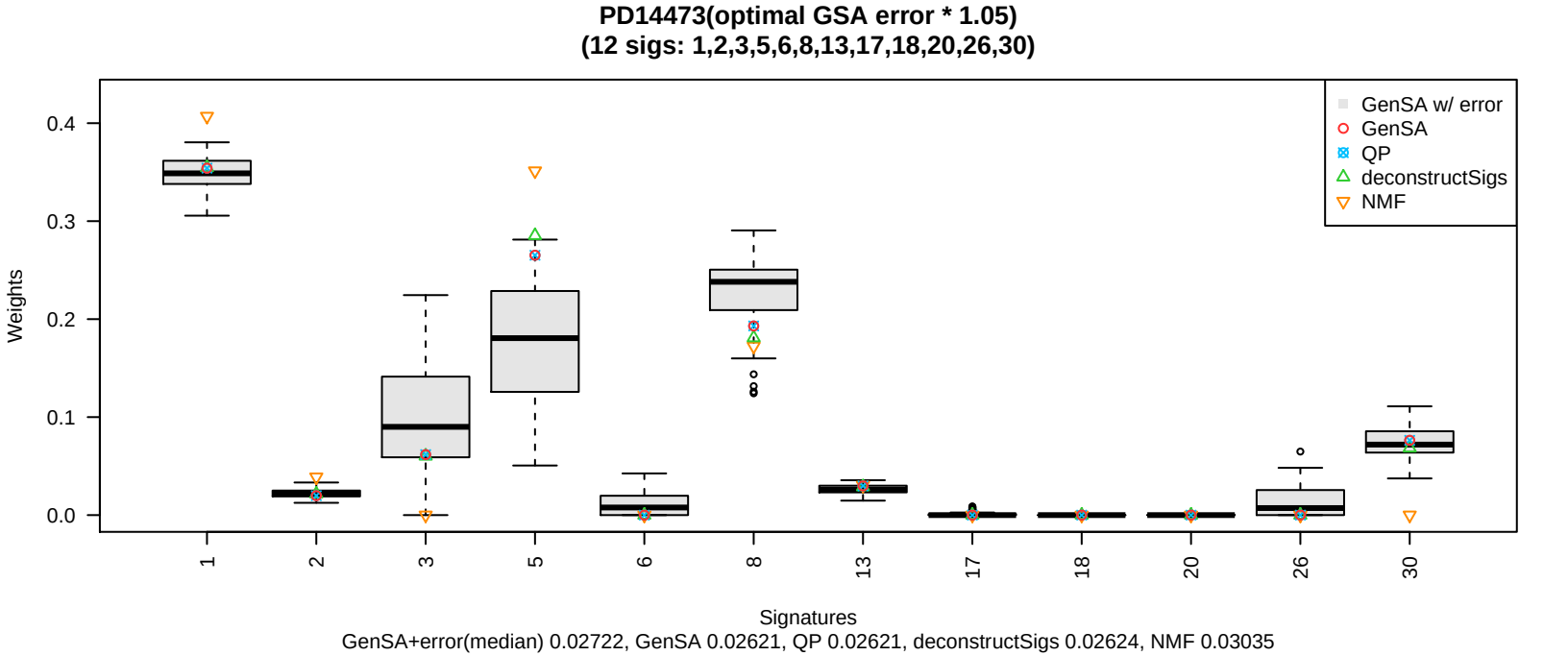
GenSA+error(median) 0.02845, GenSA 0.02726, QP 0.02726, deconstructSigs 0.02797, NMF 0.02865



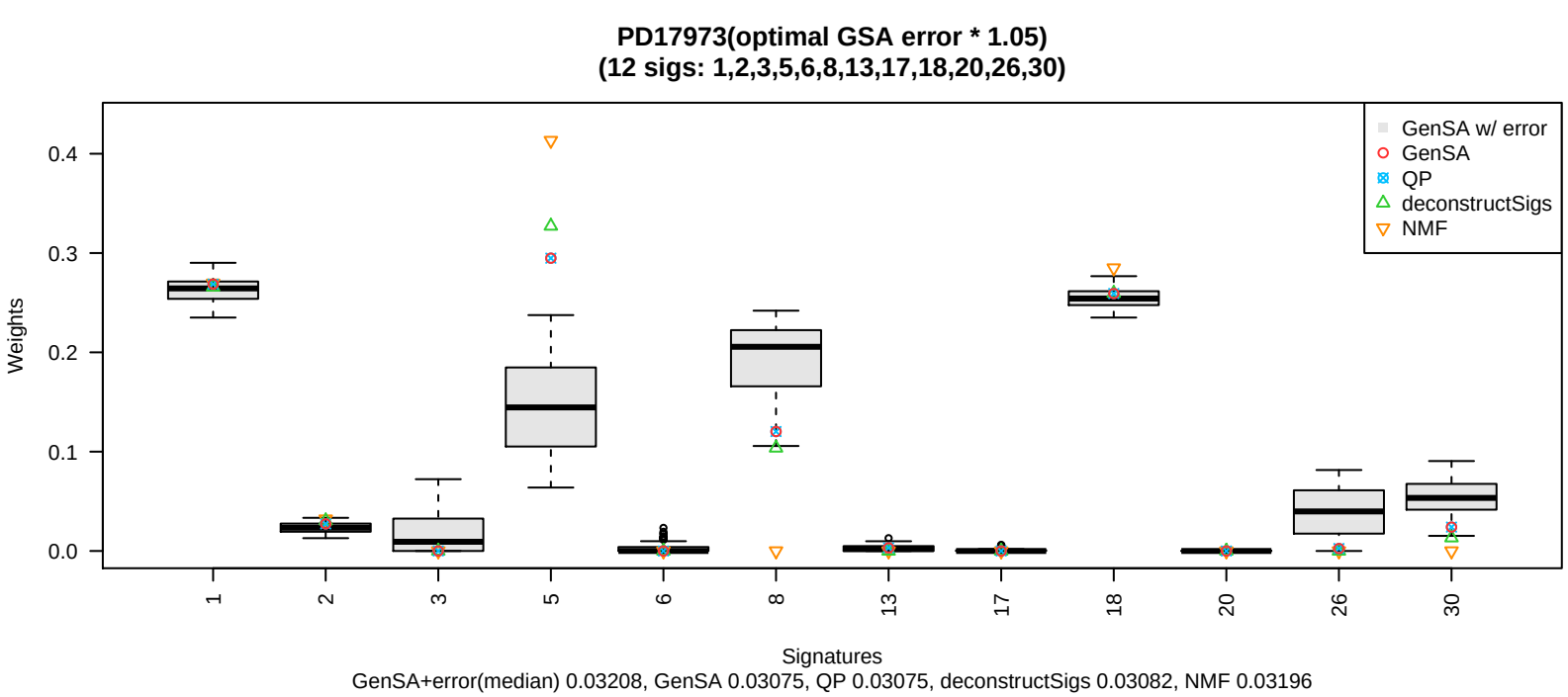
GenSA+error(median) 0.02706, GenSA 0.02626, QP 0.02626, deconstructSigs 0.02786, NMF 0.02904

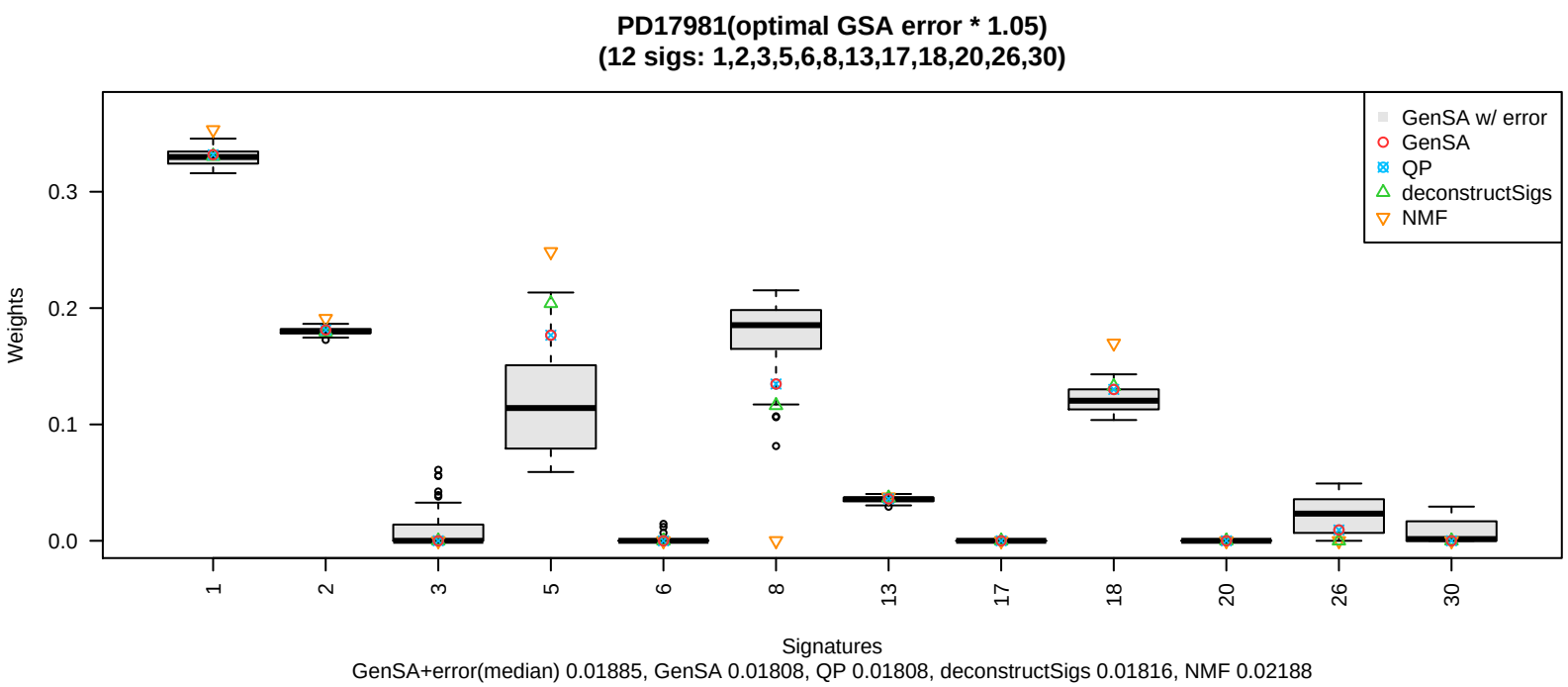


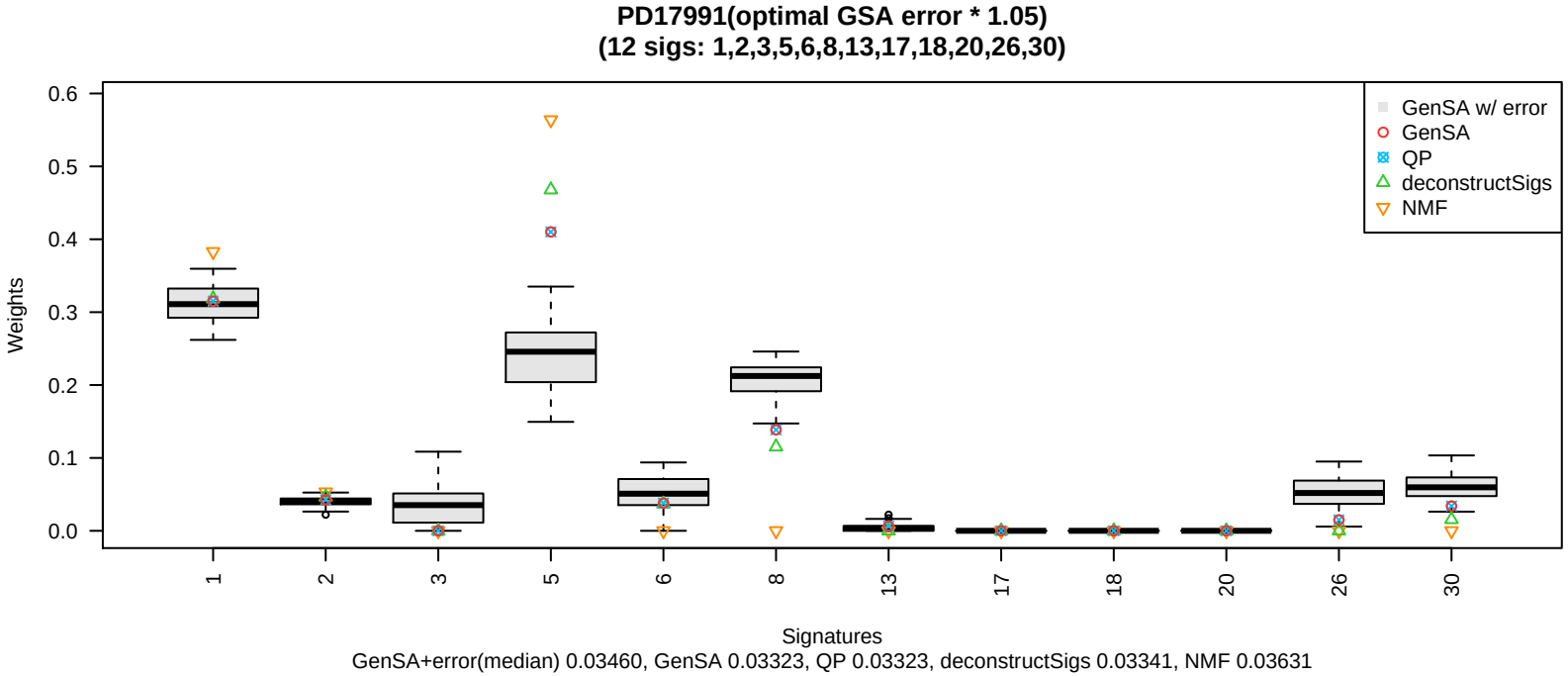
GenSA+error(median) 0.02581, GenSA 0.02469, QP 0.02469, deconstructSigs 0.02475, NMF 0.02563

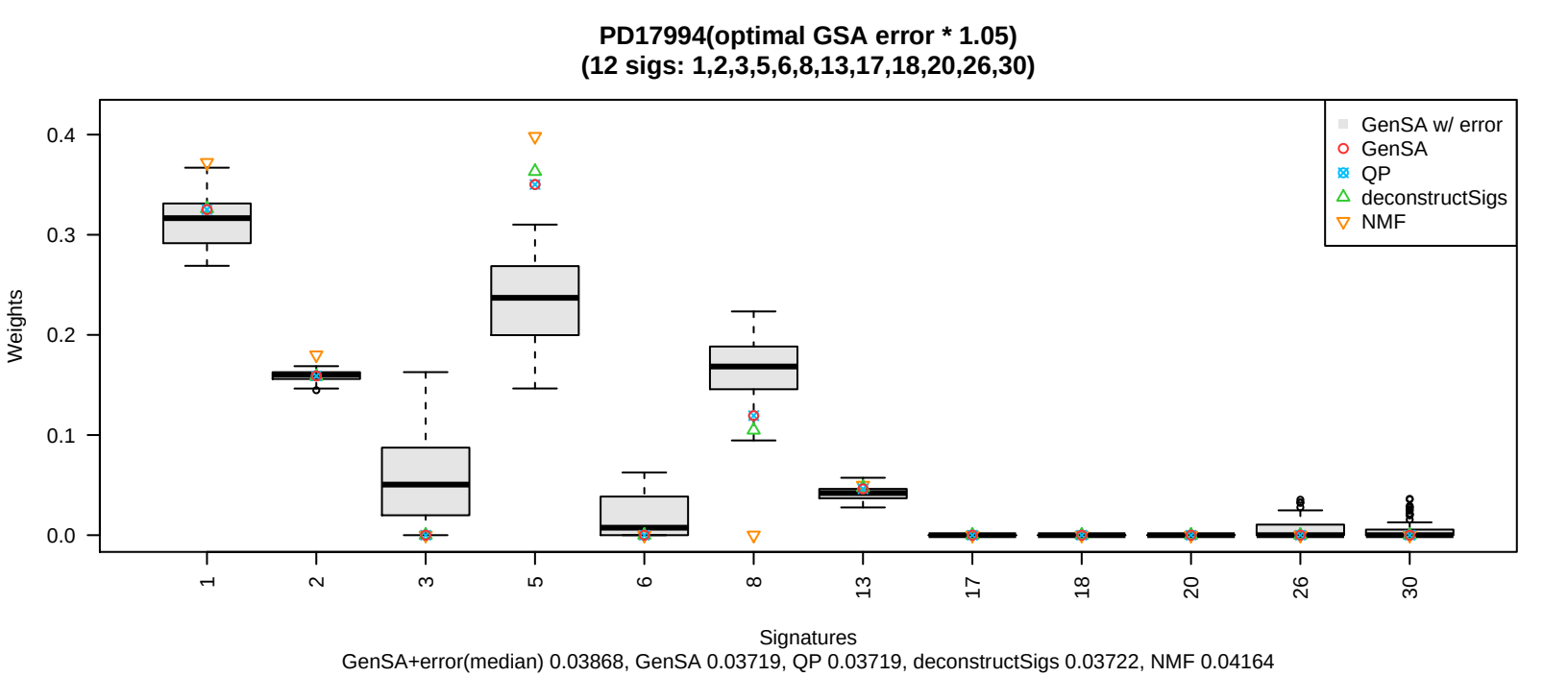


GenSA+error(median) 0.02722, GenSA 0.02621, QP 0.02621, deconstructSigs 0.02624, NMF 0.03035

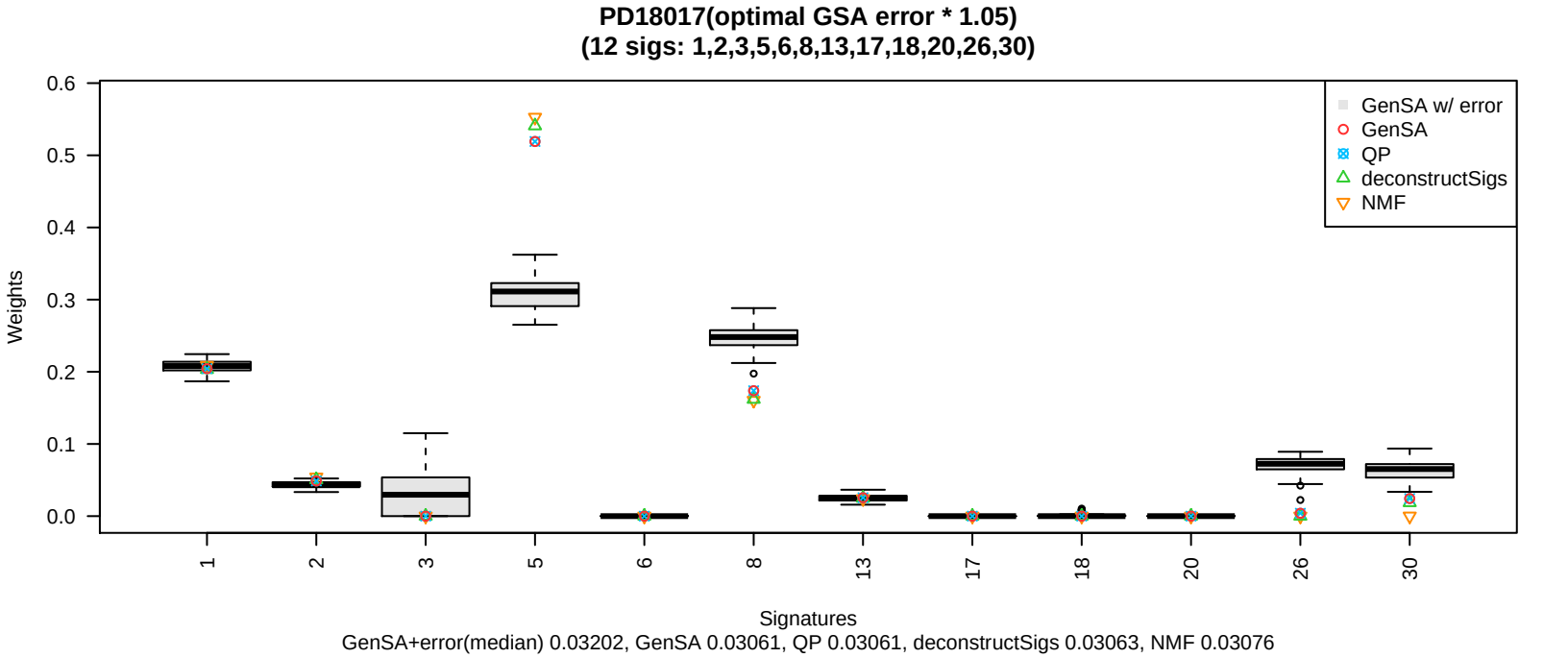

PD17973(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03208, GenSA 0.03075, QP 0.03075, deconstructSigs 0.03082, NMF 0.03196


PD17981(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01885, GenSA 0.01808, QP 0.01808, deconstructSigs 0.01816, NMF 0.02188

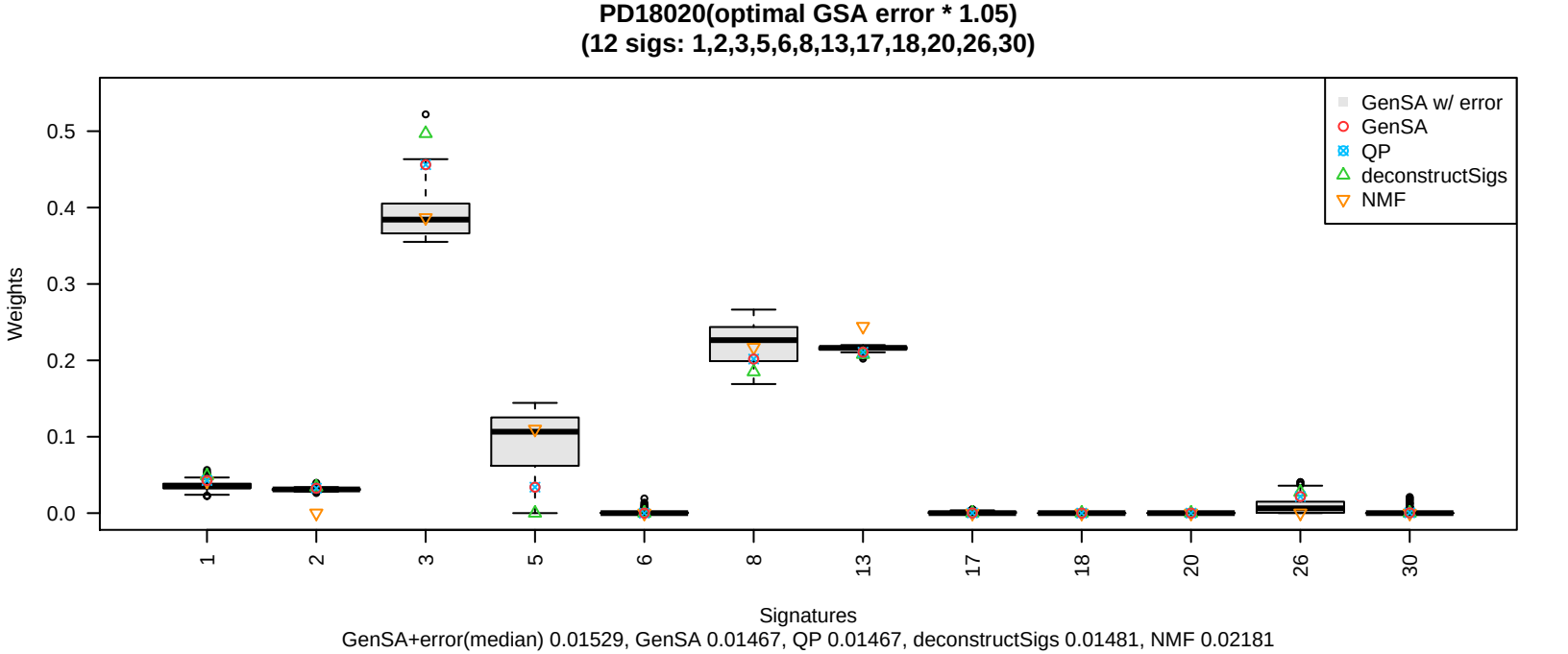

PD17991(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03460, GenSA 0.03323, QP 0.03323, deconstructSigs 0.03341, NMF 0.03631



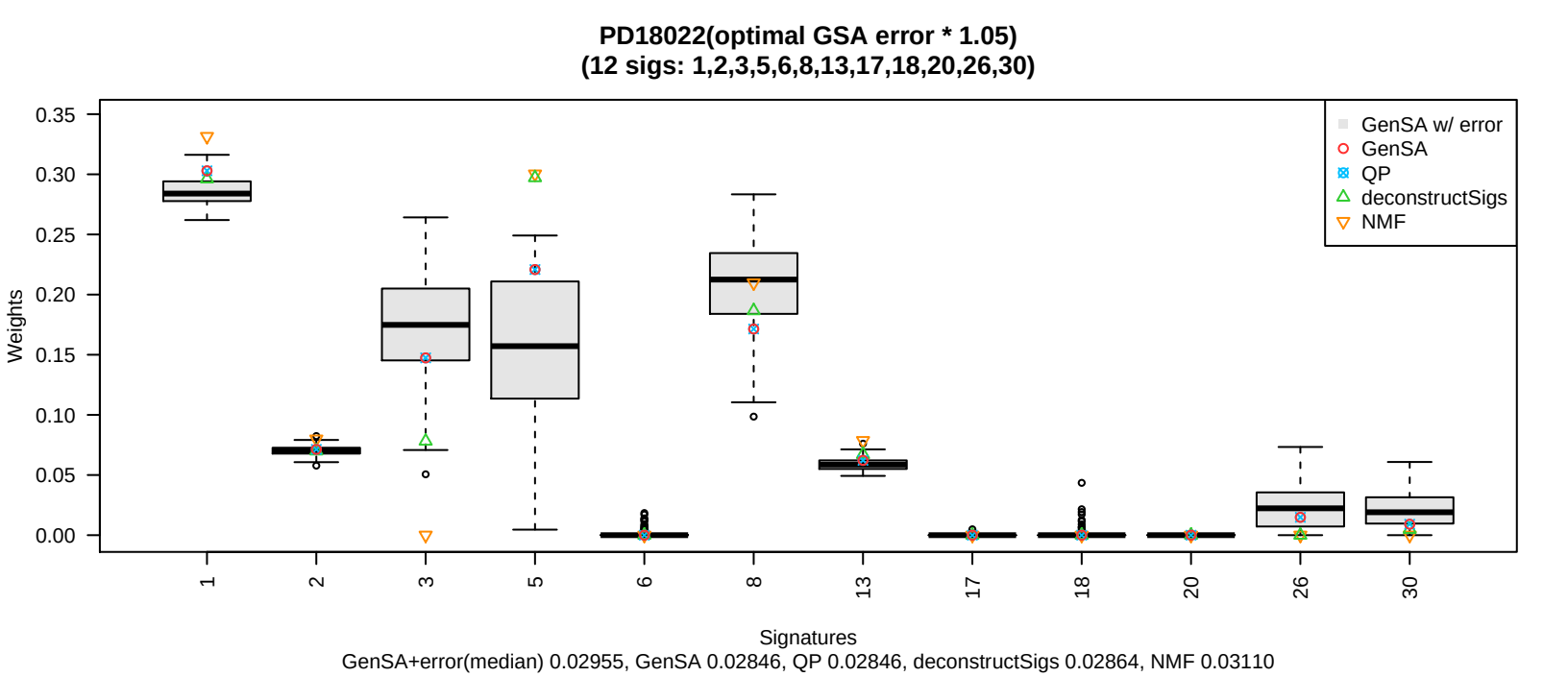
GenSA+error(median) 0.03868, GenSA 0.03719, QP 0.03719, deconstructSigs 0.03722, NMF 0.04164



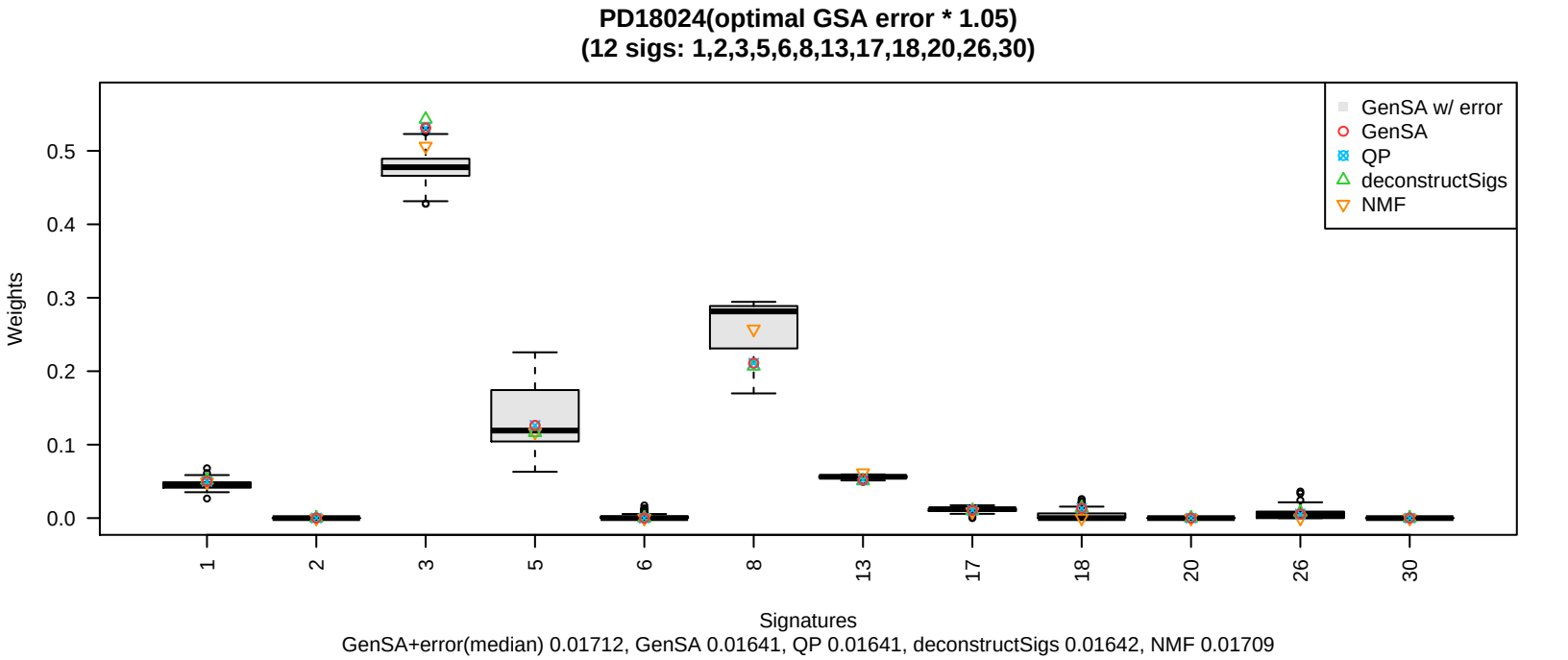
GenSA+error(median) 0.03202, GenSA 0.03061, QP 0.03061, deconstructSigs 0.03063, NMF 0.03076



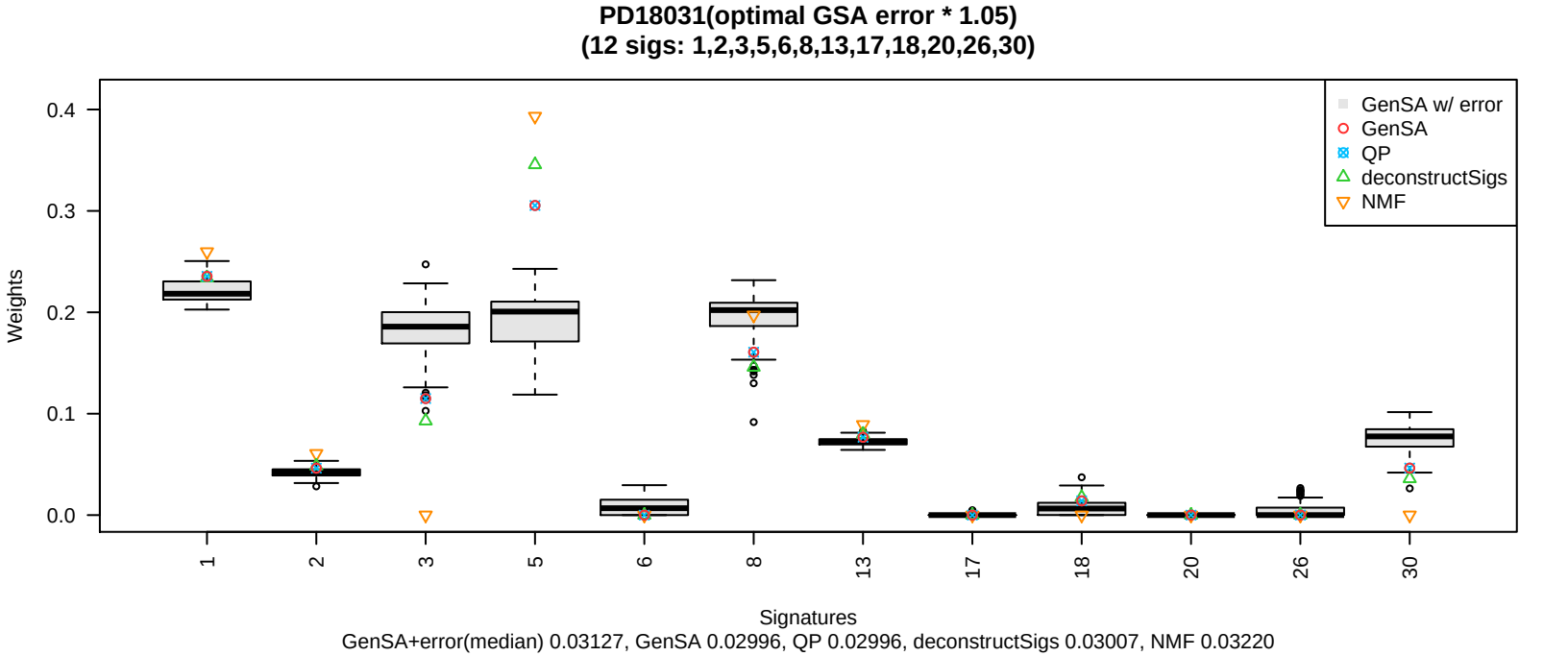
GenSA+error(median) 0.01529, GenSA 0.01467, QP 0.01467, deconstructSigs 0.01481, NMF 0.02181



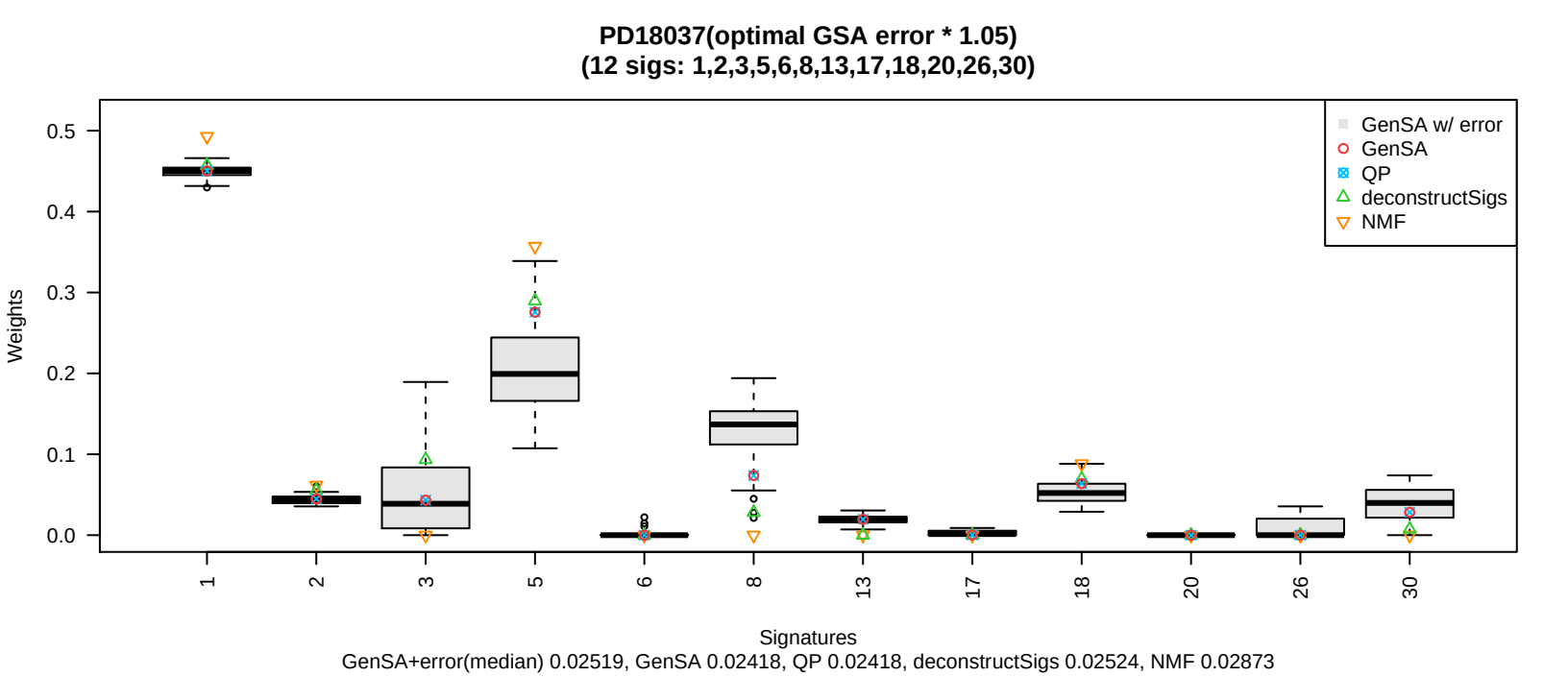
GenSA+error(median) 0.02955, GenSA 0.02846, QP 0.02846, deconstructSigs 0.02864, NMF 0.03110



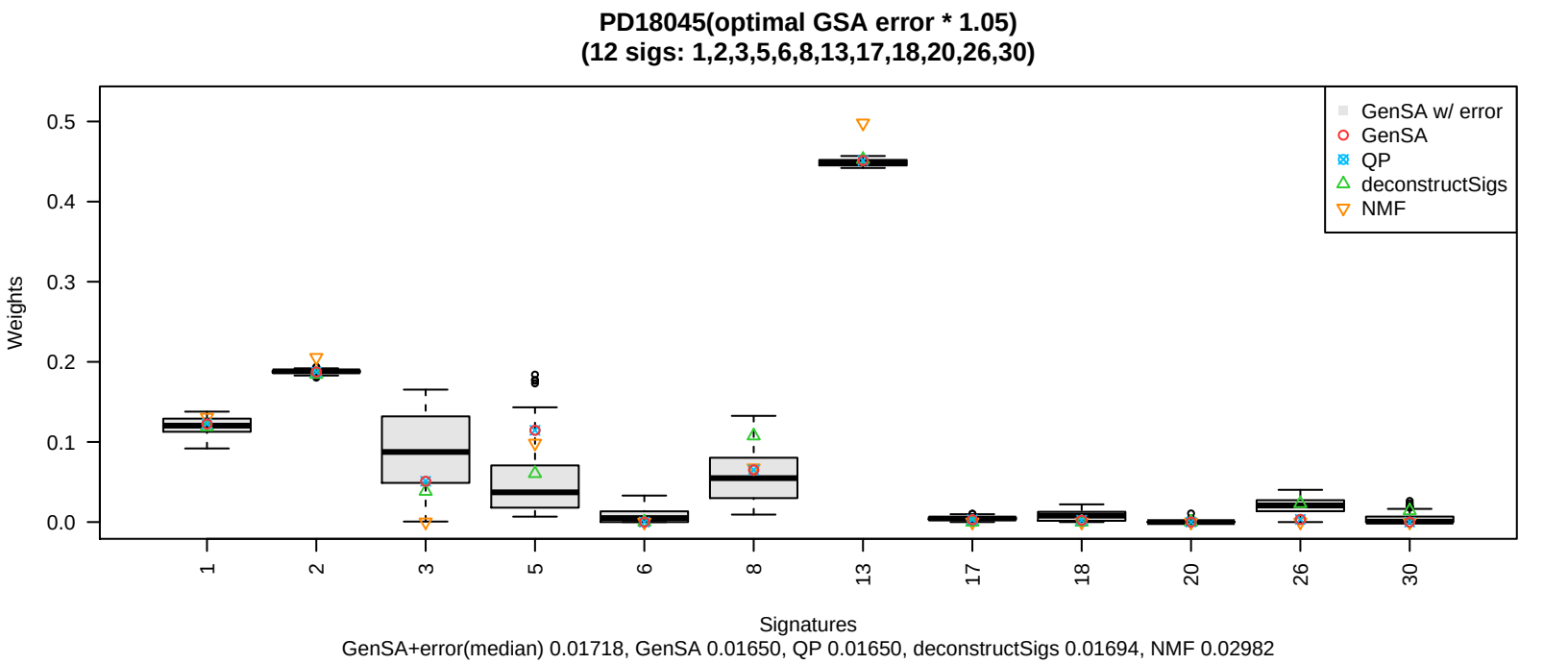
GenSA+error(median) 0.01712, GenSA 0.01641, QP 0.01641, deconstructSigs 0.01642, NMF 0.01709



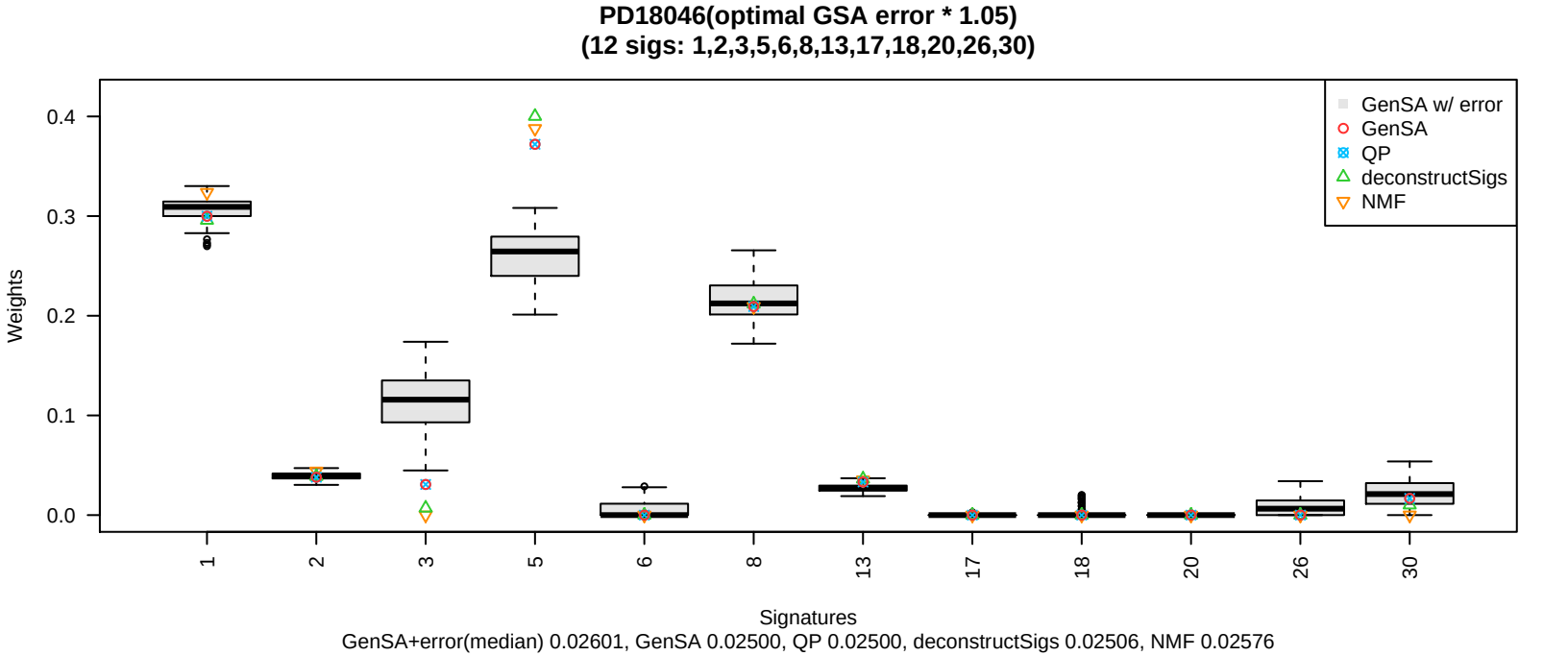
GenSA+error(median) 0.03127, GenSA 0.02996, QP 0.02996, deconstructSigs 0.03007, NMF 0.03220



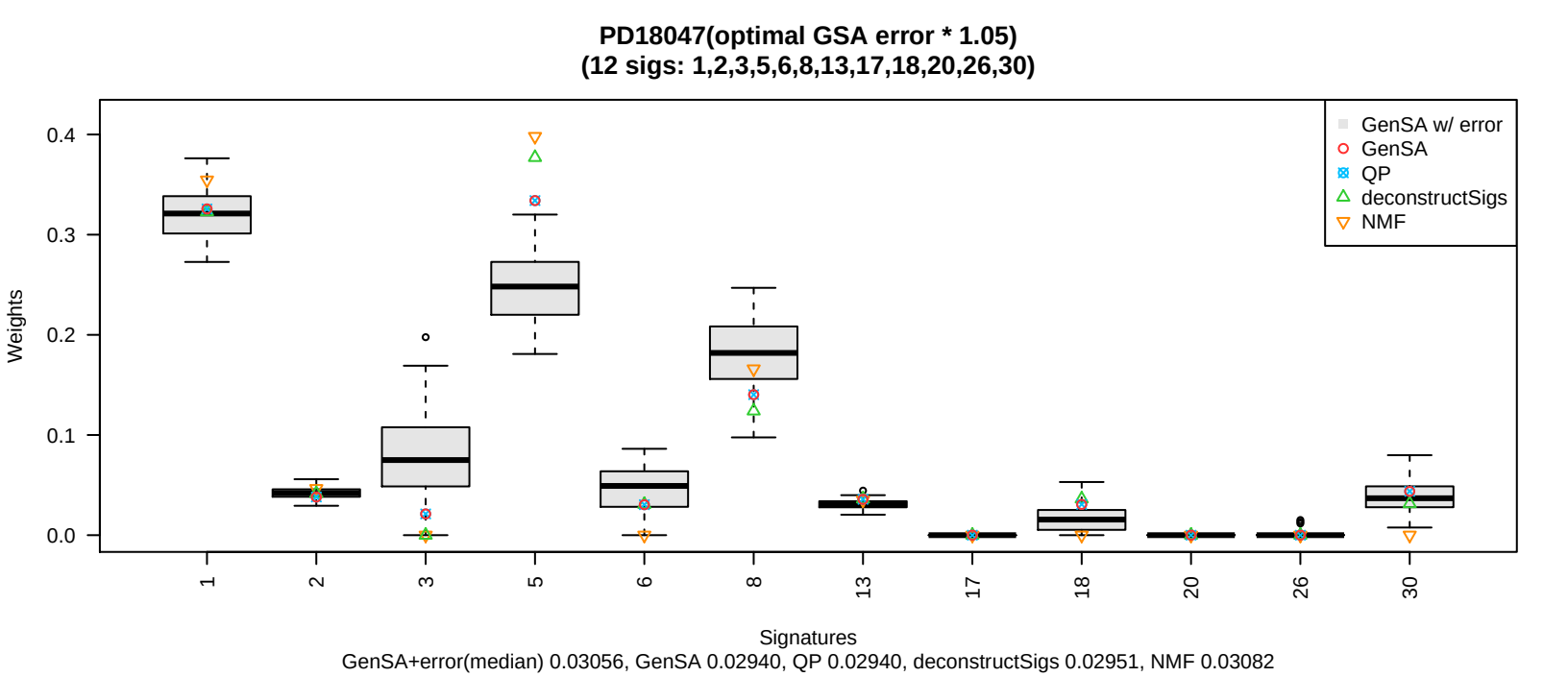
GenSA+error(median) 0.02519, GenSA 0.02418, QP 0.02418, deconstructSigs 0.02524, NMF 0.02873

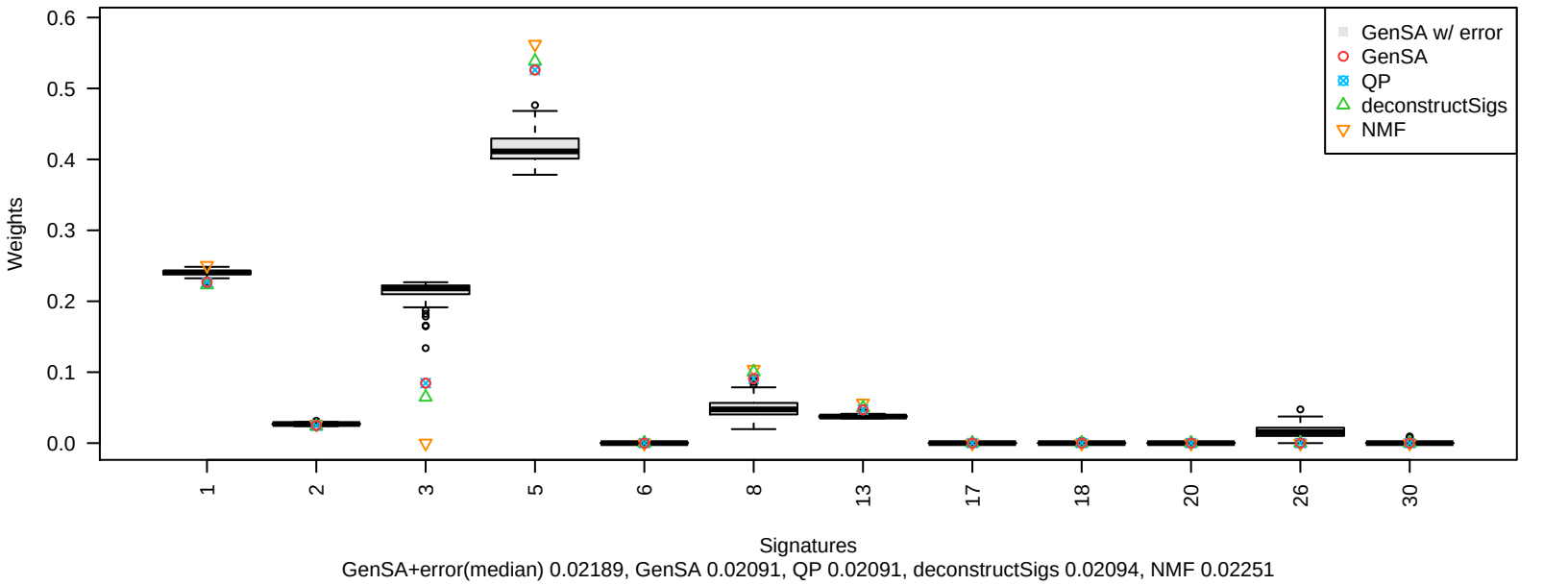


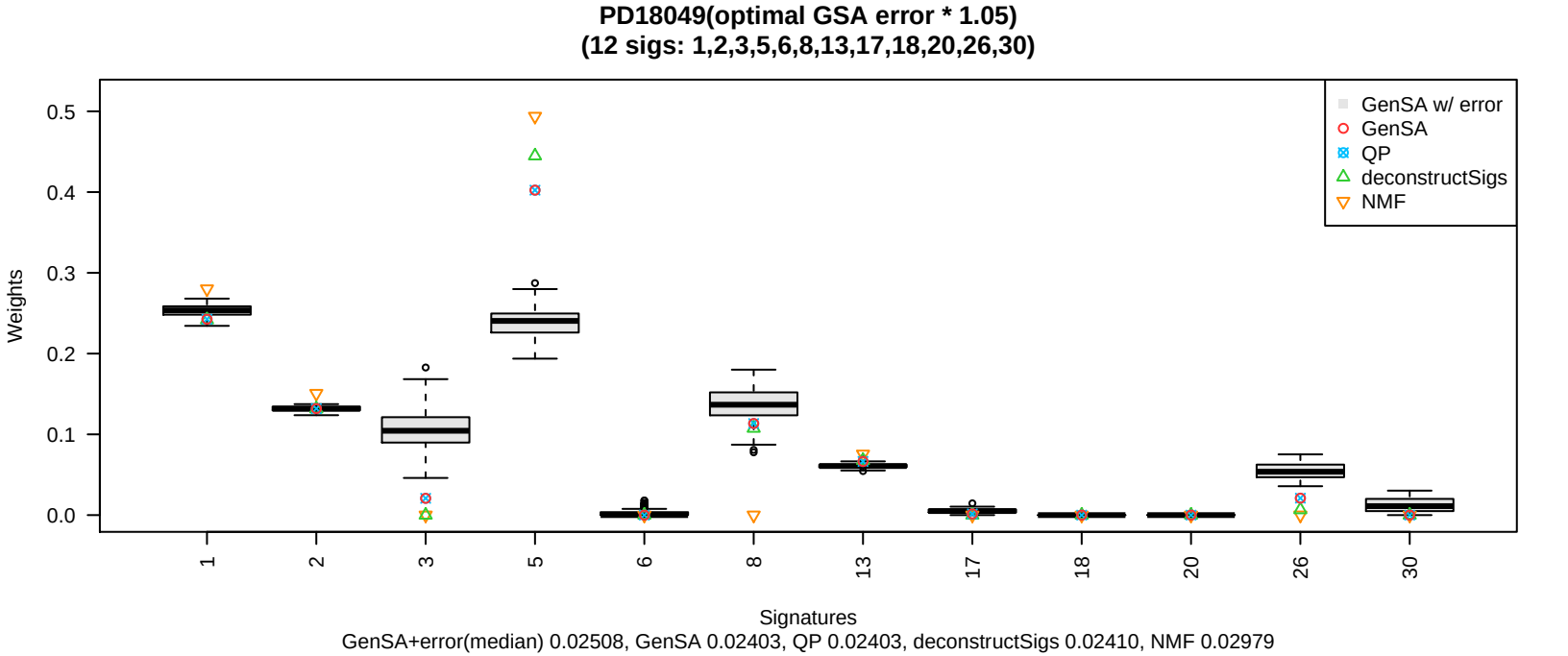
GenSA+error(median) 0.01718, GenSA 0.01650, QP 0.01650, deconstructSigs 0.01694, NMF 0.02982

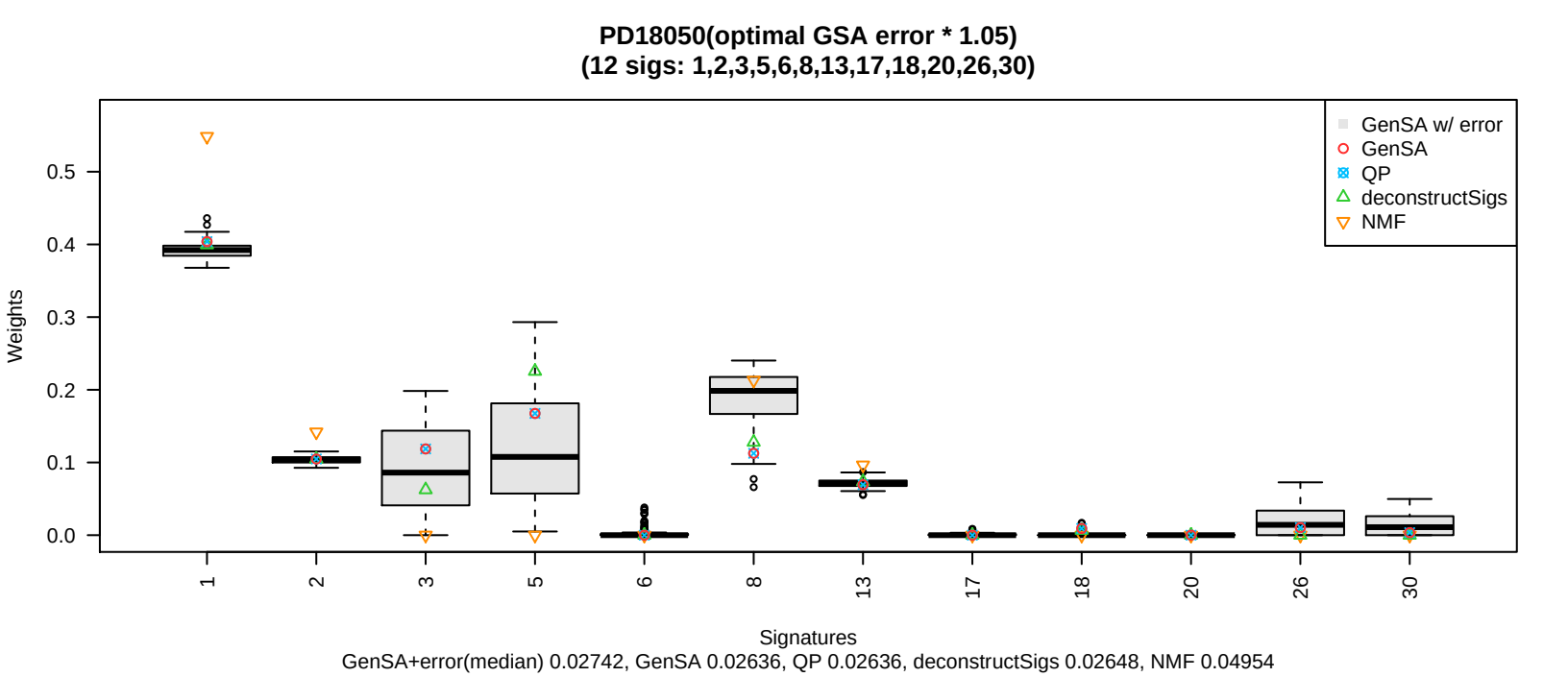


GenSA+error(median) 0.02601, GenSA 0.02500, QP 0.02500, deconstructSigs 0.02506, NMF 0.02576

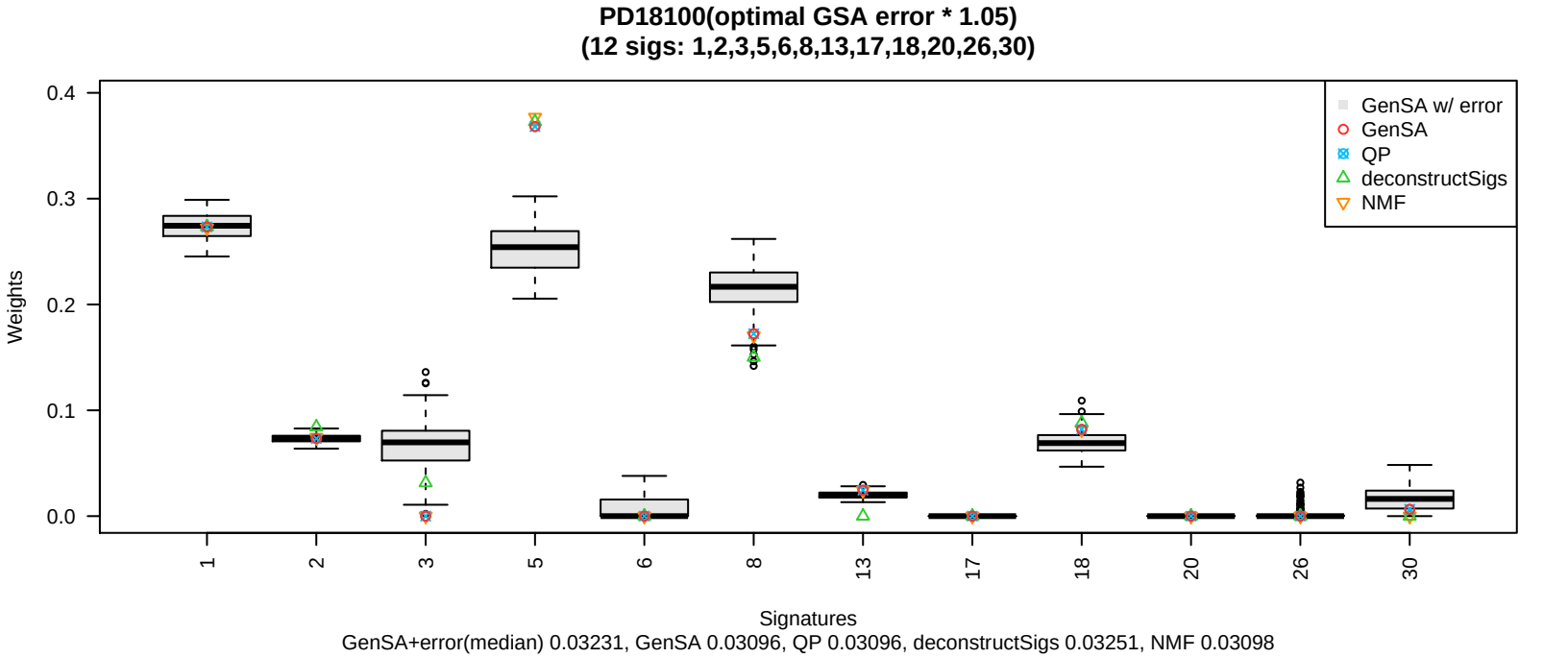

PD18047(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03056, GenSA 0.02940, QP 0.02940, deconstructSigs 0.02951, NMF 0.03082


PD18048(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02189, GenSA 0.02091, QP 0.02091, deconstructSigs 0.02094, NMF 0.02251

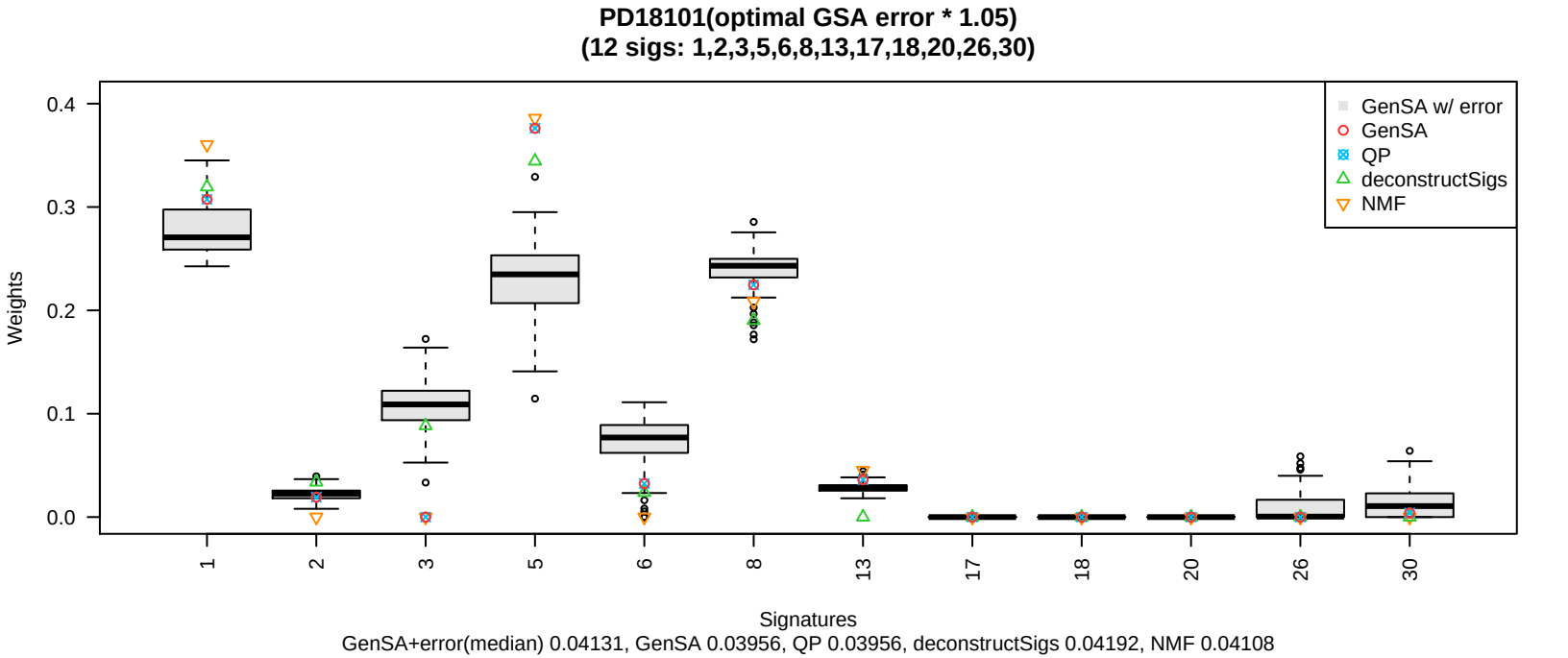

PD18049(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02508, GenSA 0.02403, QP 0.02403, deconstructSigs 0.02410, NMF 0.02979



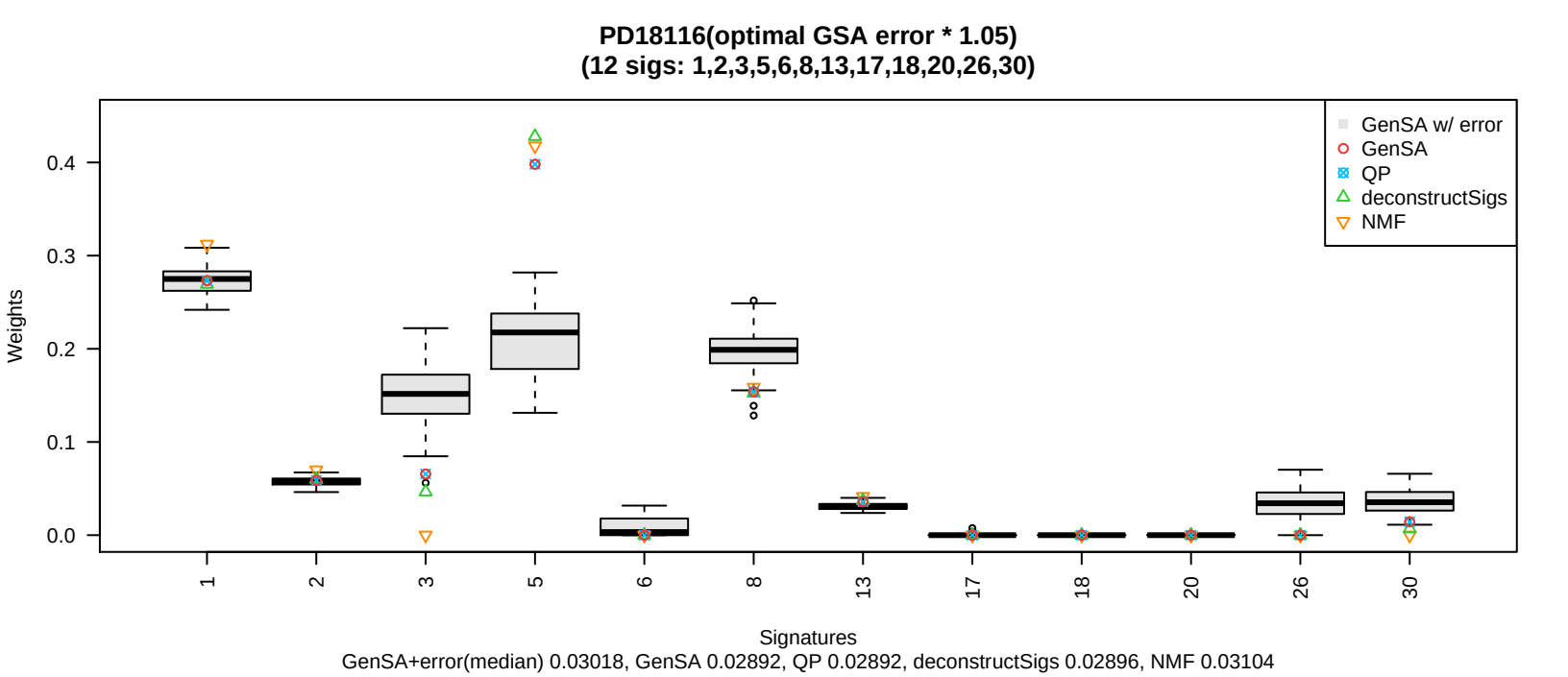
GenSA+error(median) 0.02742, GenSA 0.02636, QP 0.02636, deconstructSigs 0.02648, NMF 0.04954



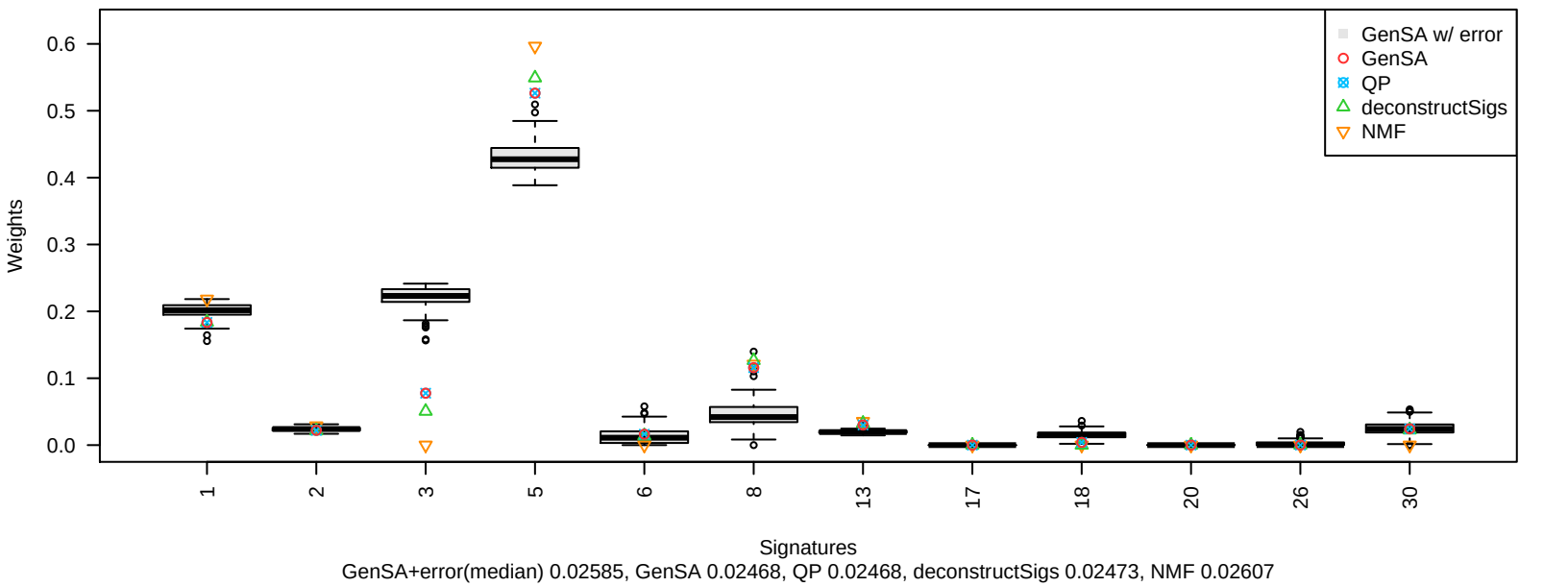
GenSA+error(median) 0.03231, GenSA 0.03096, QP 0.03096, deconstructSigs 0.03251, NMF 0.03098



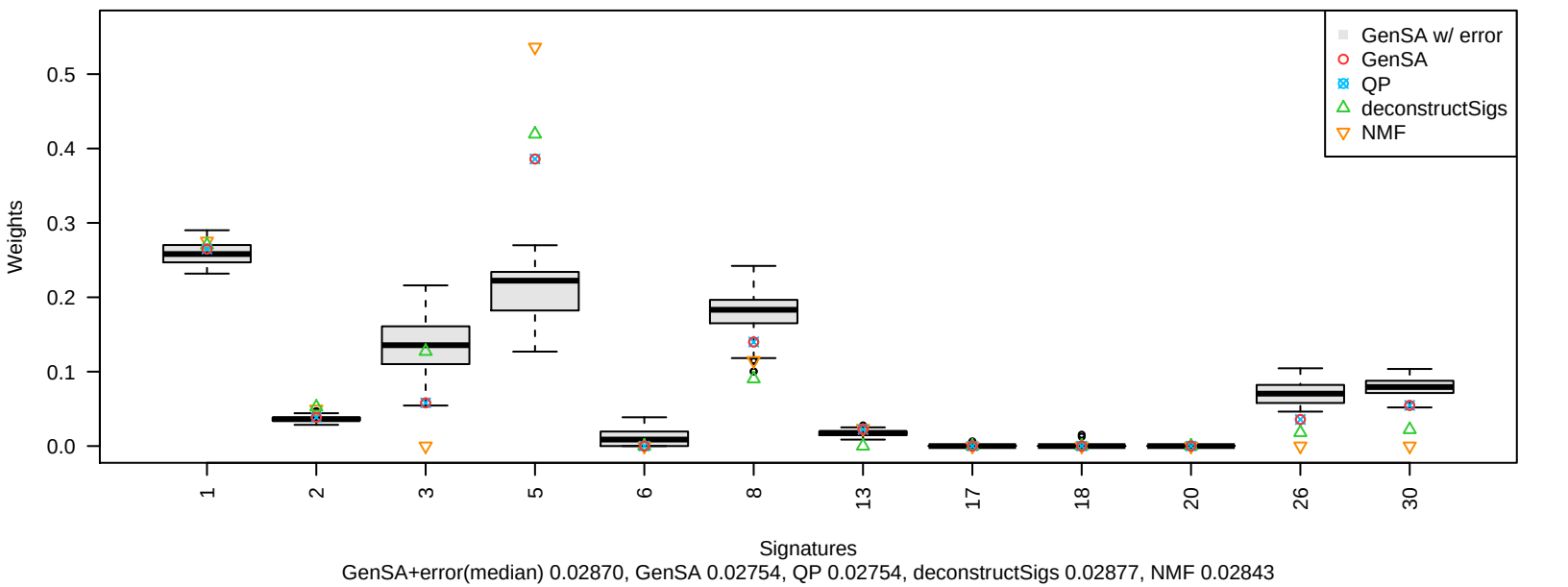
GenSA+error(median) 0.04131, GenSA 0.03956, QP 0.03956, deconstructSigs 0.04192, NMF 0.04108



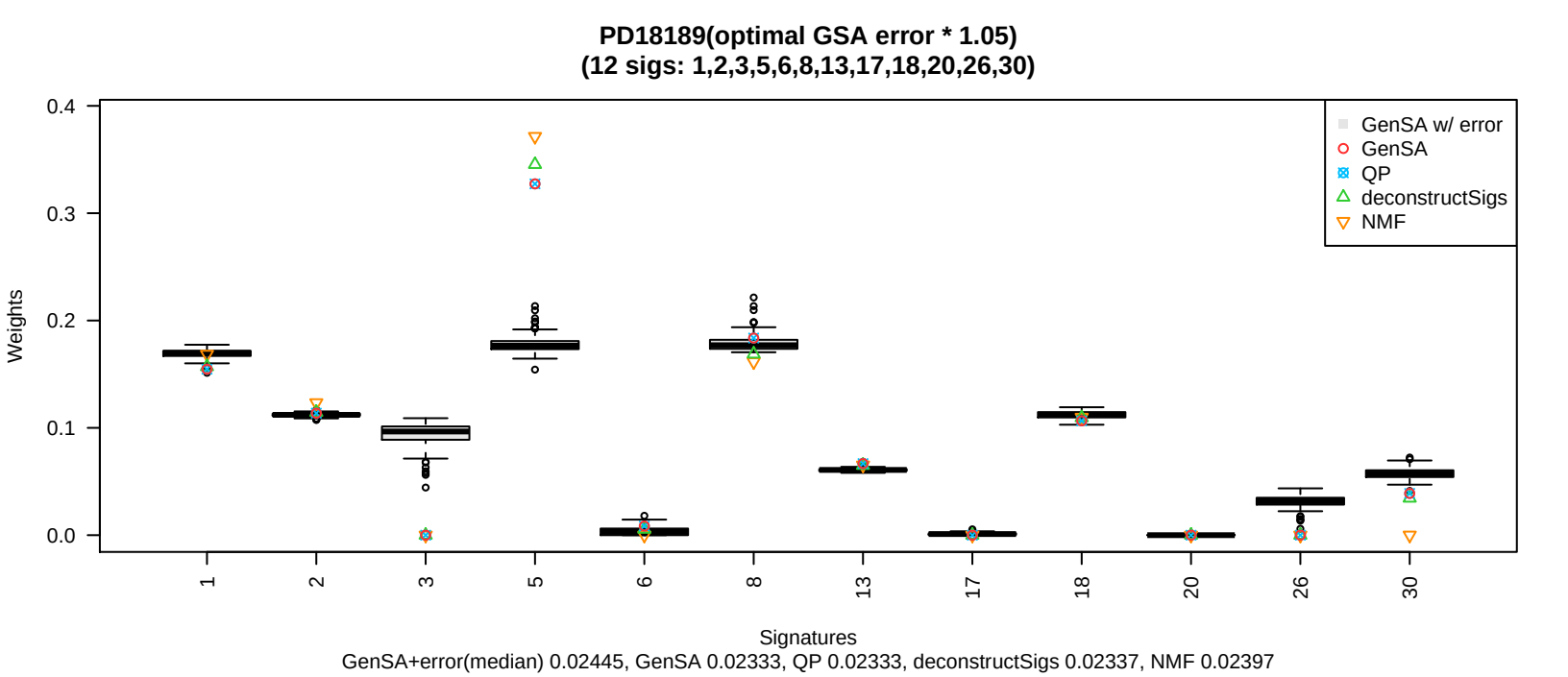
GenSA+error(median) 0.03018, GenSA 0.02892, QP 0.02892, deconstructSigs 0.02896, NMF 0.03104

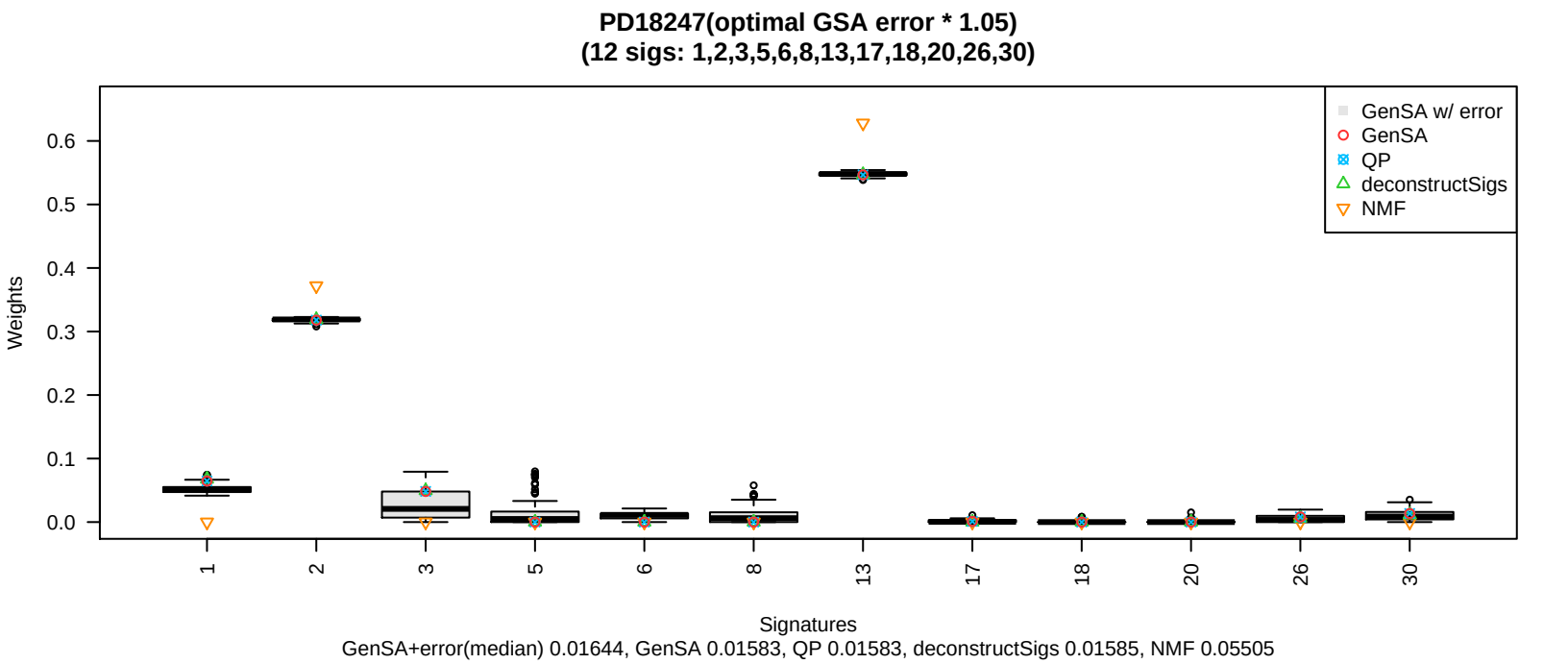


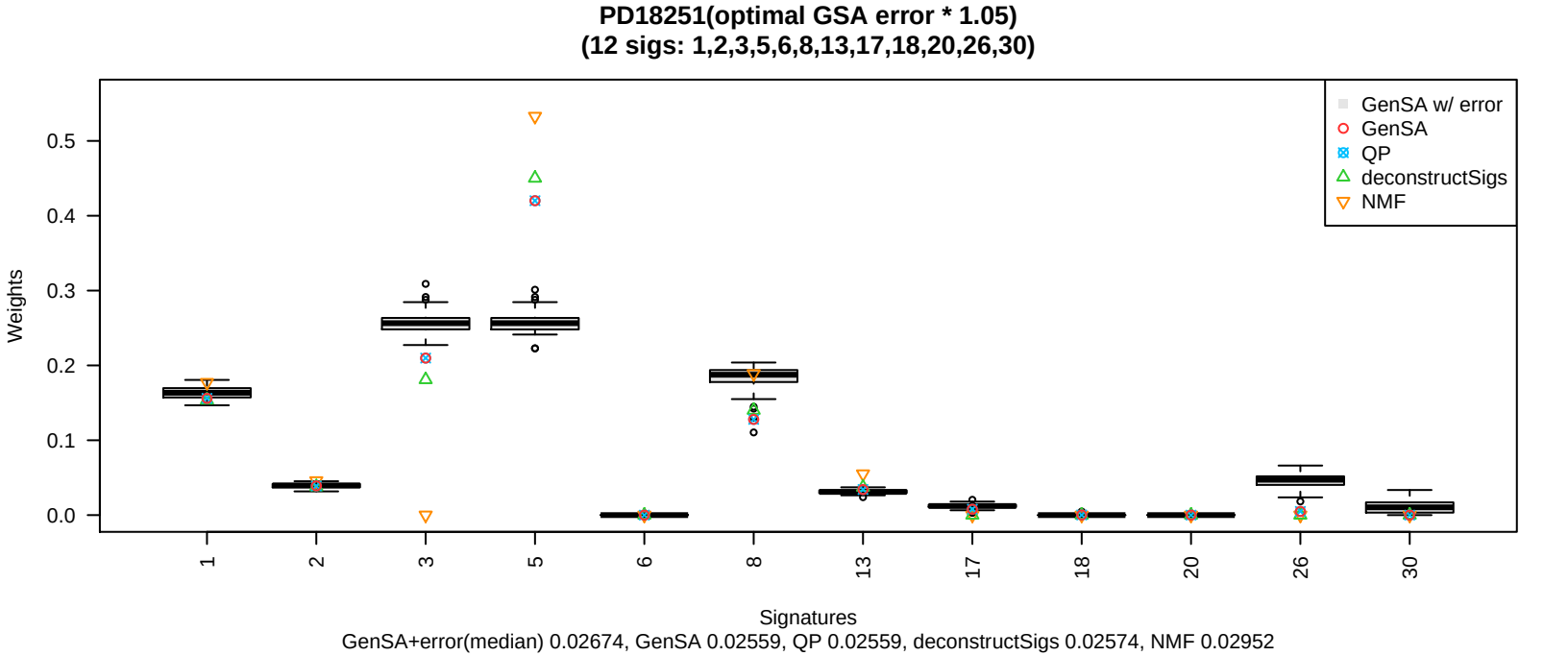
GenSA+error(median) 0.02585, GenSA 0.02468, QP 0.02468, deconstructSigs 0.02473, NMF 0.02607

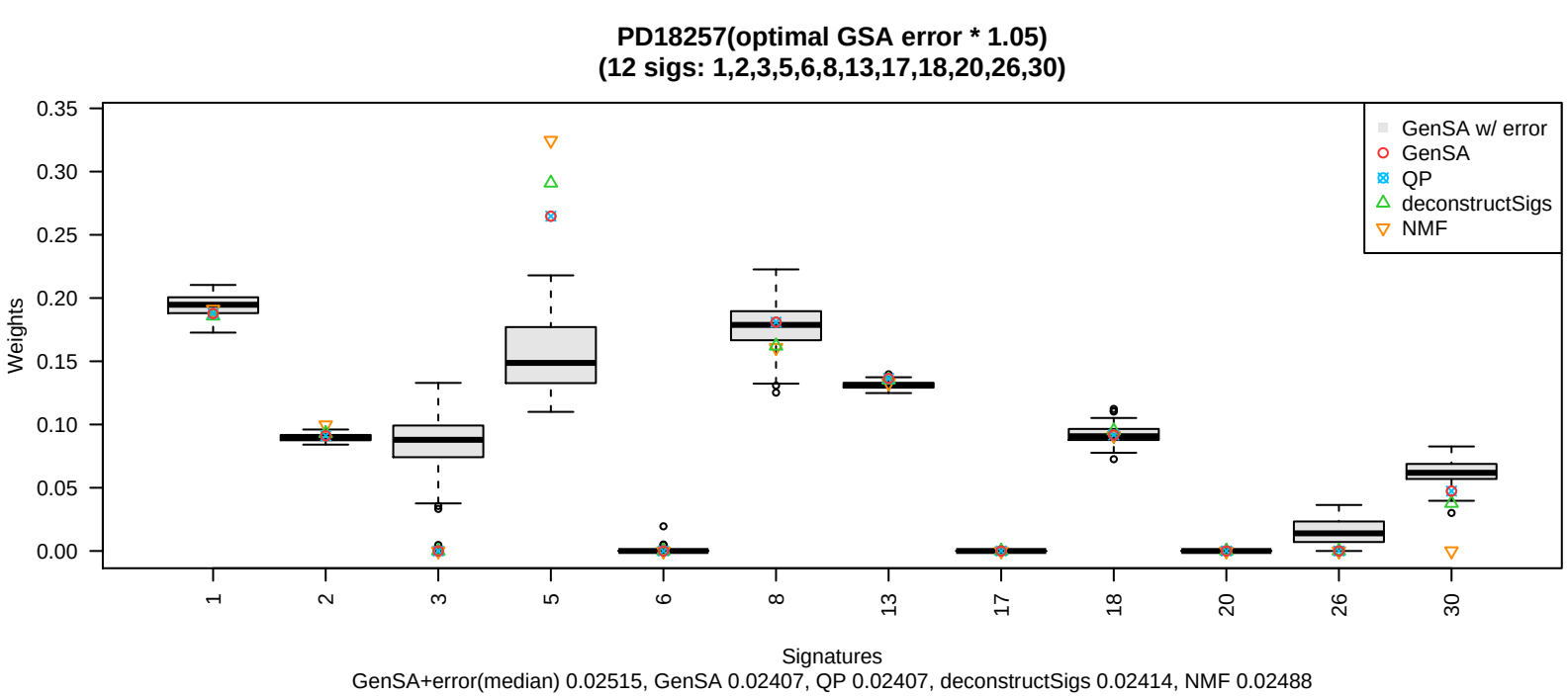


GenSA+error(median) 0.02870, GenSA 0.02754, QP 0.02754, deconstructSigs 0.02877, NMF 0.02843

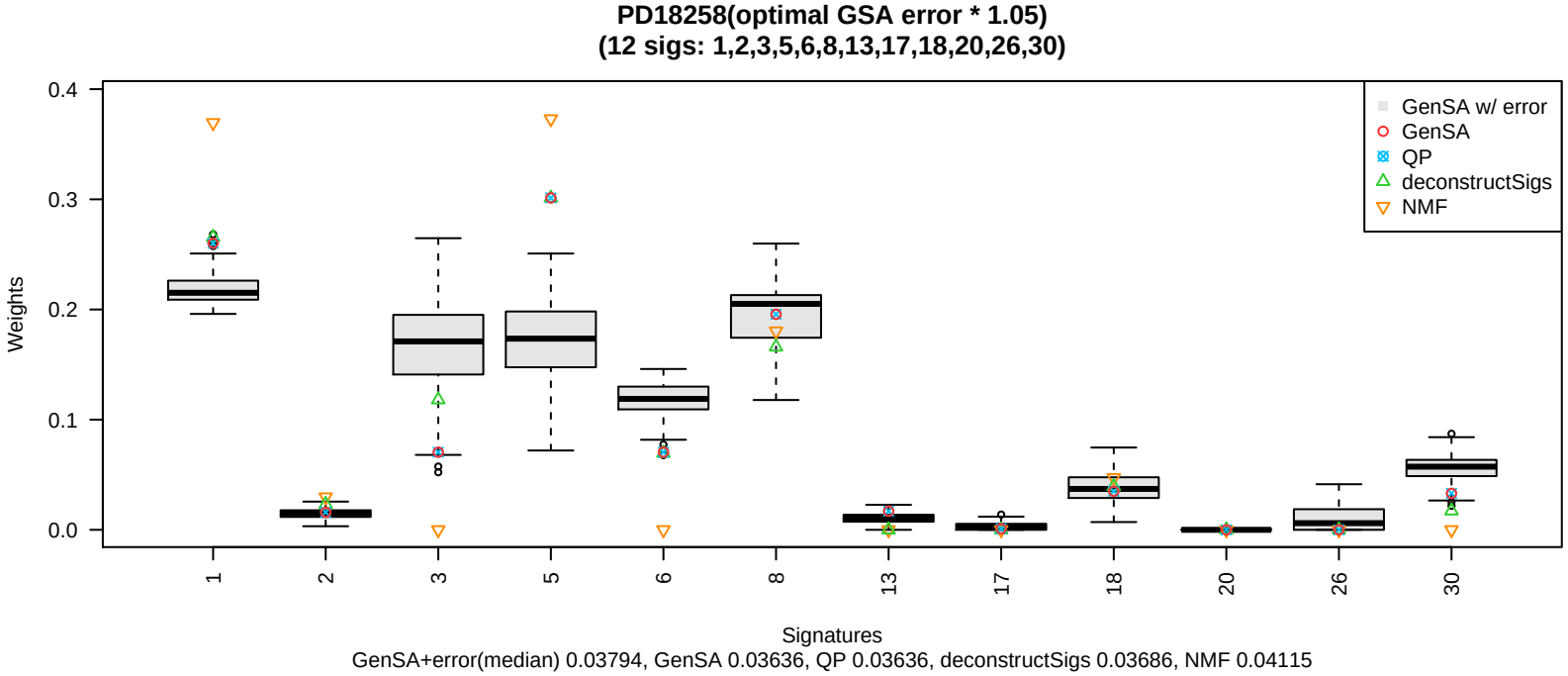

PD18189(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02445, GenSA 0.02333, QP 0.02333, deconstructSigs 0.02337, NMF 0.02397


PD18247(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01644, GenSA 0.01583, QP 0.01583, deconstructSigs 0.01585, NMF 0.05505

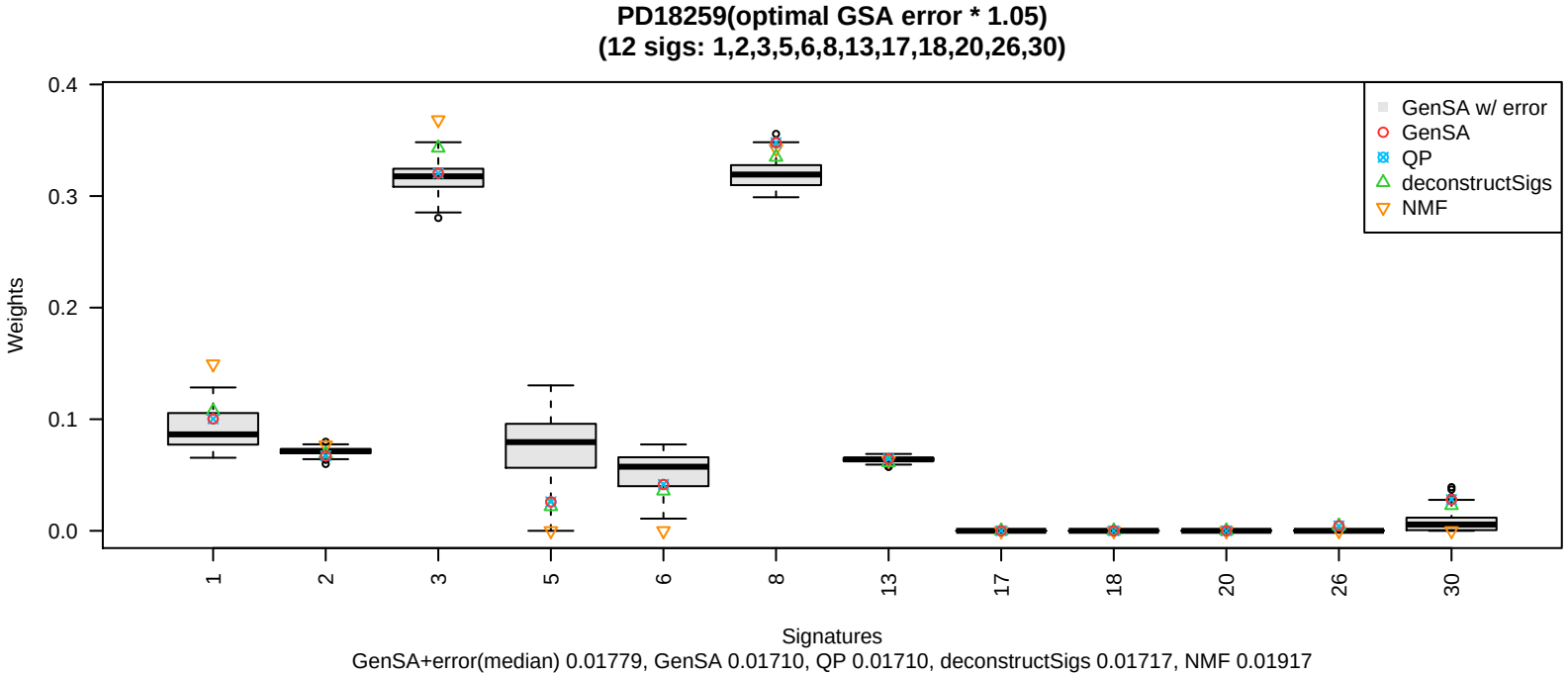

PD18251(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02674, GenSA 0.02559, QP 0.02559, deconstructSigs 0.02574, NMF 0.02952



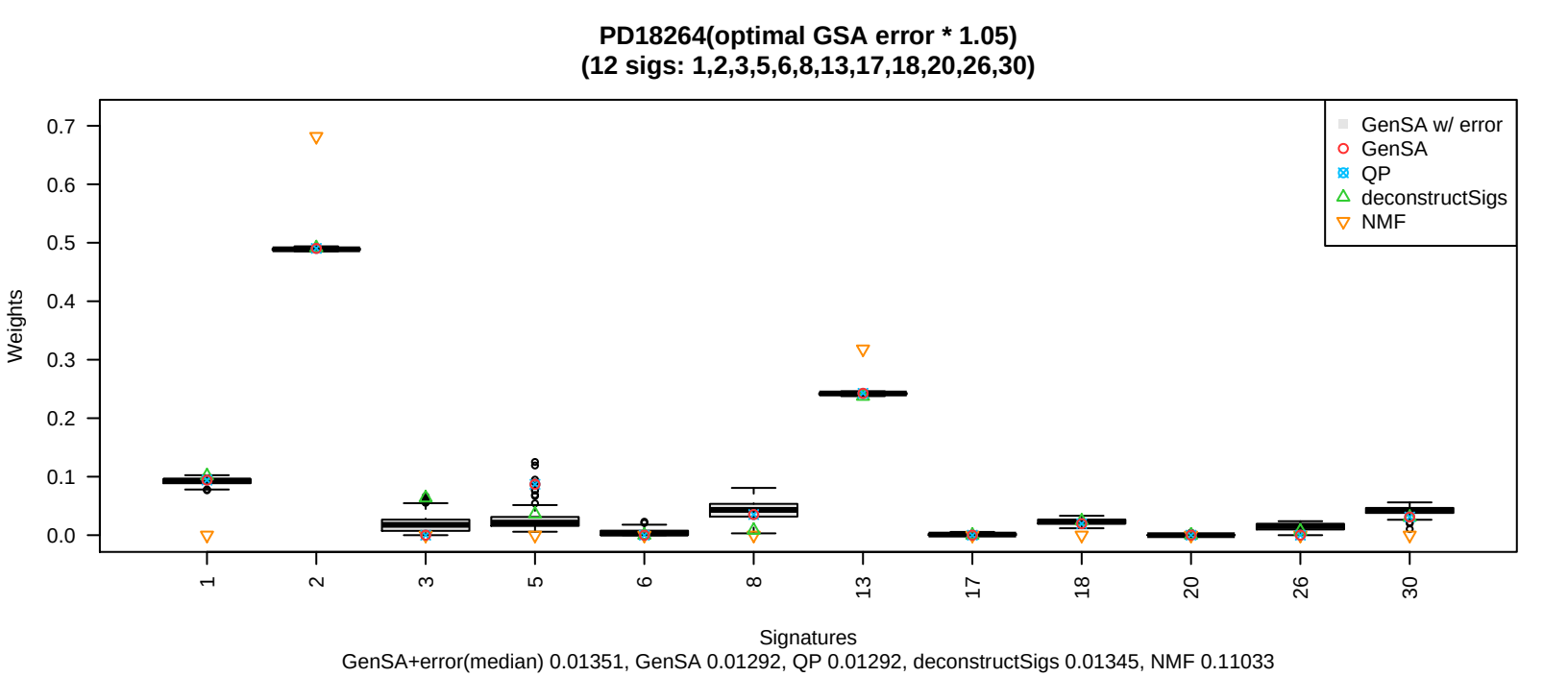
GenSA+error(median) 0.02515, GenSA 0.02407, QP 0.02407, deconstructSigs 0.02414, NMF 0.02488



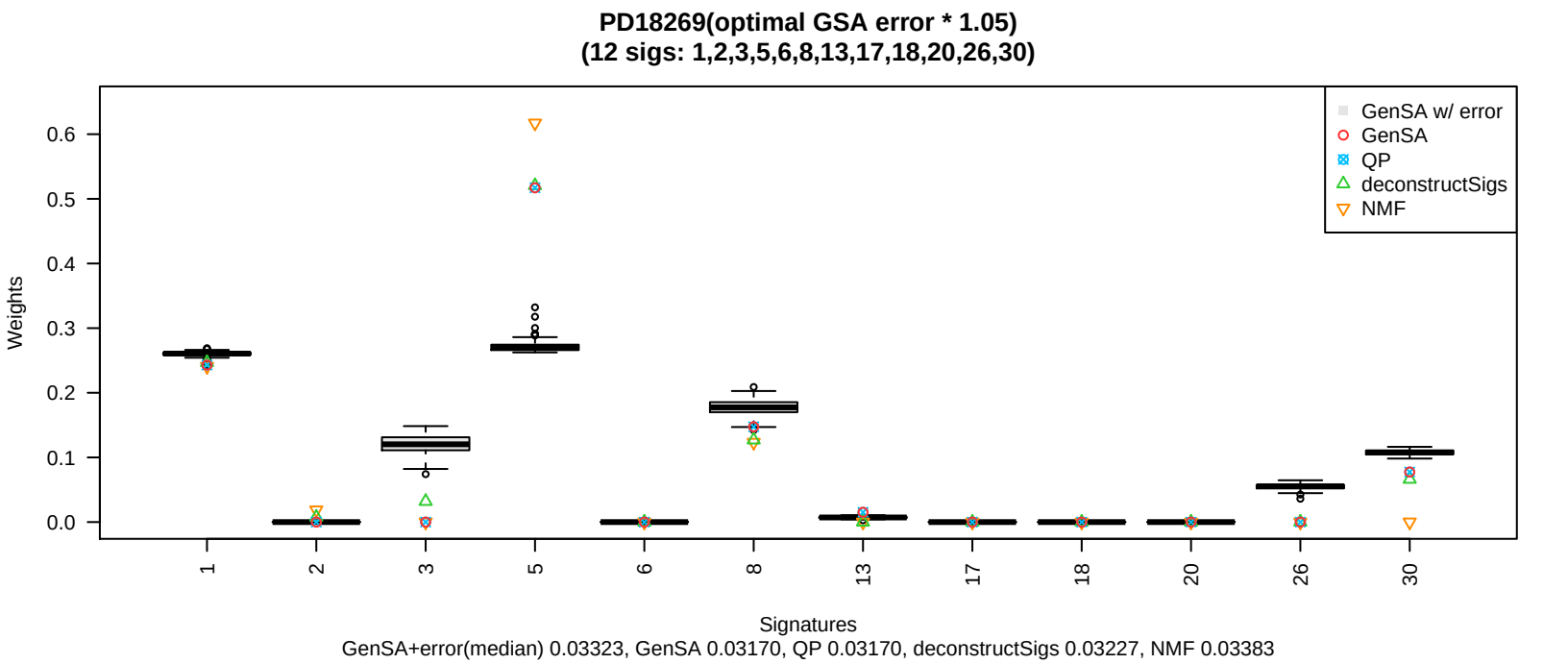
GenSA+error(median) 0.03794, GenSA 0.03636, QP 0.03636, deconstructSigs 0.03686, NMF 0.04115



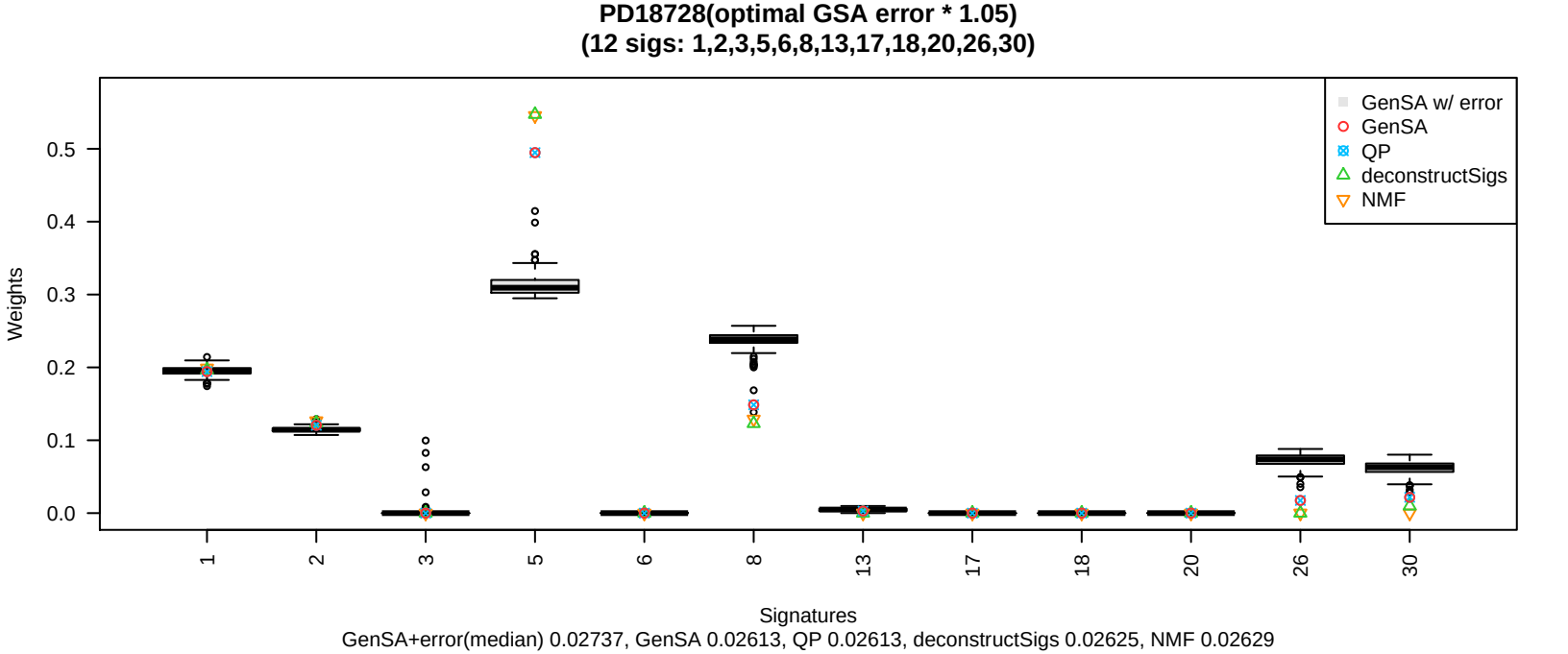
GenSA+error(median) 0.01779, GenSA 0.01710, QP 0.01710, deconstructSigs 0.01717, NMF 0.01917



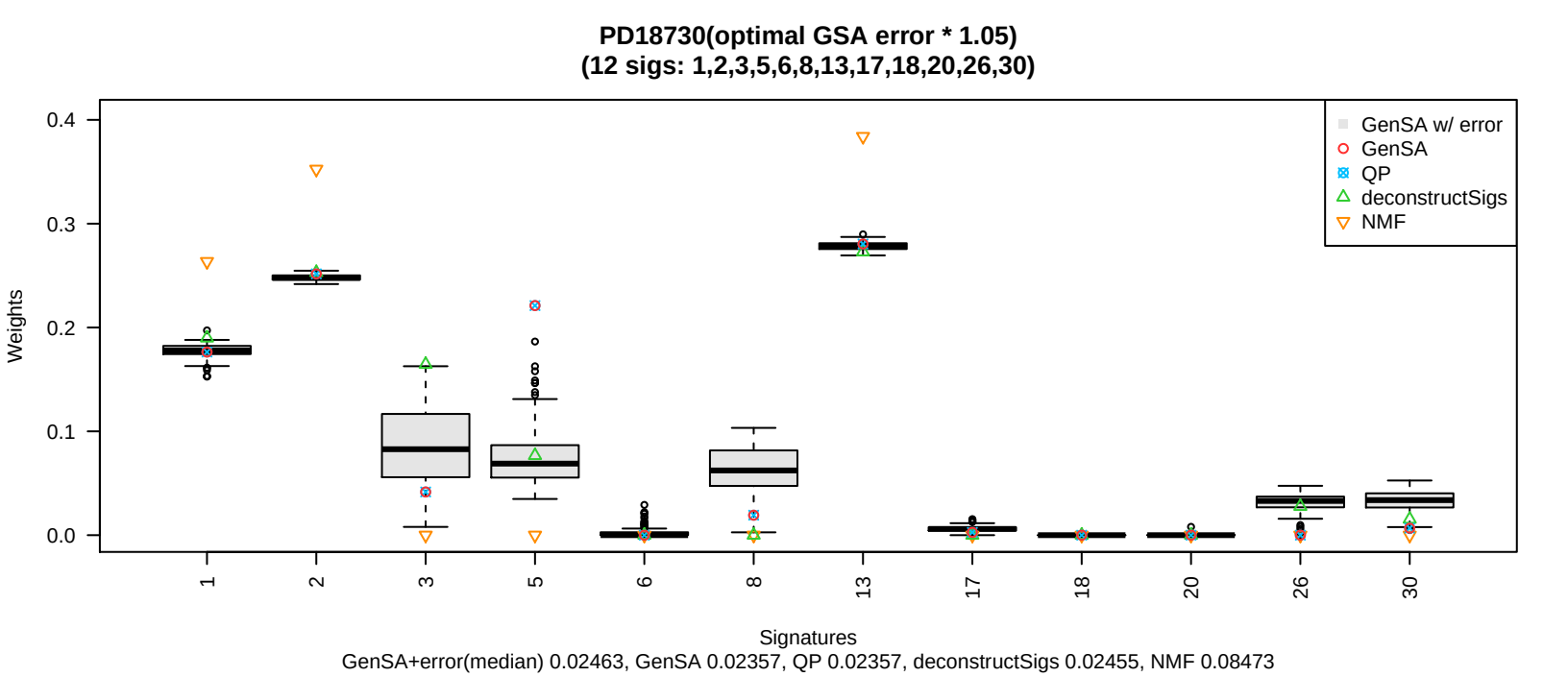
GenSA+error(median) 0.01351, GenSA 0.01292, QP 0.01292, deconstructSigs 0.01345, NMF 0.11033

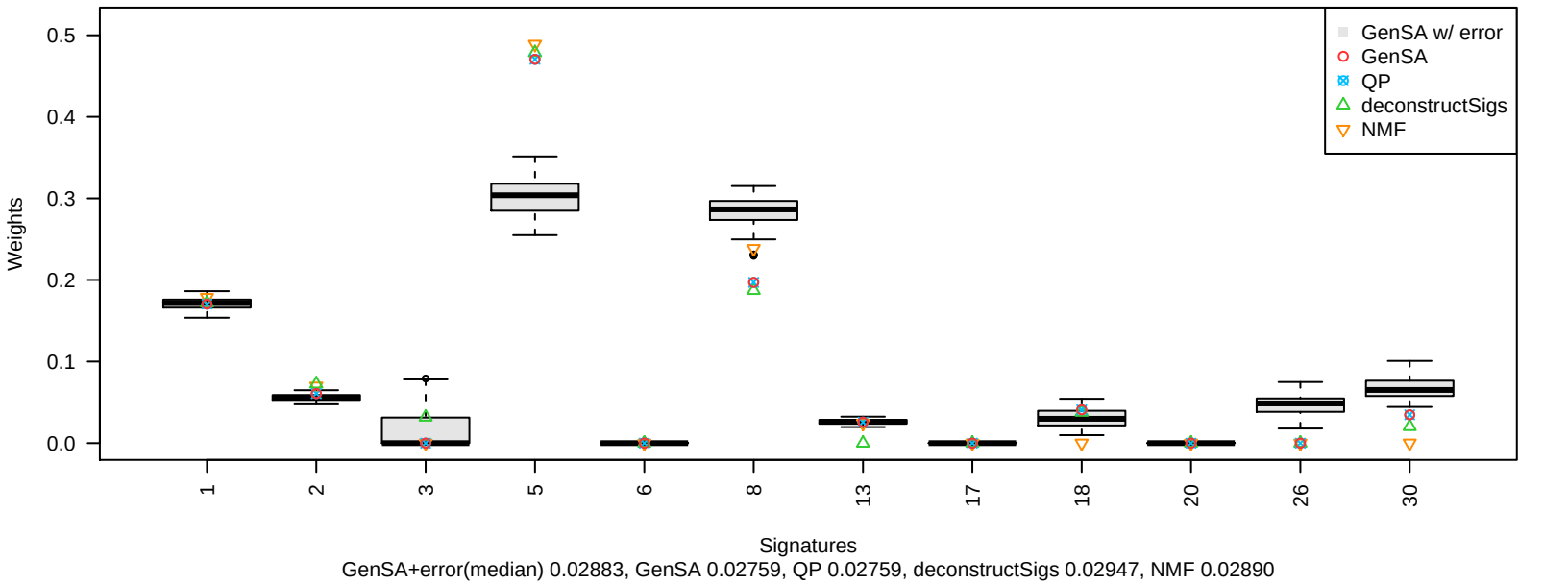


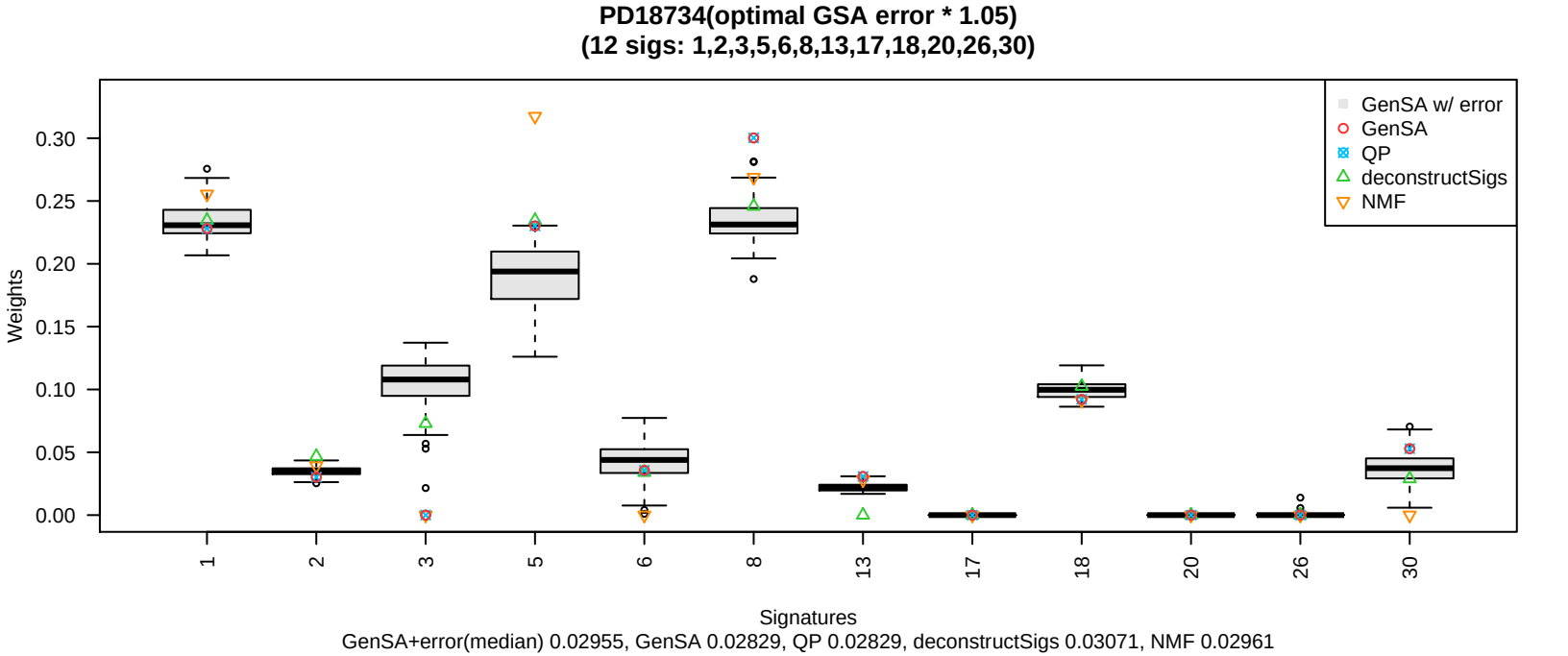
GenSA+error(median) 0.03323, GenSA 0.03170, QP 0.03170, deconstructSigs 0.03227, NMF 0.03383

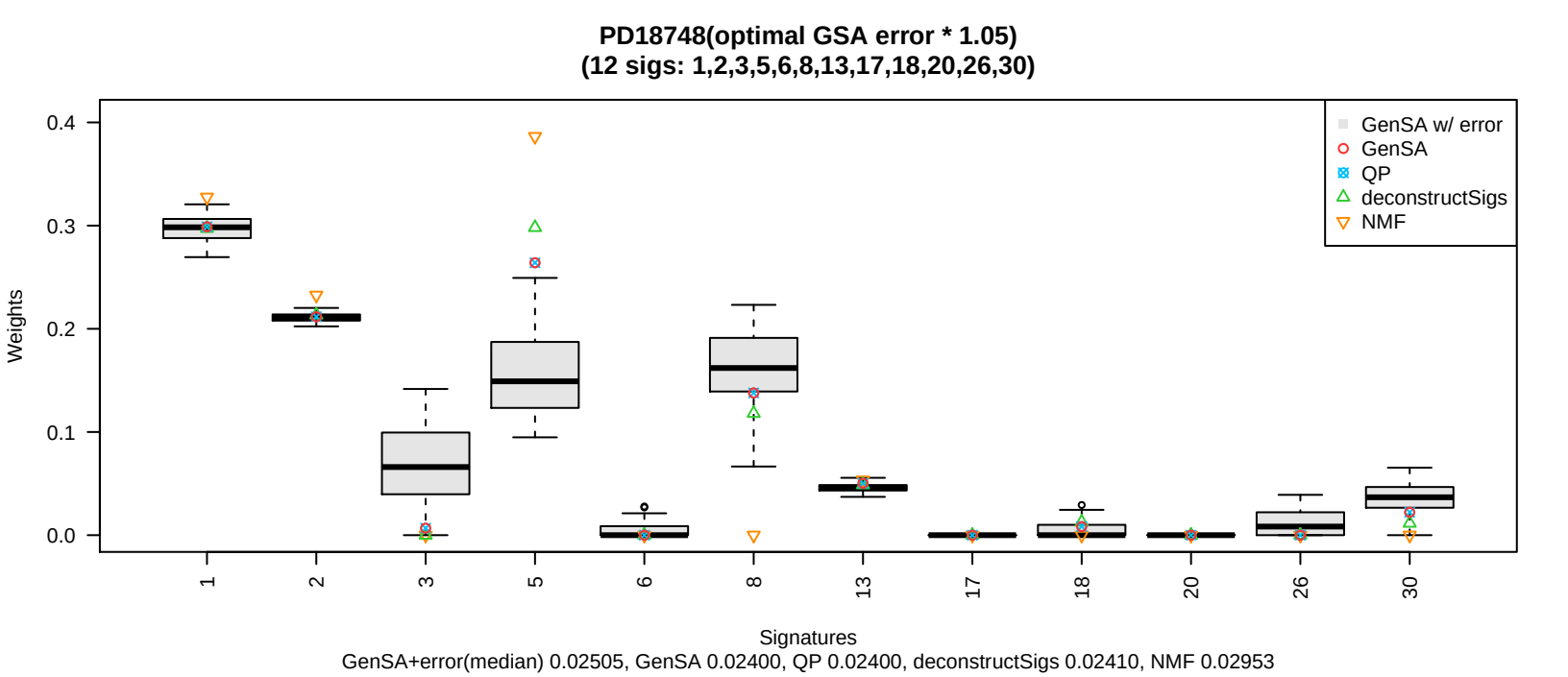


GenSA+error(median) 0.02737, GenSA 0.02613, QP 0.02613, deconstructSigs 0.02625, NMF 0.02629

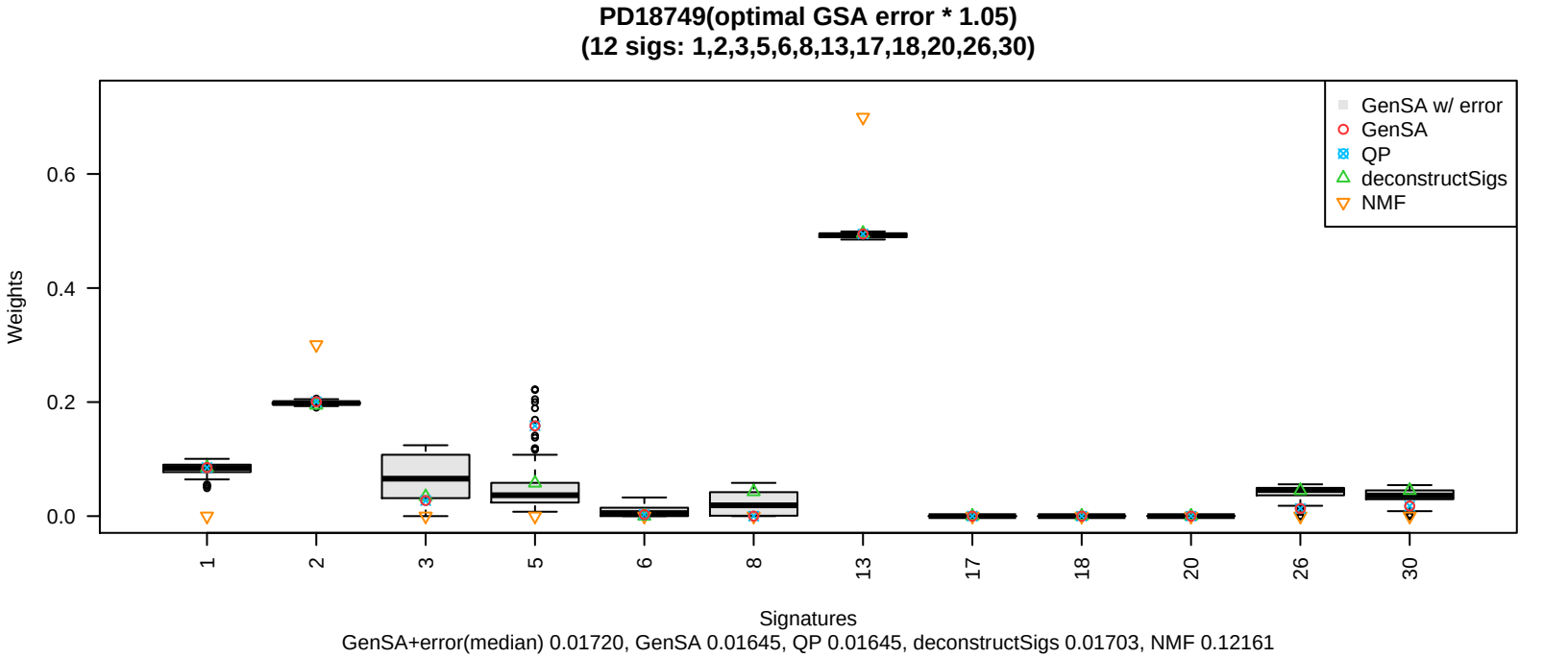

PD18730(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02463, GenSA 0.02357, QP 0.02357, deconstructSigs 0.02455, NMF 0.08473


PD18733(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02883, GenSA 0.02759, QP 0.02759, deconstructSigs 0.02947, NMF 0.02890

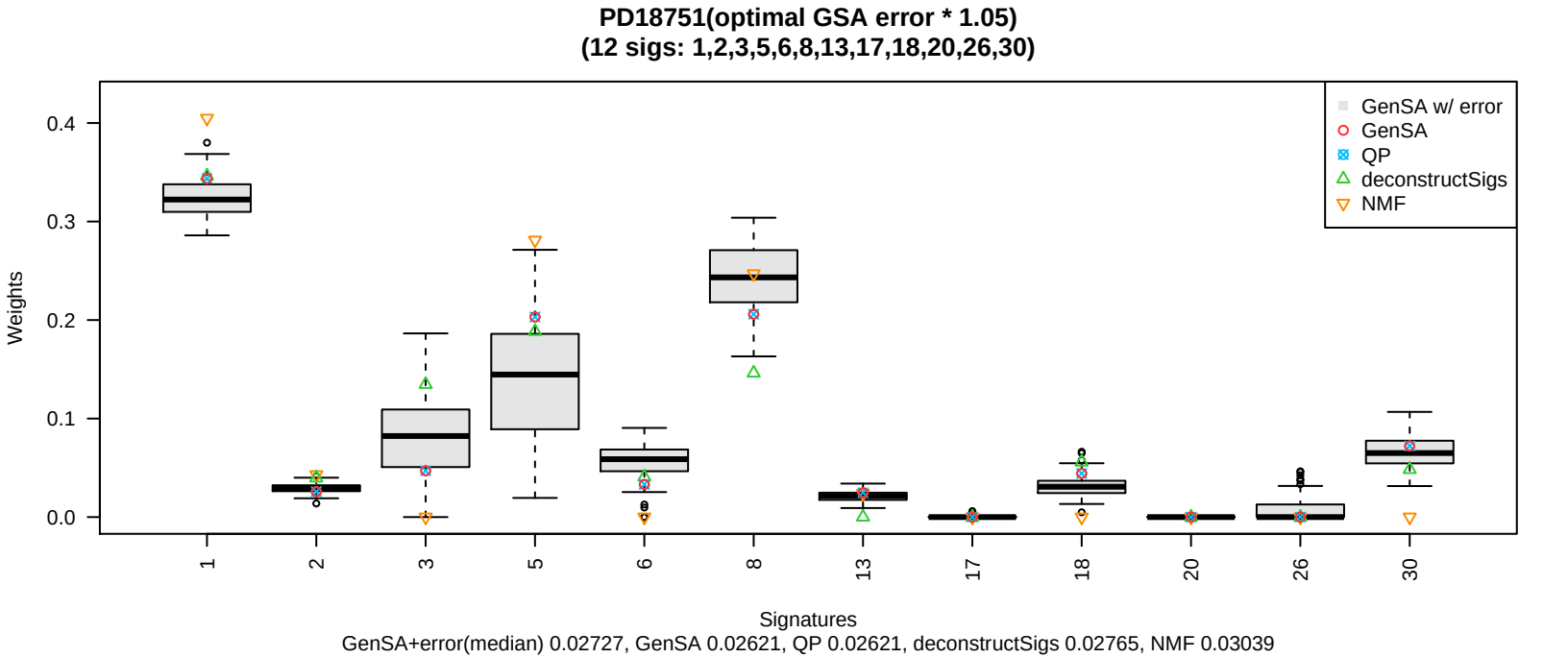

PD18734(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.00
0.05
0.10
0.15
0.20
0.25
0.30
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02955, GenSA 0.02829, QP 0.02829, deconstructSigs 0.03071, NMF 0.02961



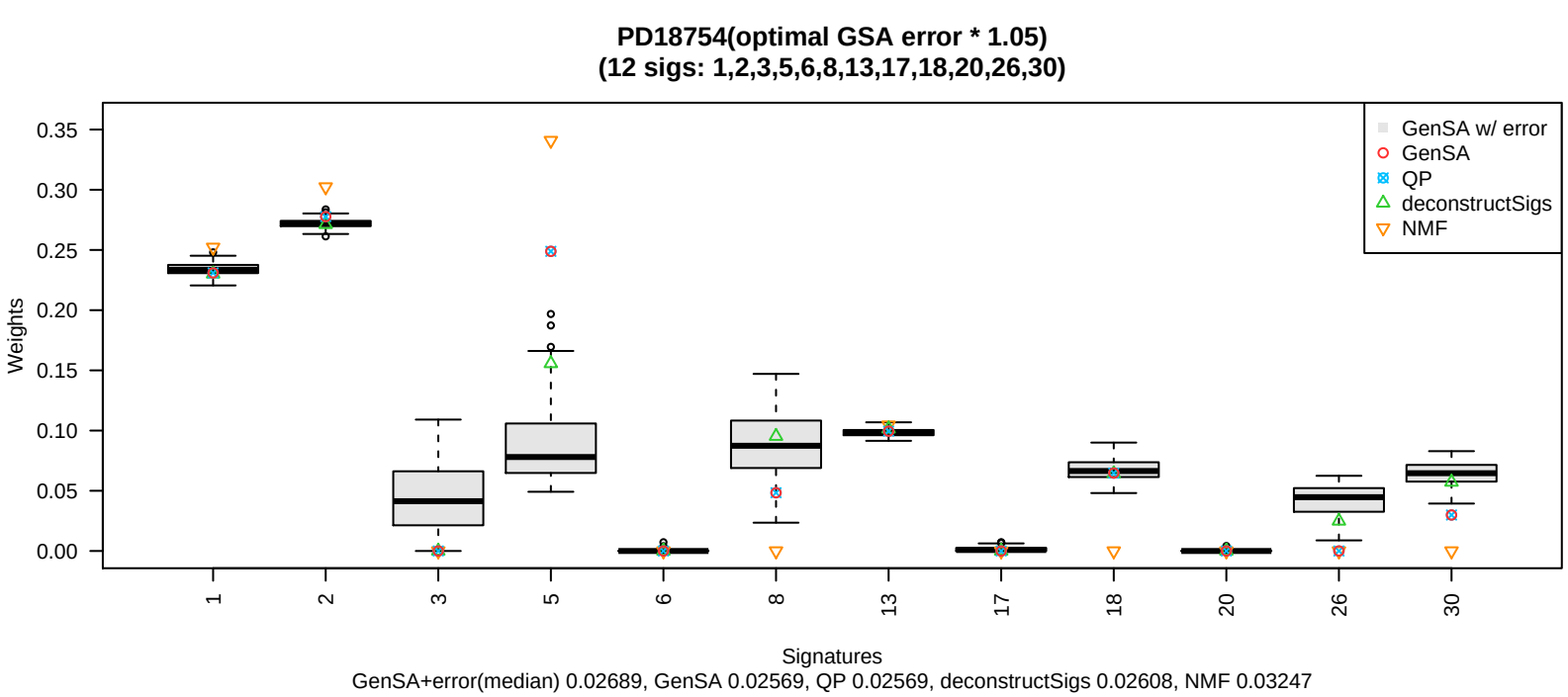
GenSA+error(median) 0.02505, GenSA 0.02400, QP 0.02400, deconstructSigs 0.02410, NMF 0.02953



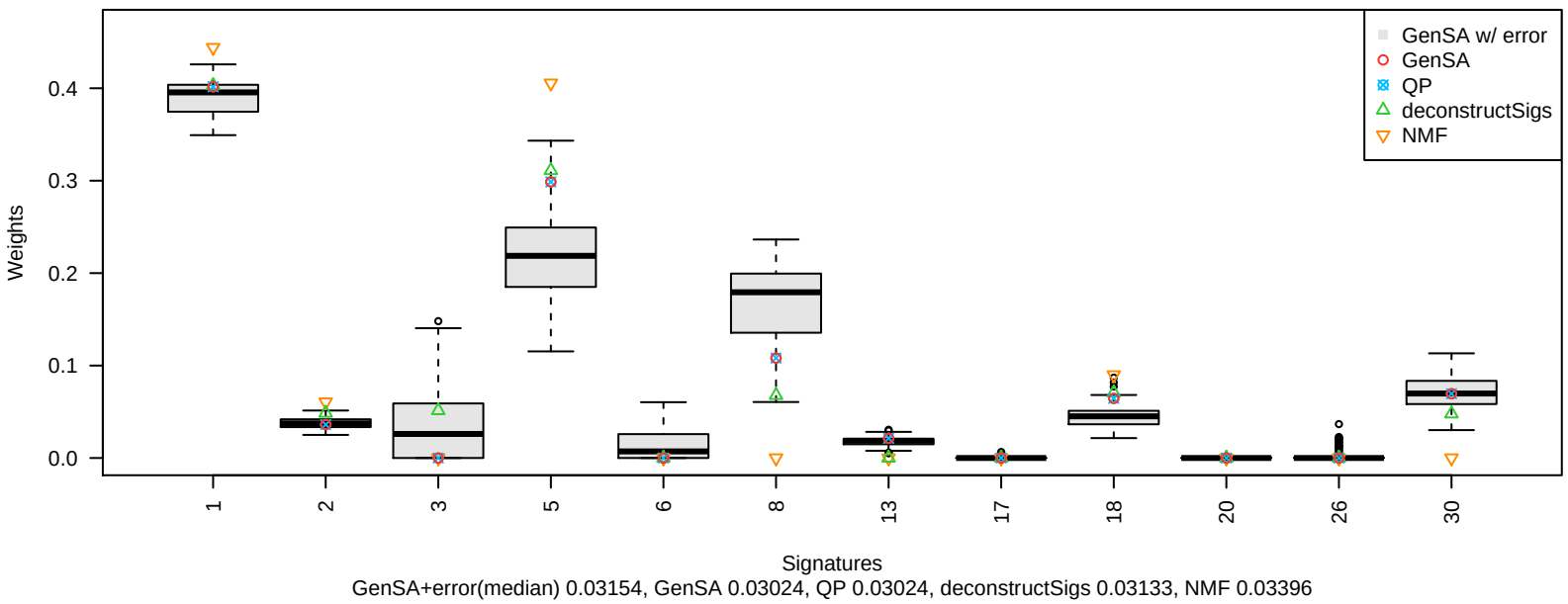
GenSA+error(median) 0.01720, GenSA 0.01645, QP 0.01645, deconstructSigs 0.01703, NMF 0.12161



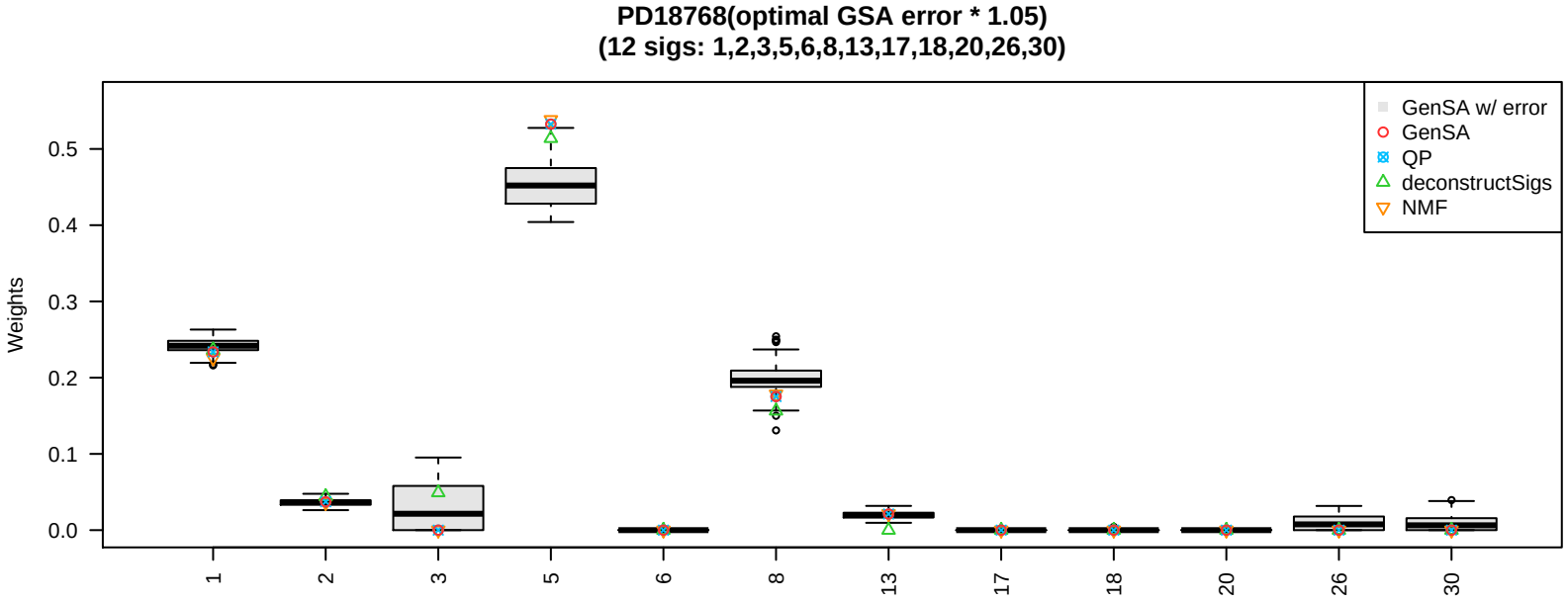
GenSA+error(median) 0.02727, GenSA 0.02621, QP 0.02621, deconstructSigs 0.02765, NMF 0.03039



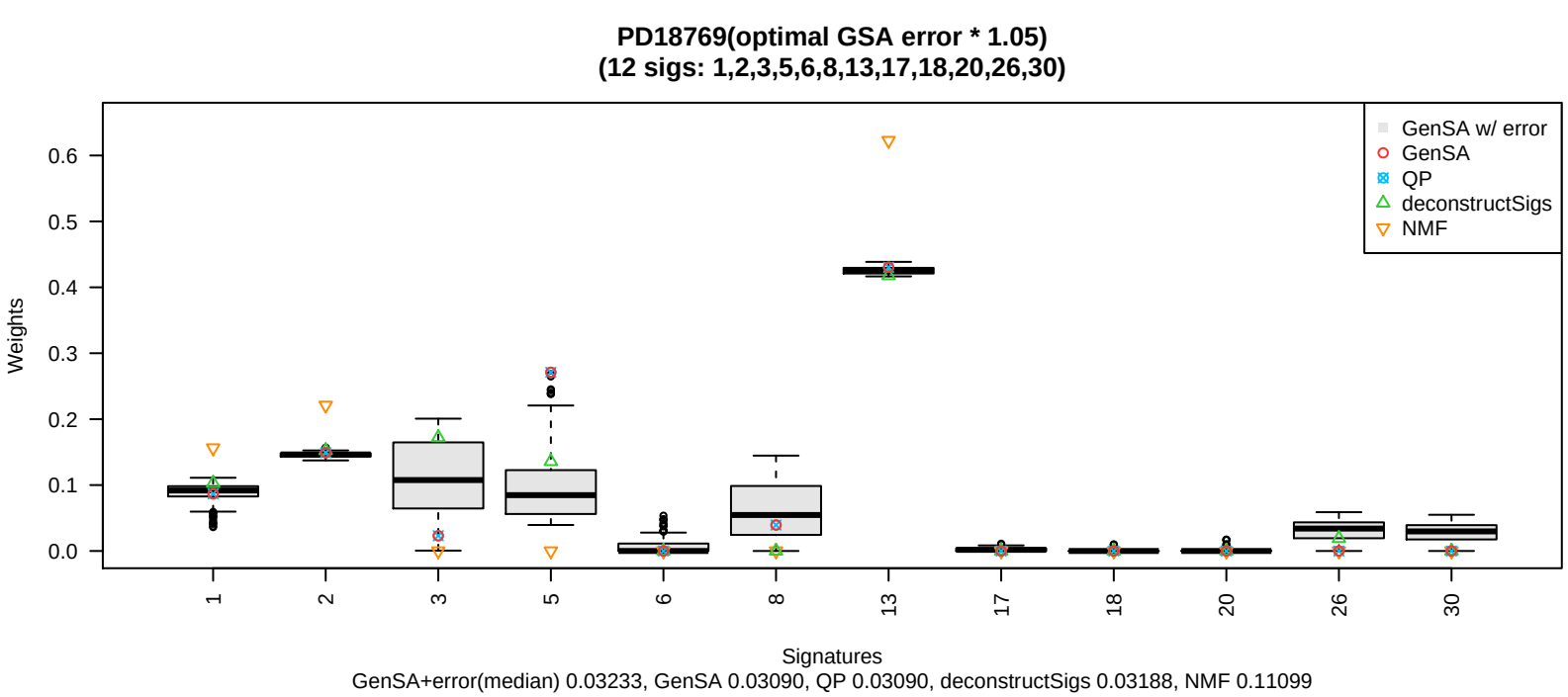
GenSA+error(median) 0.02689, GenSA 0.02569, QP 0.02569, deconstructSigs 0.02608, NMF 0.03247



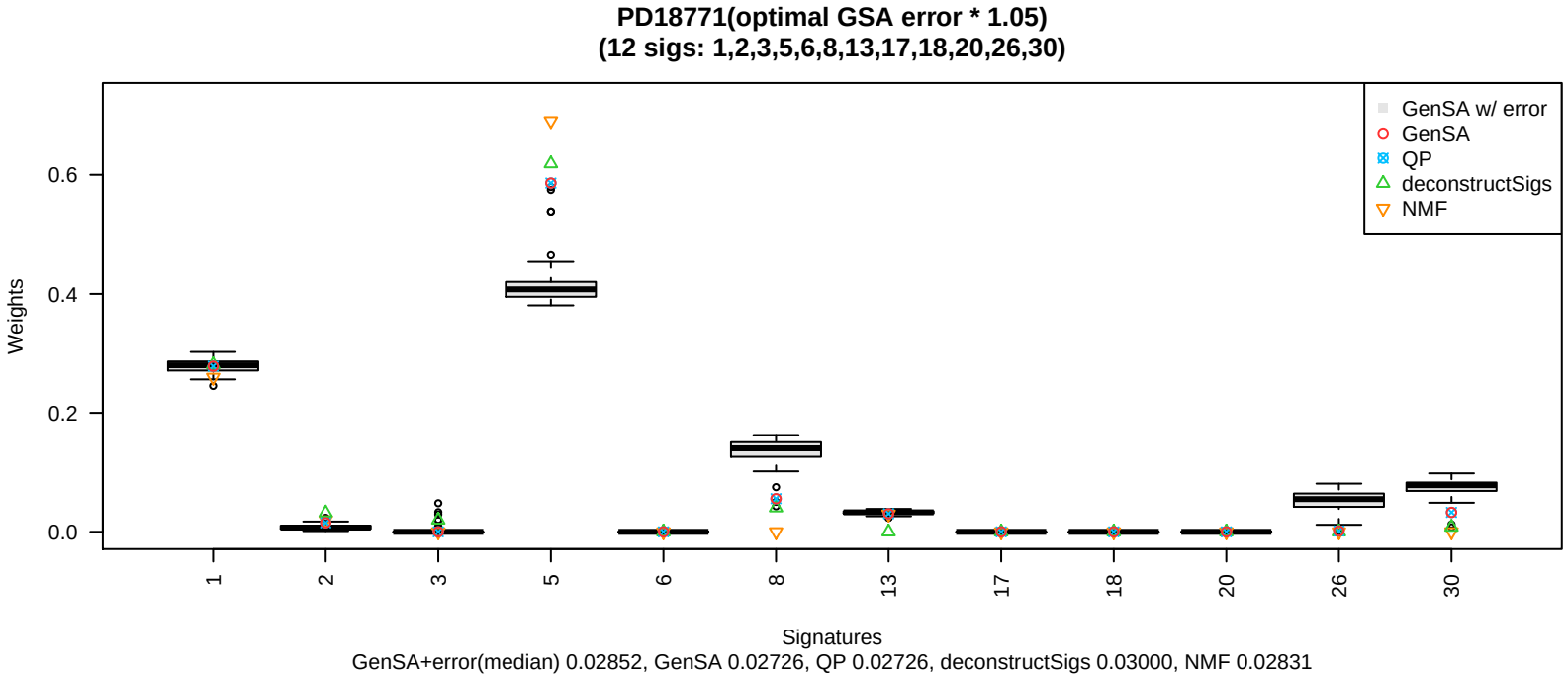
GenSA+error(median) 0.03154, GenSA 0.03024, QP 0.03024, deconstructSigs 0.03133, NMF 0.03396



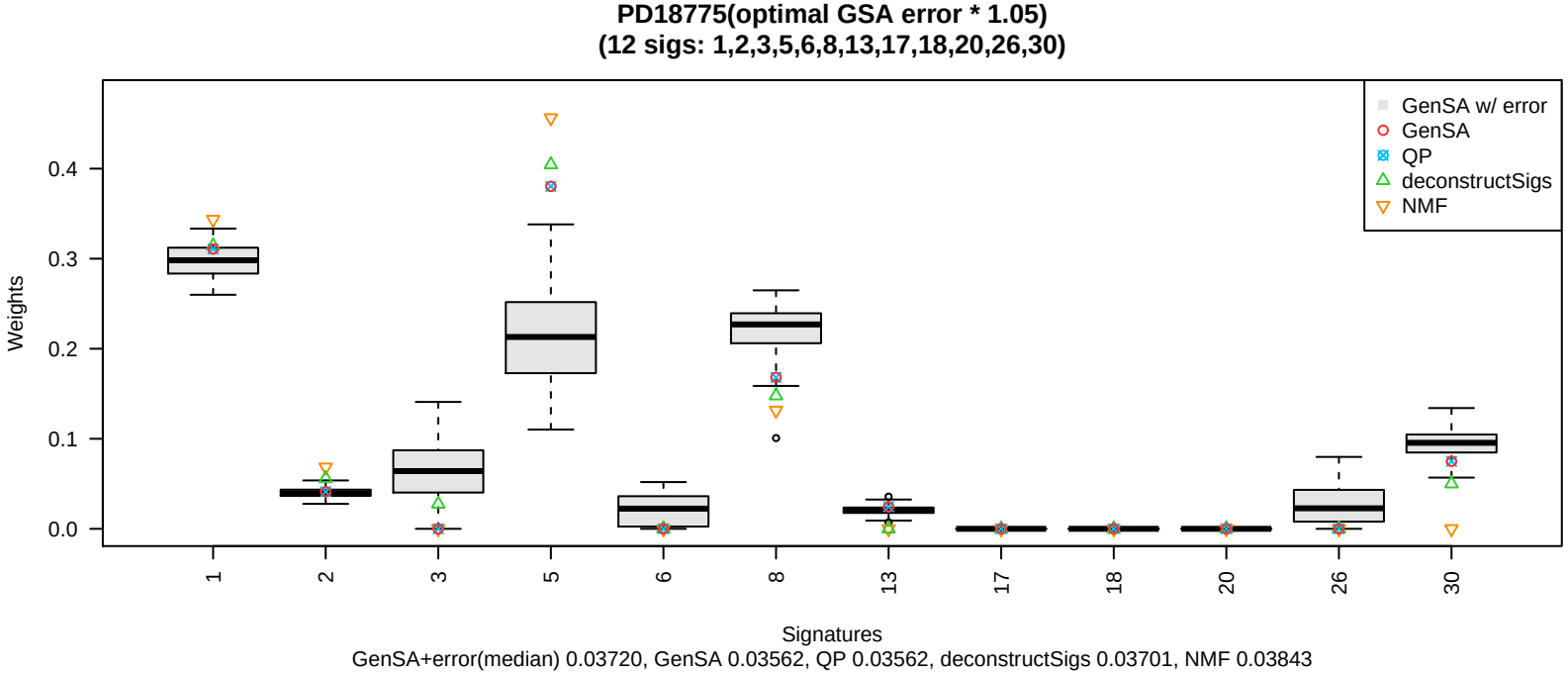
GenSA+error(median) 0.02643, GenSA 0.02539, QP 0.02539, deconstructSigs 0.02670, NMF 0.02546



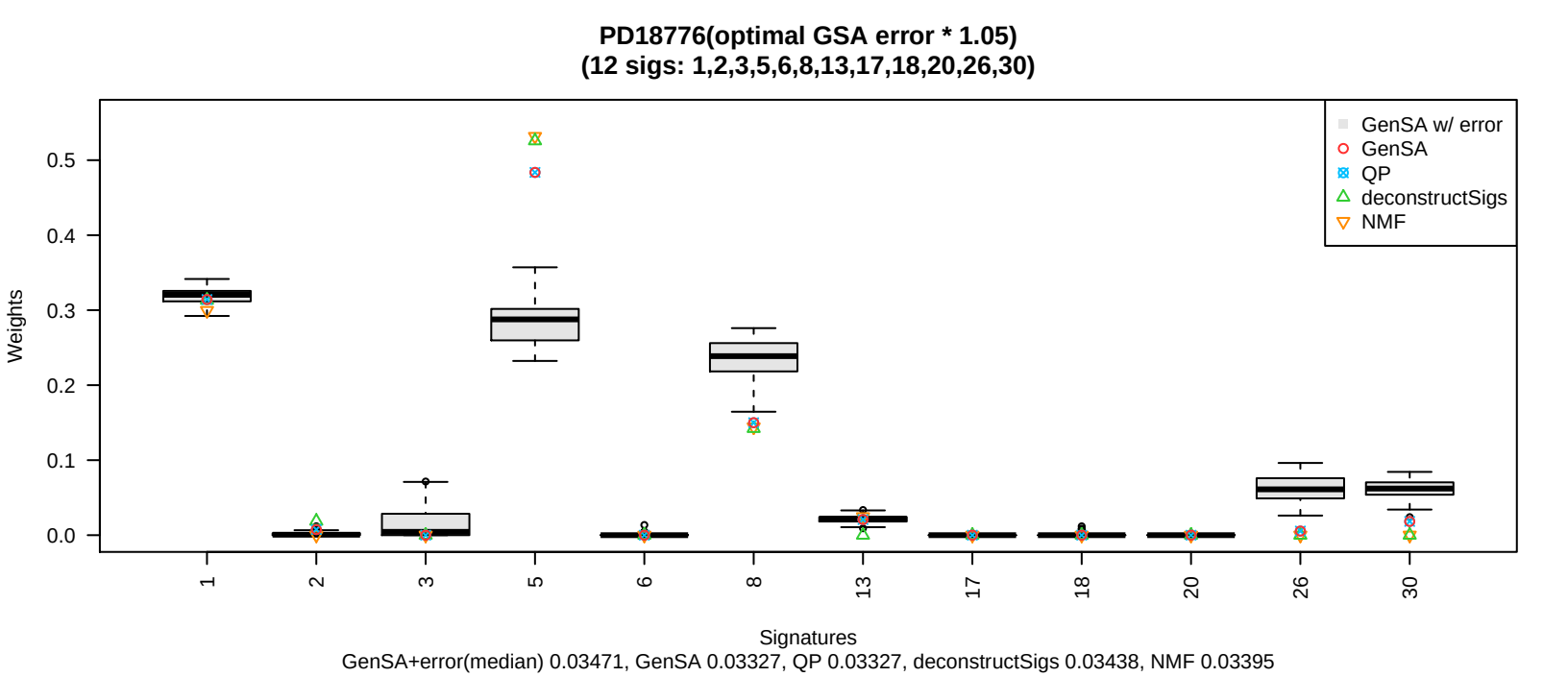
GenSA+error(median) 0.03233, GenSA 0.03090, QP 0.03090, deconstructSigs 0.03188, NMF 0.11099



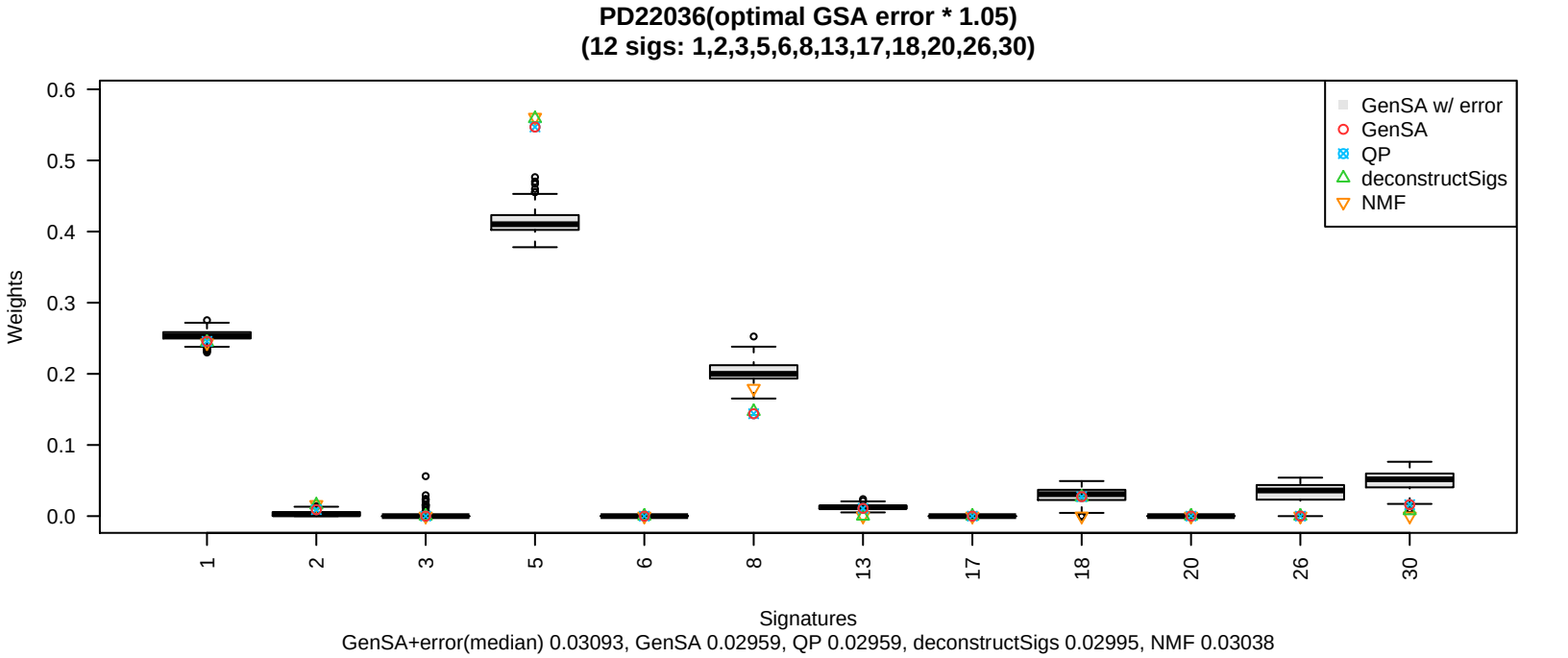
GenSA+error(median) 0.02852, GenSA 0.02726, QP 0.02726, deconstructSigs 0.03000, NMF 0.02831



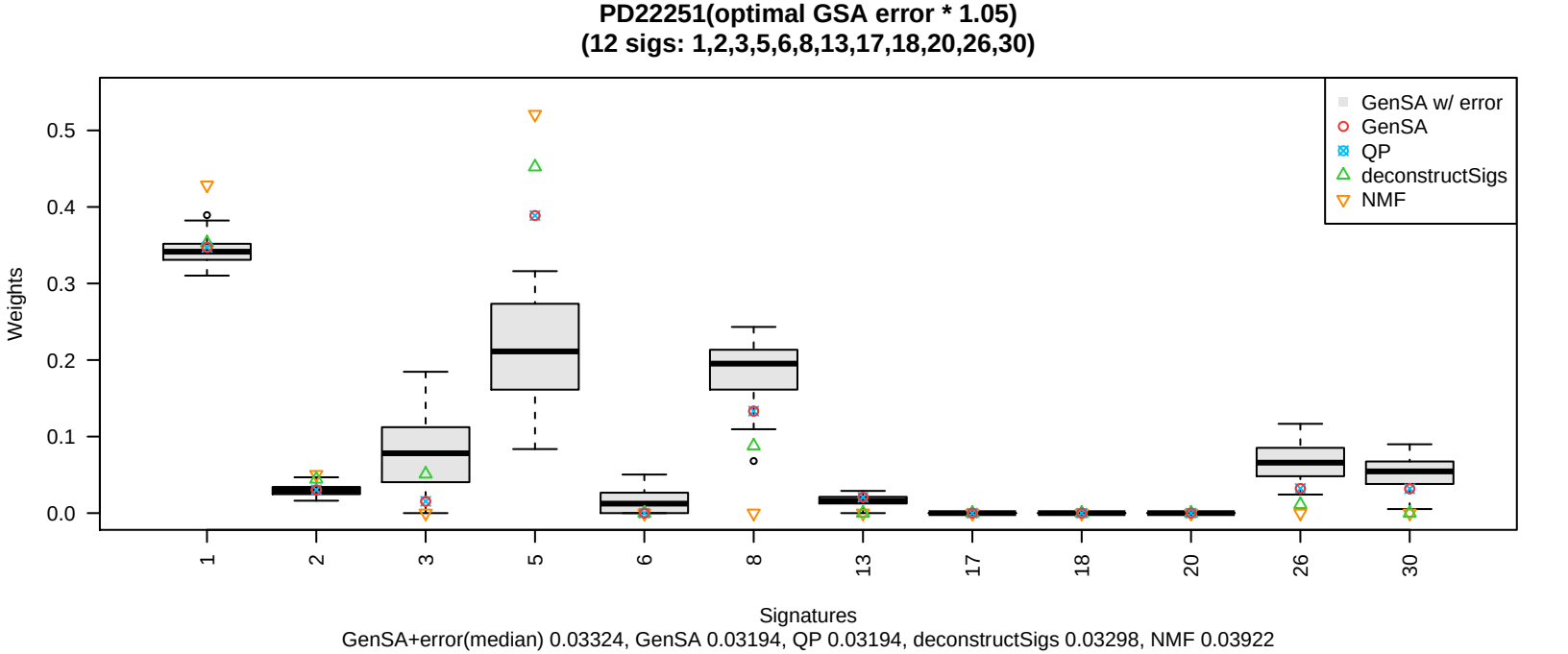
GenSA+error(median) 0.03720, GenSA 0.03562, QP 0.03562, deconstructSigs 0.03701, NMF 0.03843



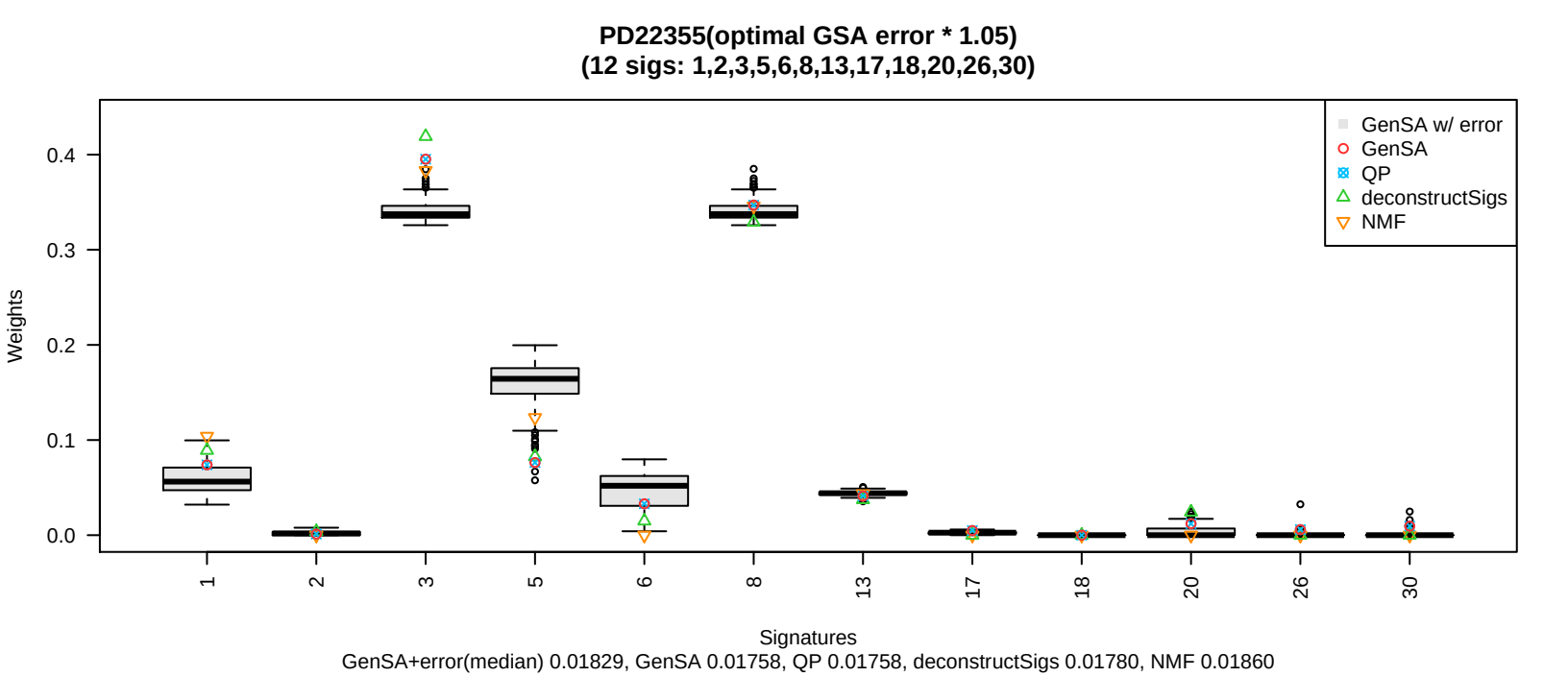
GenSA+error(median) 0.03471, GenSA 0.03327, QP 0.03327, deconstructSigs 0.03438, NMF 0.03395

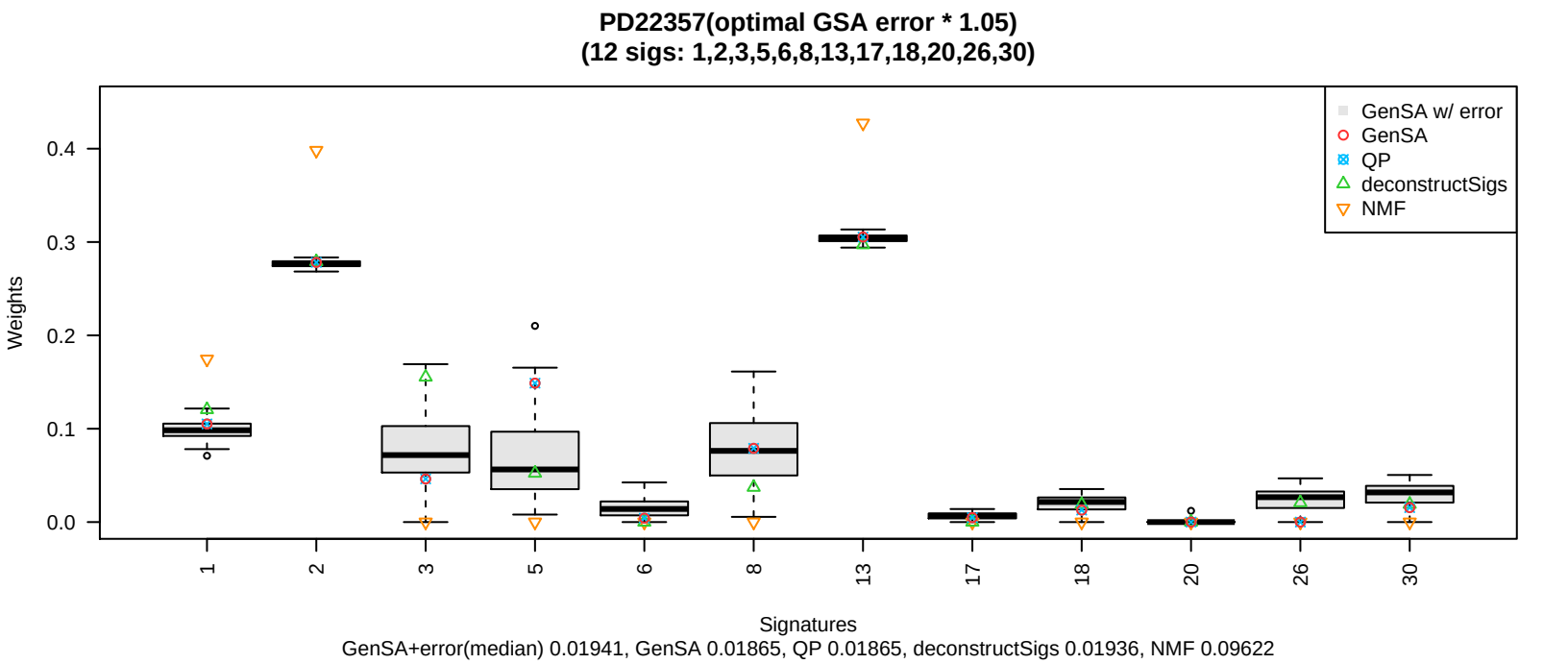


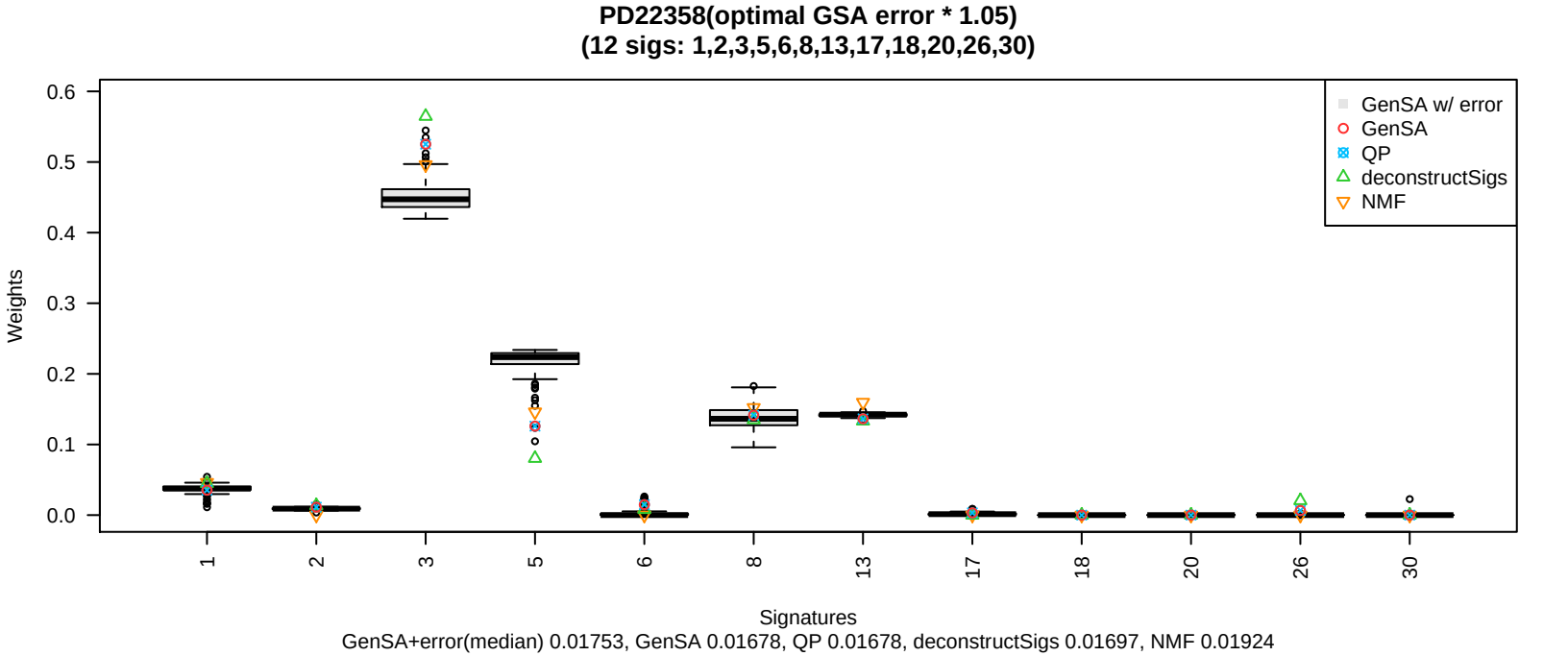
GenSA+error(median) 0.03093, GenSA 0.02959, QP 0.02959, deconstructSigs 0.02995, NMF 0.03038

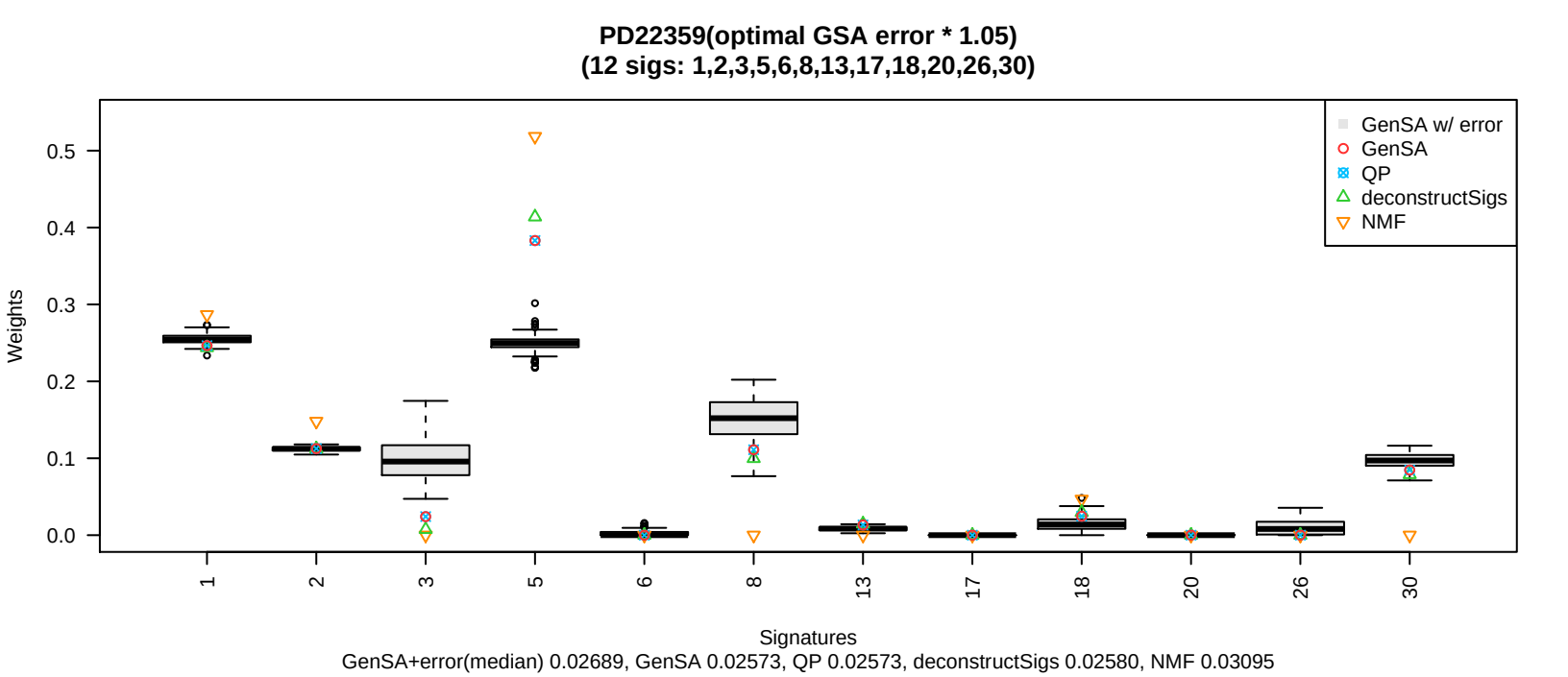


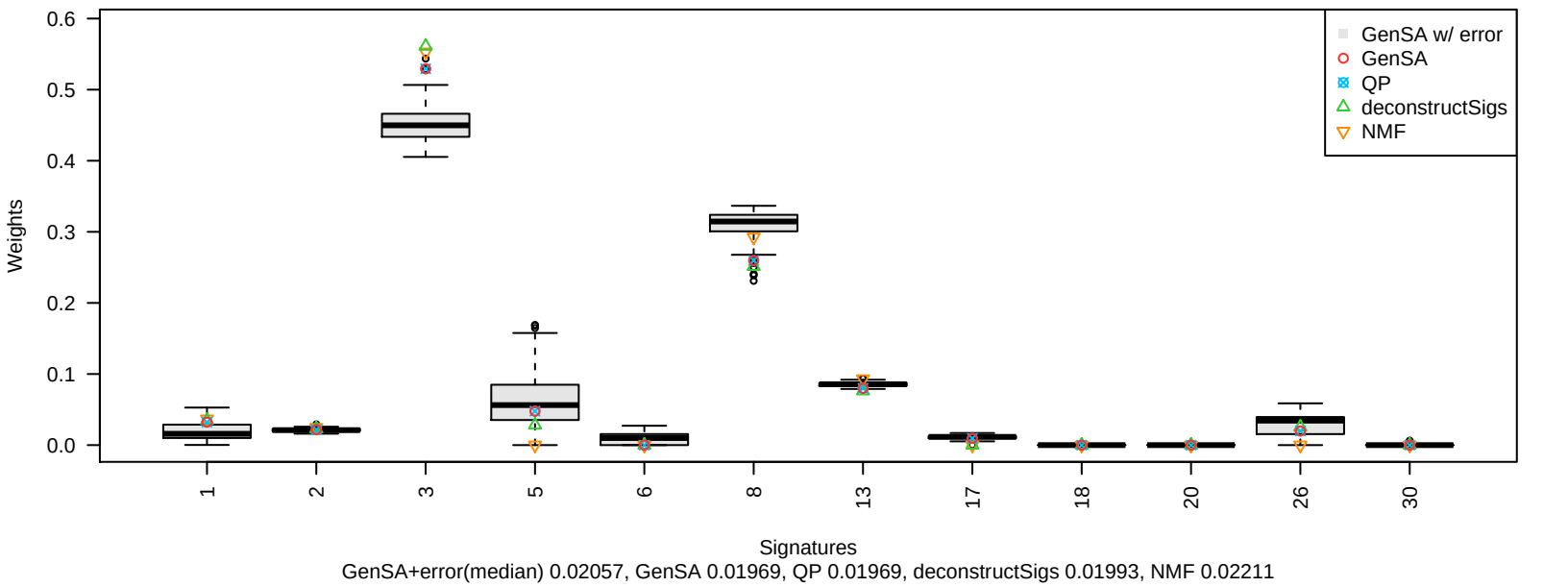
GenSA+error(median) 0.03324, GenSA 0.03194, QP 0.03194, deconstructSigs 0.03298, NMF 0.03922

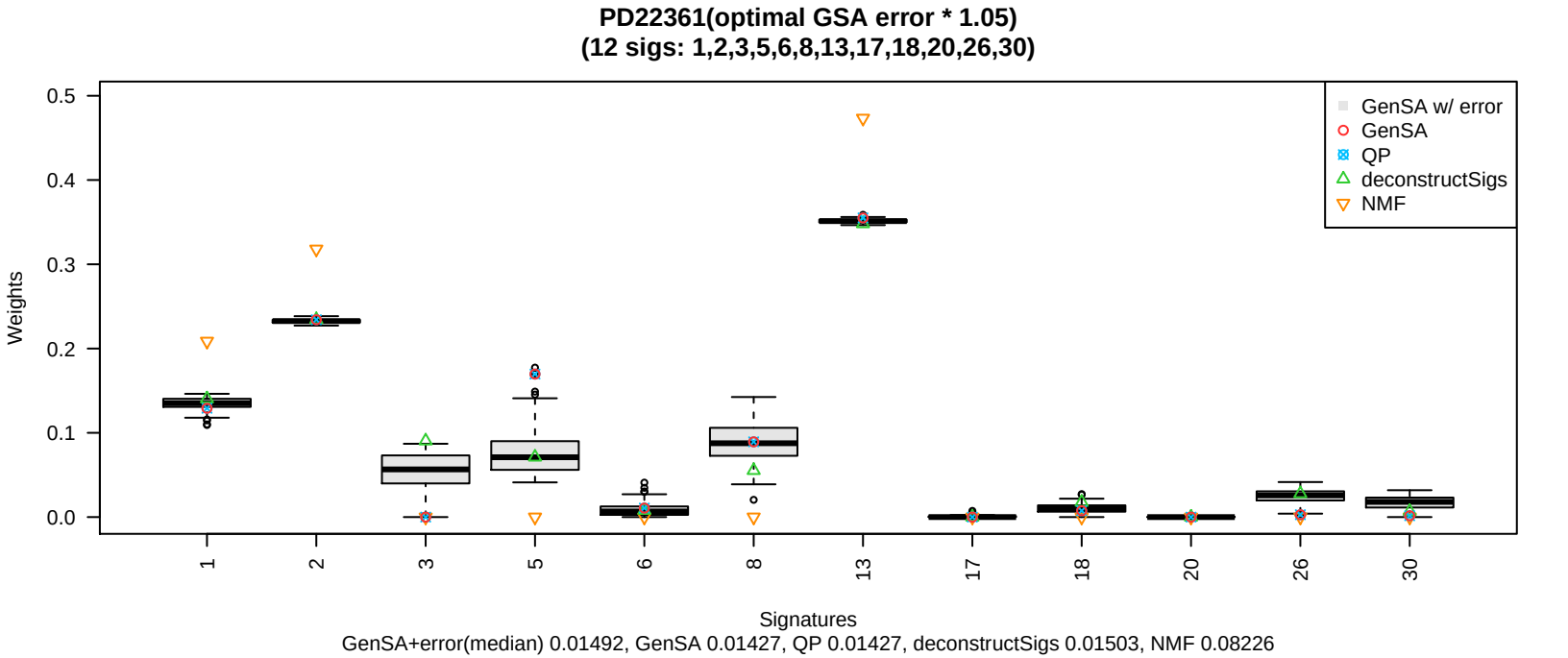

PD22355(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01829, GenSA 0.01758, QP 0.01758, deconstructSigs 0.01780, NMF 0.01860

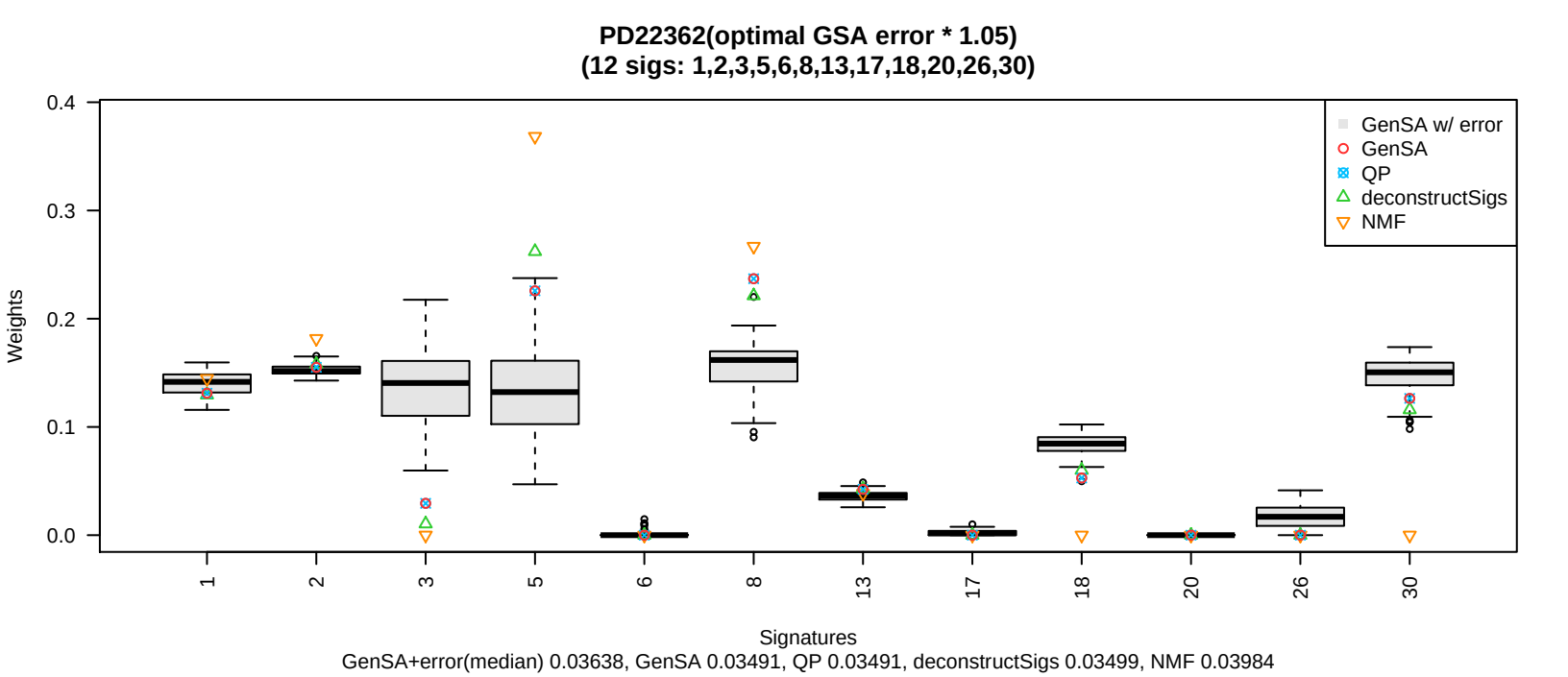

PD22357(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01941, GenSA 0.01865, QP 0.01865, deconstructSigs 0.01936, NMF 0.09622


PD22358(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01753, GenSA 0.01678, QP 0.01678, deconstructSigs 0.01697, NMF 0.01924

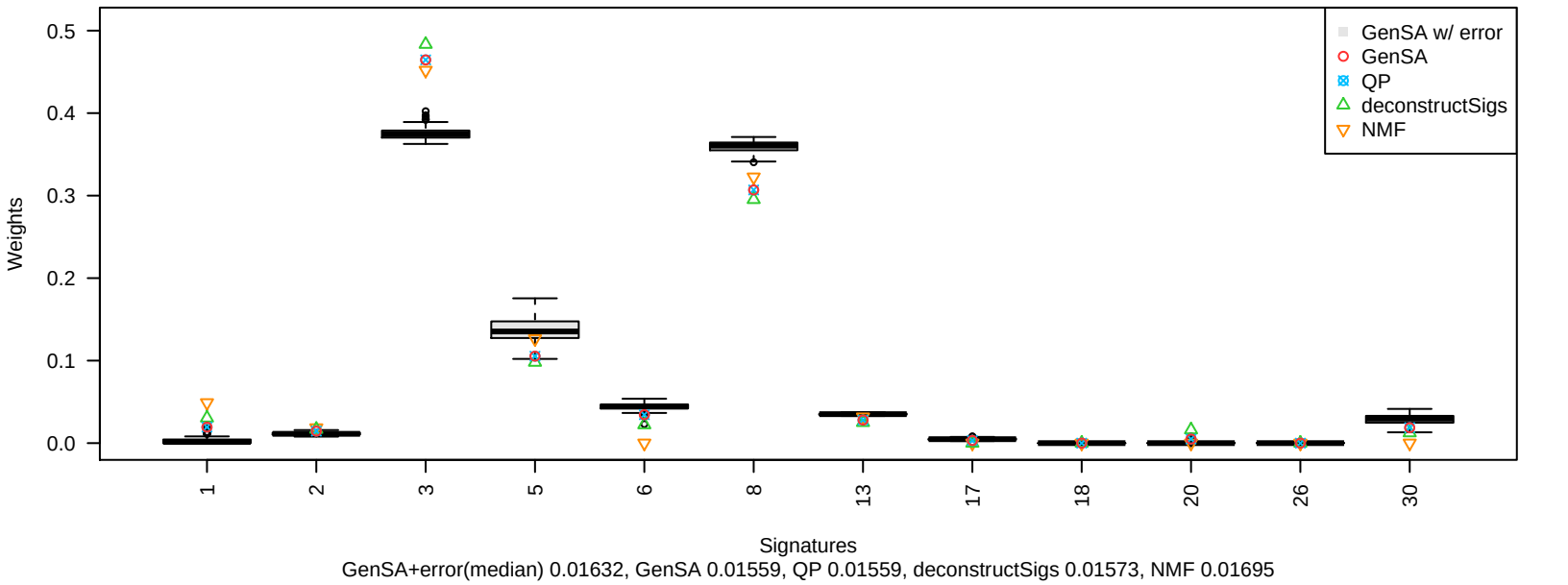

PD22359(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02689, GenSA 0.02573, QP 0.02573, deconstructSigs 0.02580, NMF 0.03095


PD22360(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02057, GenSA 0.01969, QP 0.01969, deconstructSigs 0.01993, NMF 0.02211

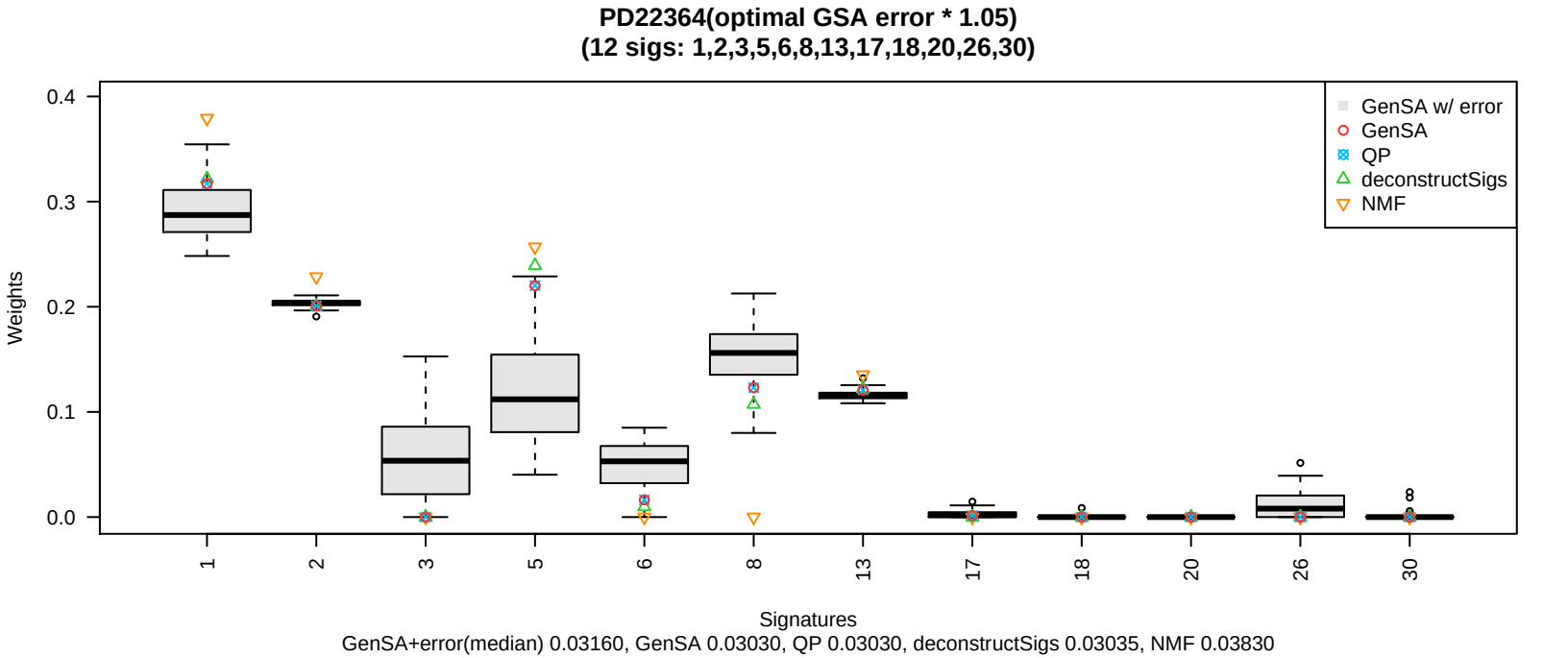

PD22361(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01492, GenSA 0.01427, QP 0.01427, deconstructSigs 0.01503, NMF 0.08226



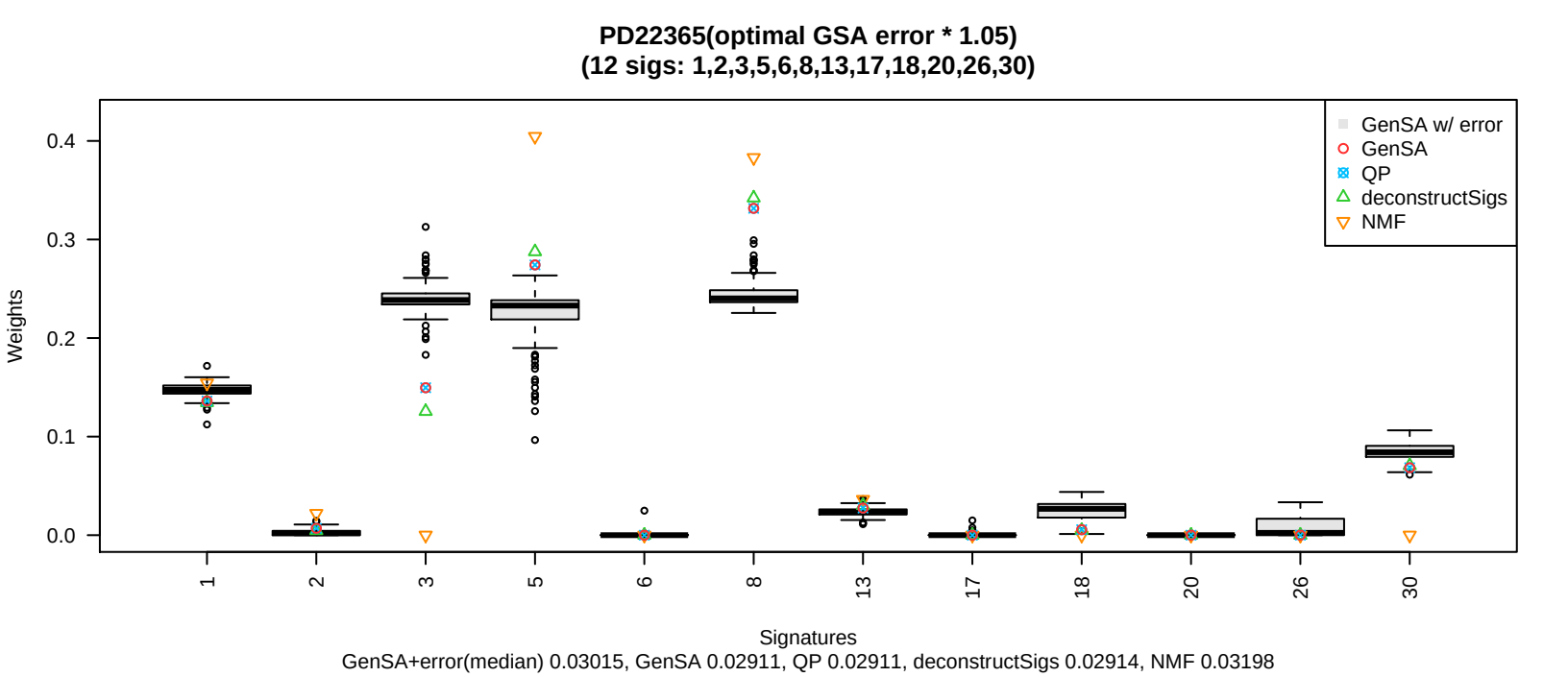
GenSA+error(median) 0.03638, GenSA 0.03491, QP 0.03491, deconstructSigs 0.03499, NMF 0.03984

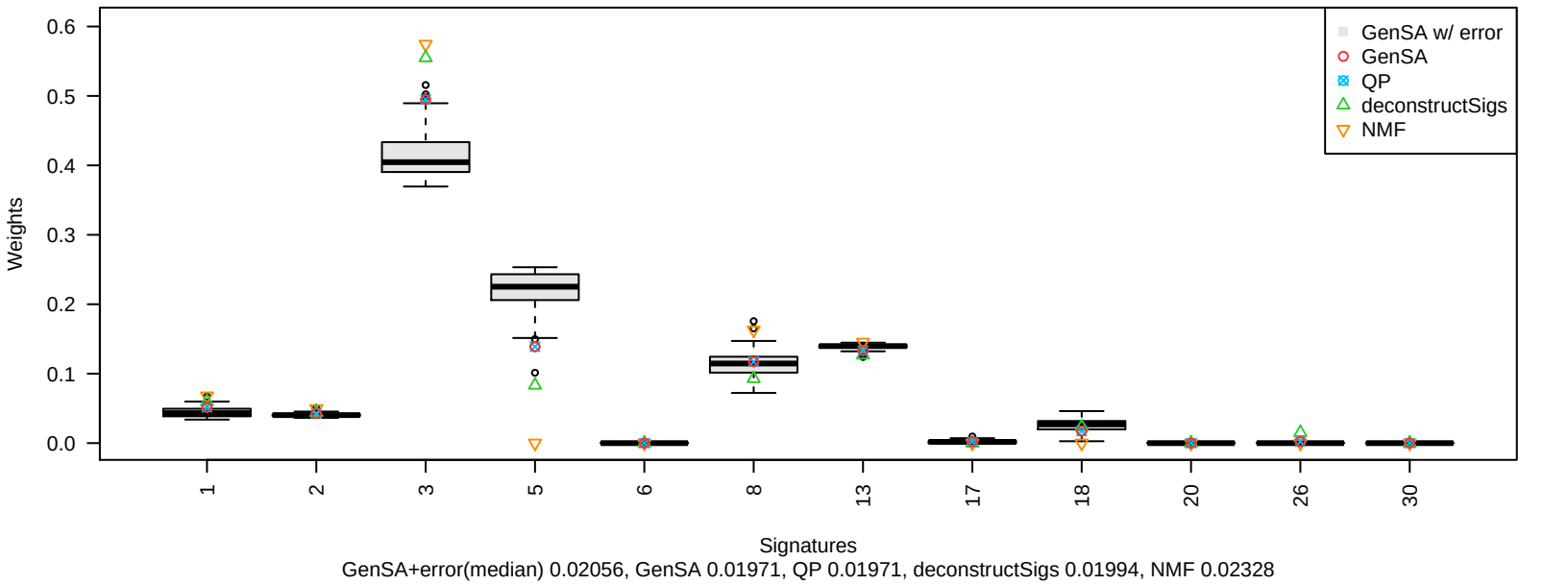


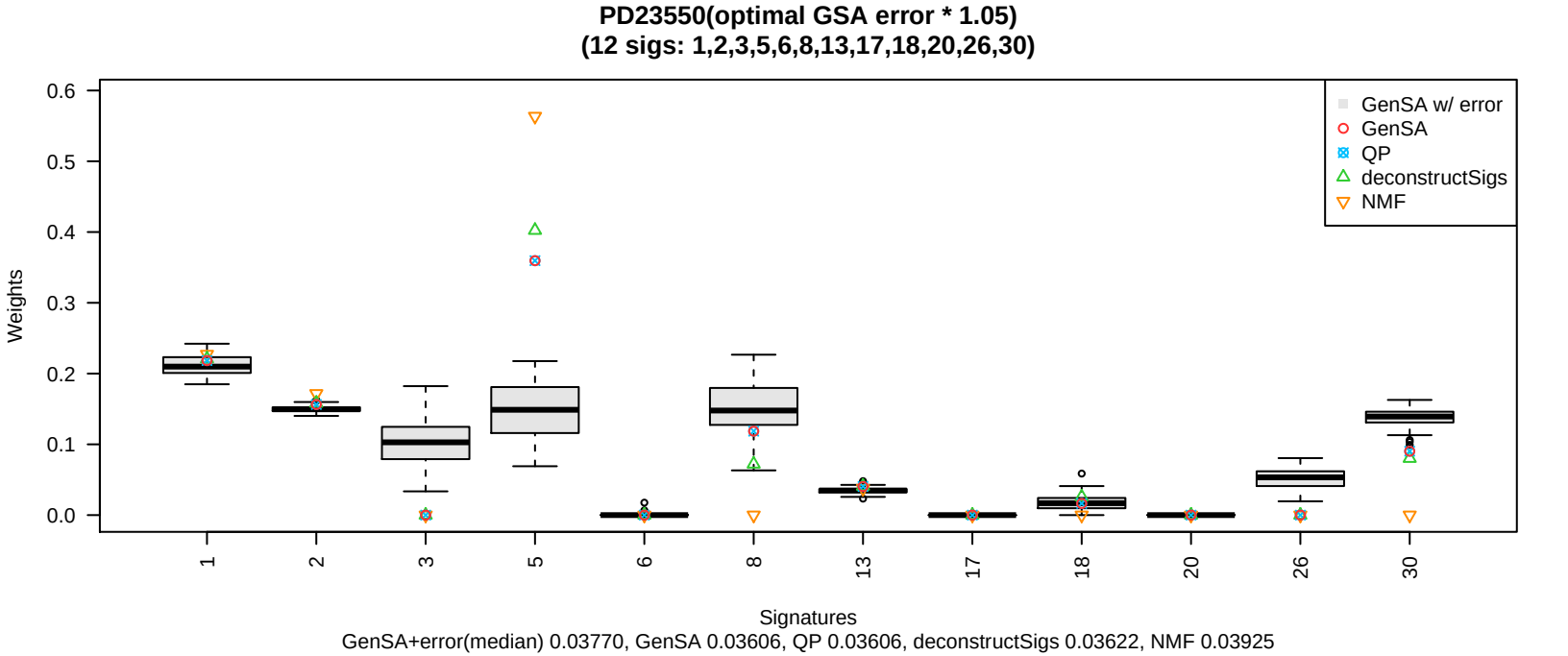
GenSA+error(median) 0.01632, GenSA 0.01559, QP 0.01559, deconstructSigs 0.01573, NMF 0.01695

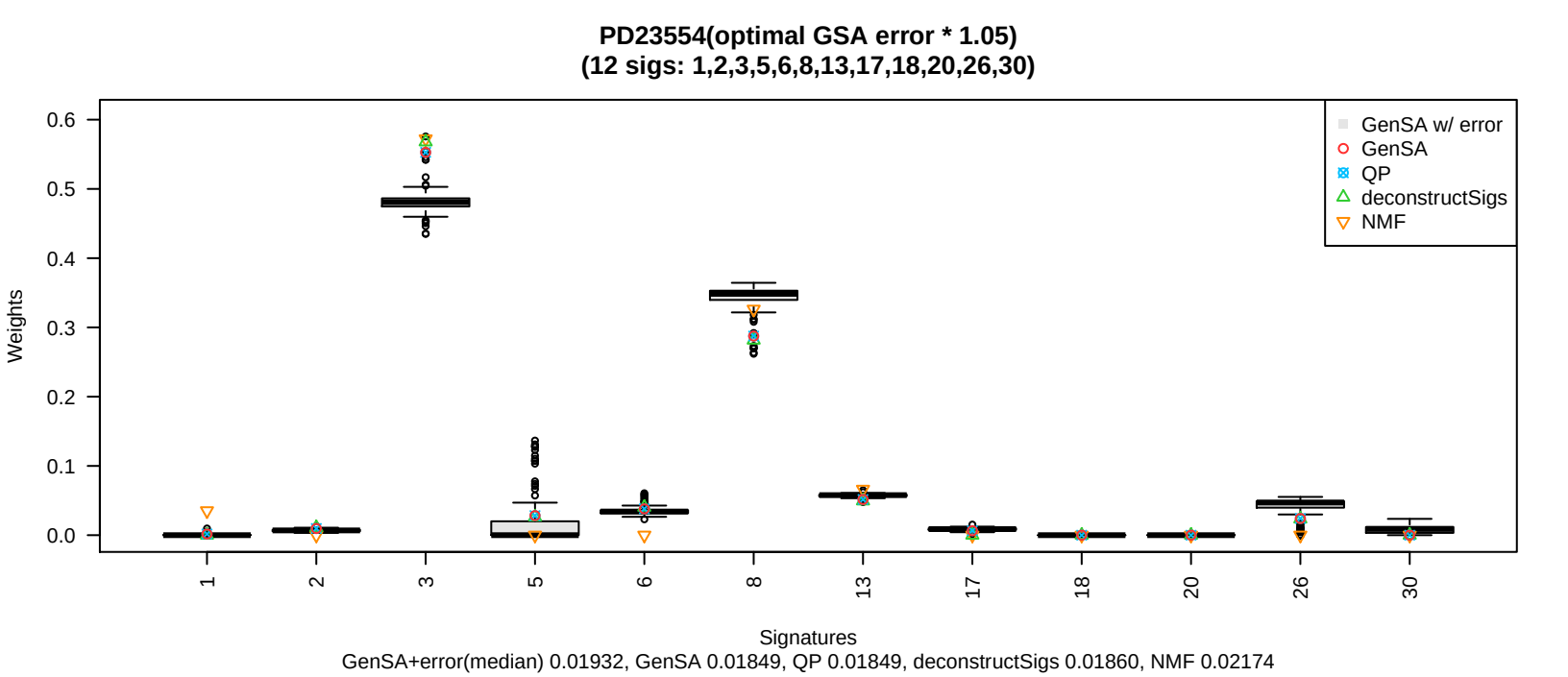


GenSA+error(median) 0.03160, GenSA 0.03030, QP 0.03030, deconstructSigs 0.03035, NMF 0.03830

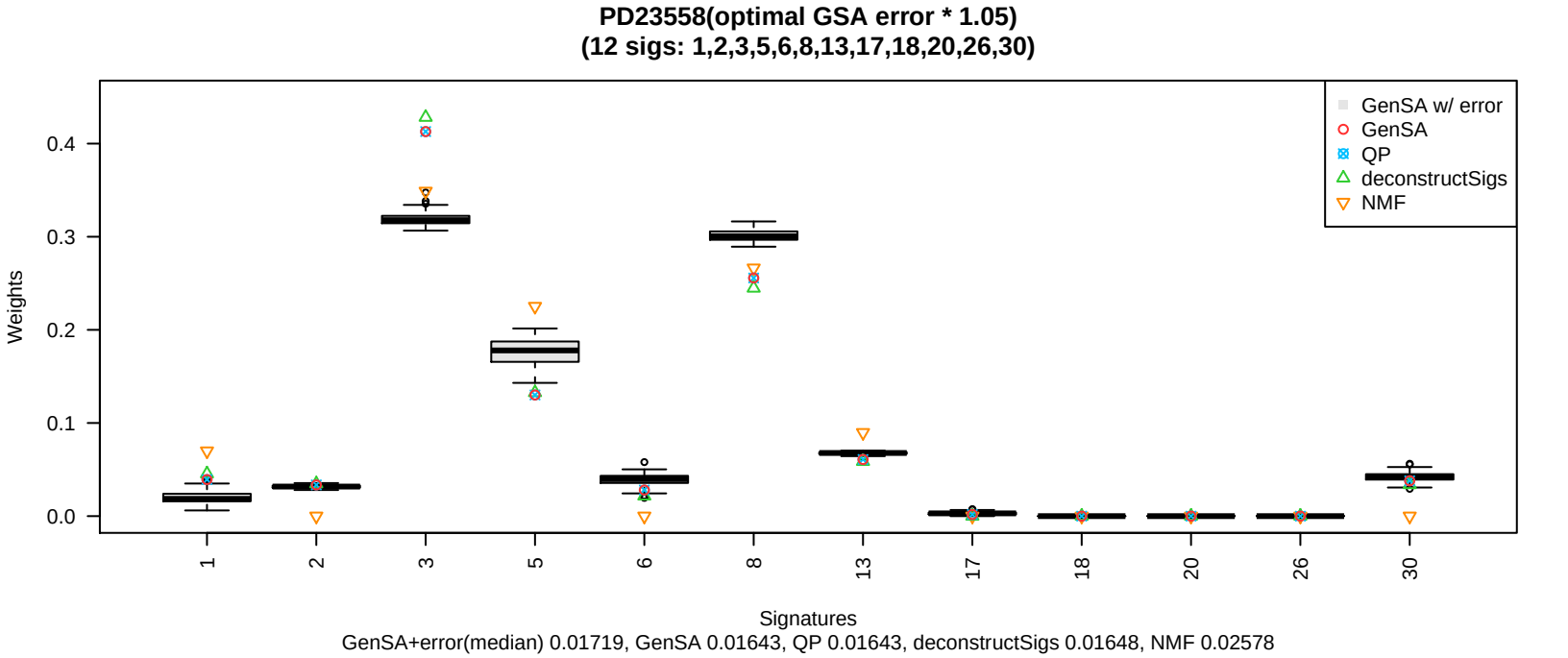

PD22365(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03015, GenSA 0.02911, QP 0.02911, deconstructSigs 0.02914, NMF 0.03198


PD22366(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02056, GenSA 0.01971, QP 0.01971, deconstructSigs 0.01994, NMF 0.02328

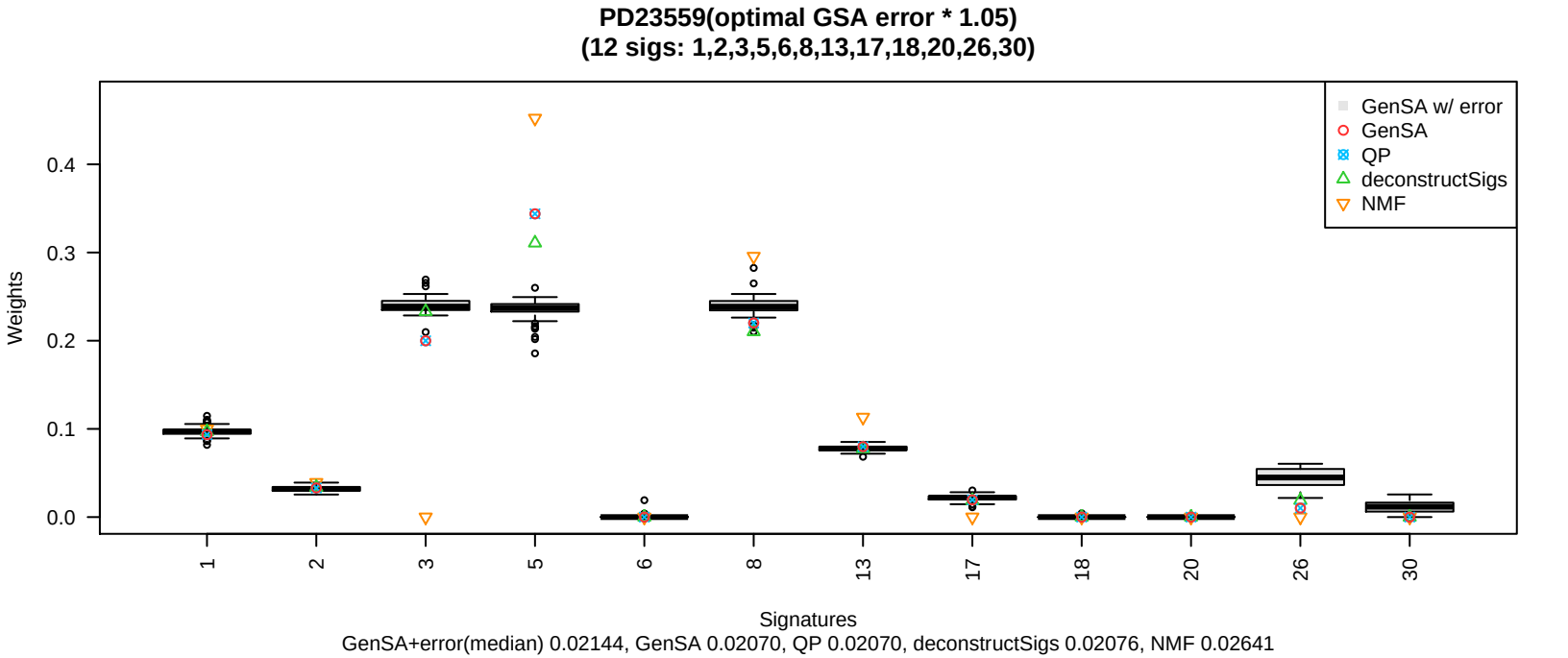

PD23550(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03770, GenSA 0.03606, QP 0.03606, deconstructSigs 0.03622, NMF 0.03925



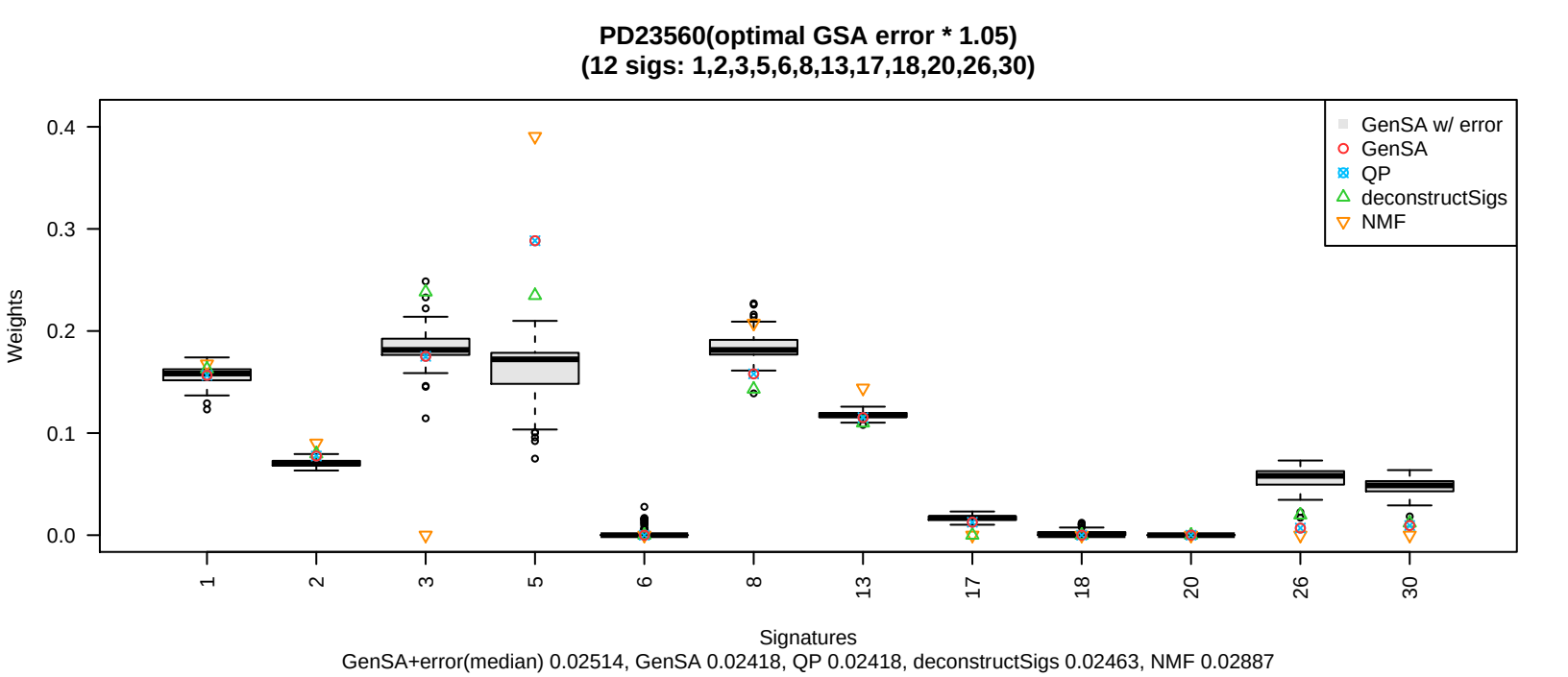
GenSA+error(median) 0.01932, GenSA 0.01849, QP 0.01849, deconstructSigs 0.01860, NMF 0.02174



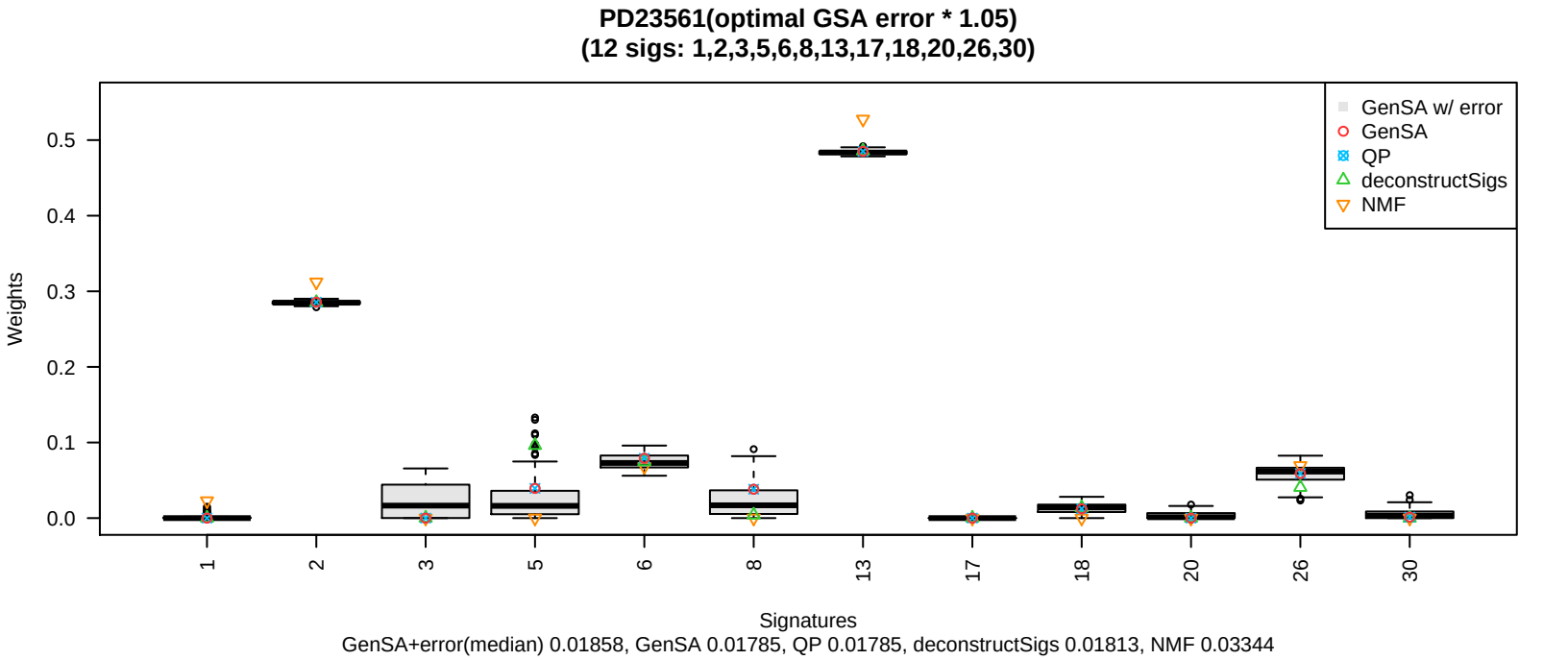
GenSA+error(median) 0.01719, GenSA 0.01643, QP 0.01643, deconstructSigs 0.01648, NMF 0.02578



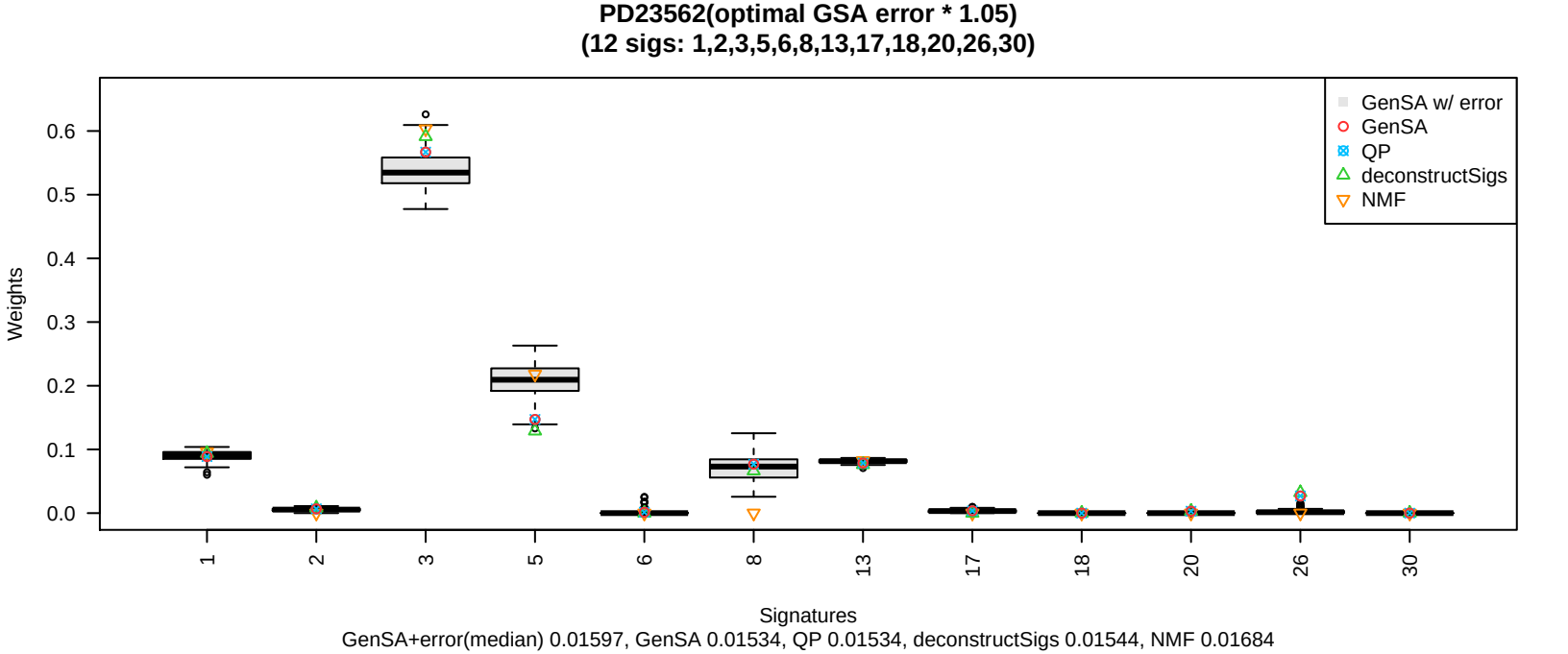
GenSA+error(median) 0.02144, GenSA 0.02070, QP 0.02070, deconstructSigs 0.02076, NMF 0.02641



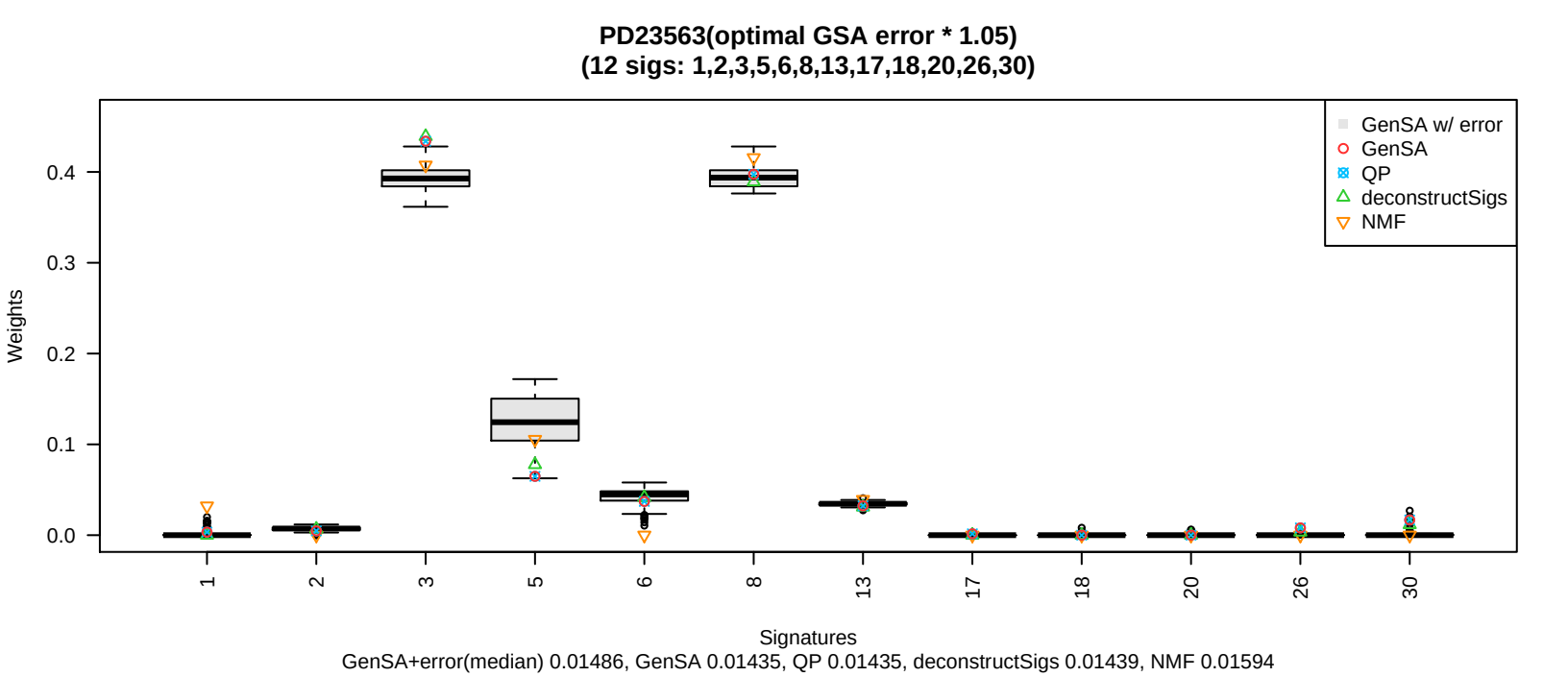
GenSA+error(median) 0.02514, GenSA 0.02418, QP 0.02418, deconstructSigs 0.02463, NMF 0.02887



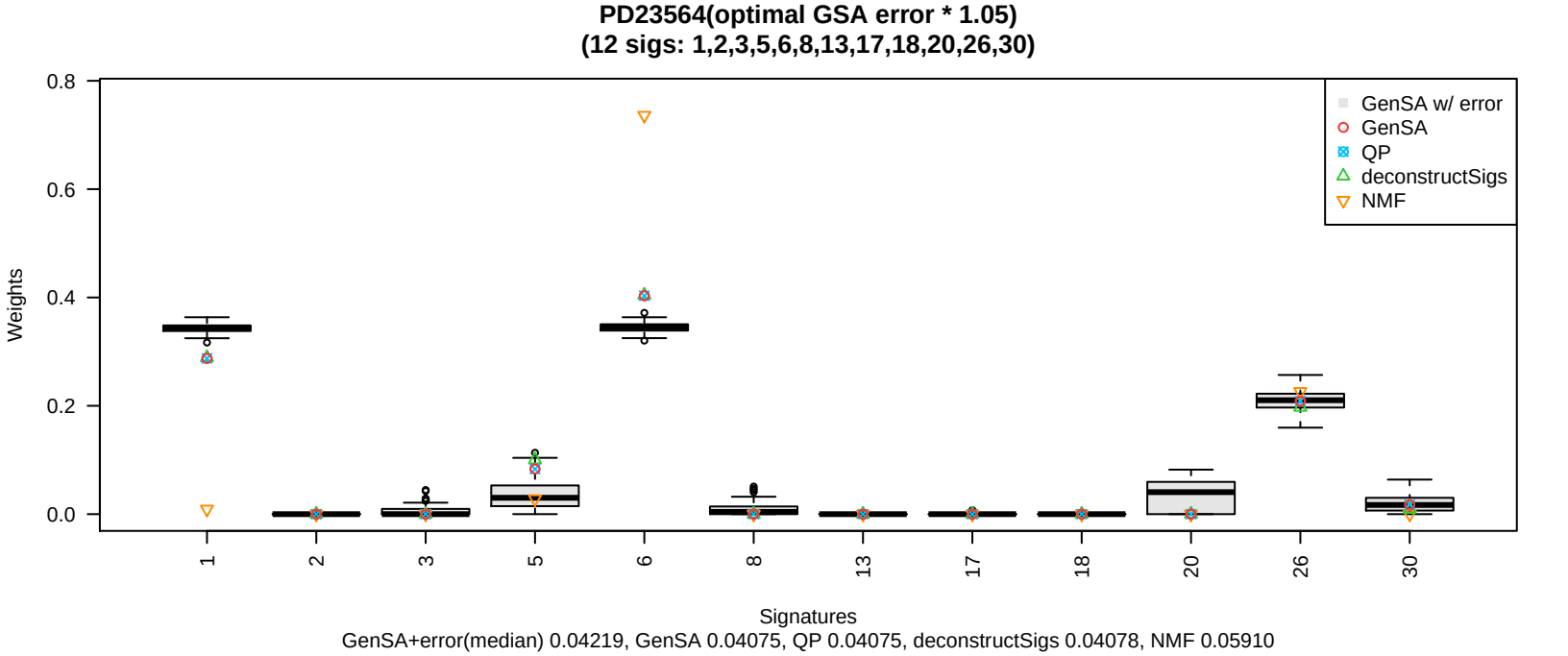
GenSA+error(median) 0.01858, GenSA 0.01785, QP 0.01785, deconstructSigs 0.01813, NMF 0.03344



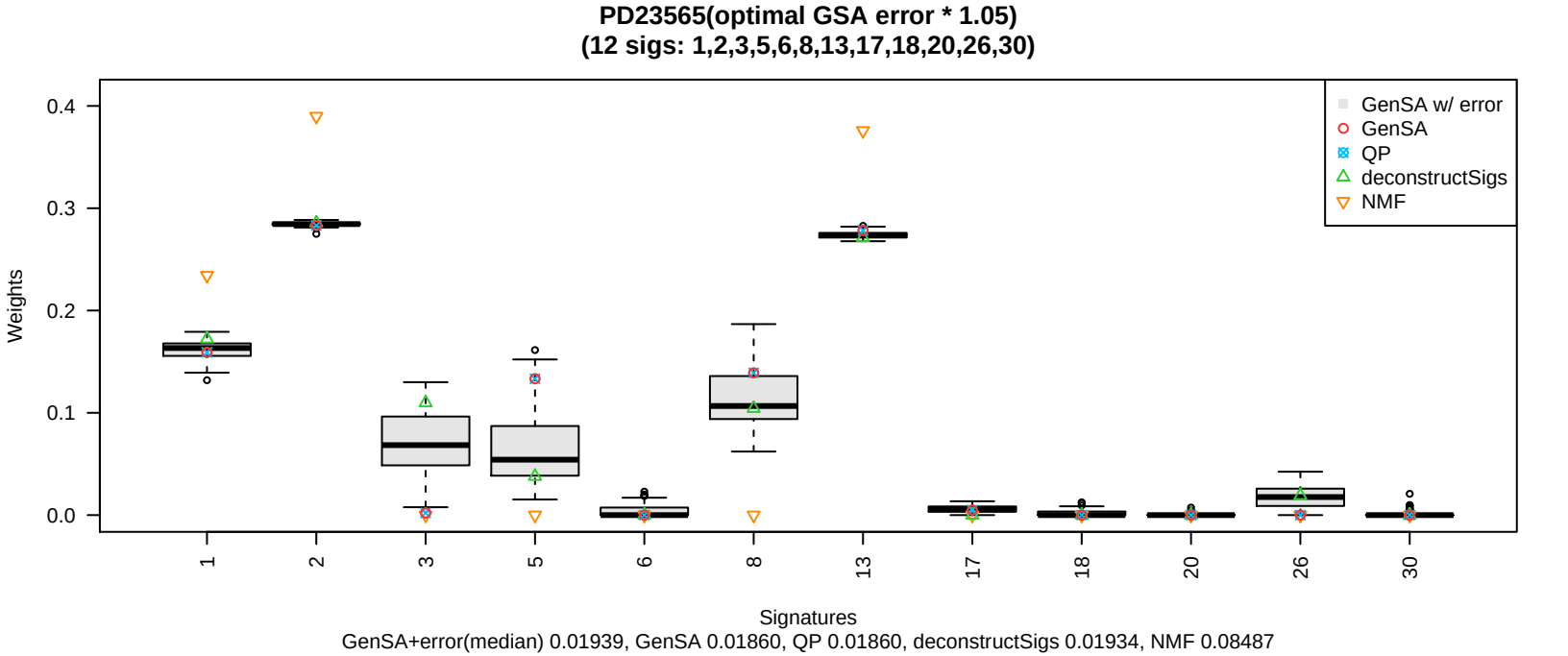
GenSA+error(median) 0.01597, GenSA 0.01534, QP 0.01534, deconstructSigs 0.01544, NMF 0.01684



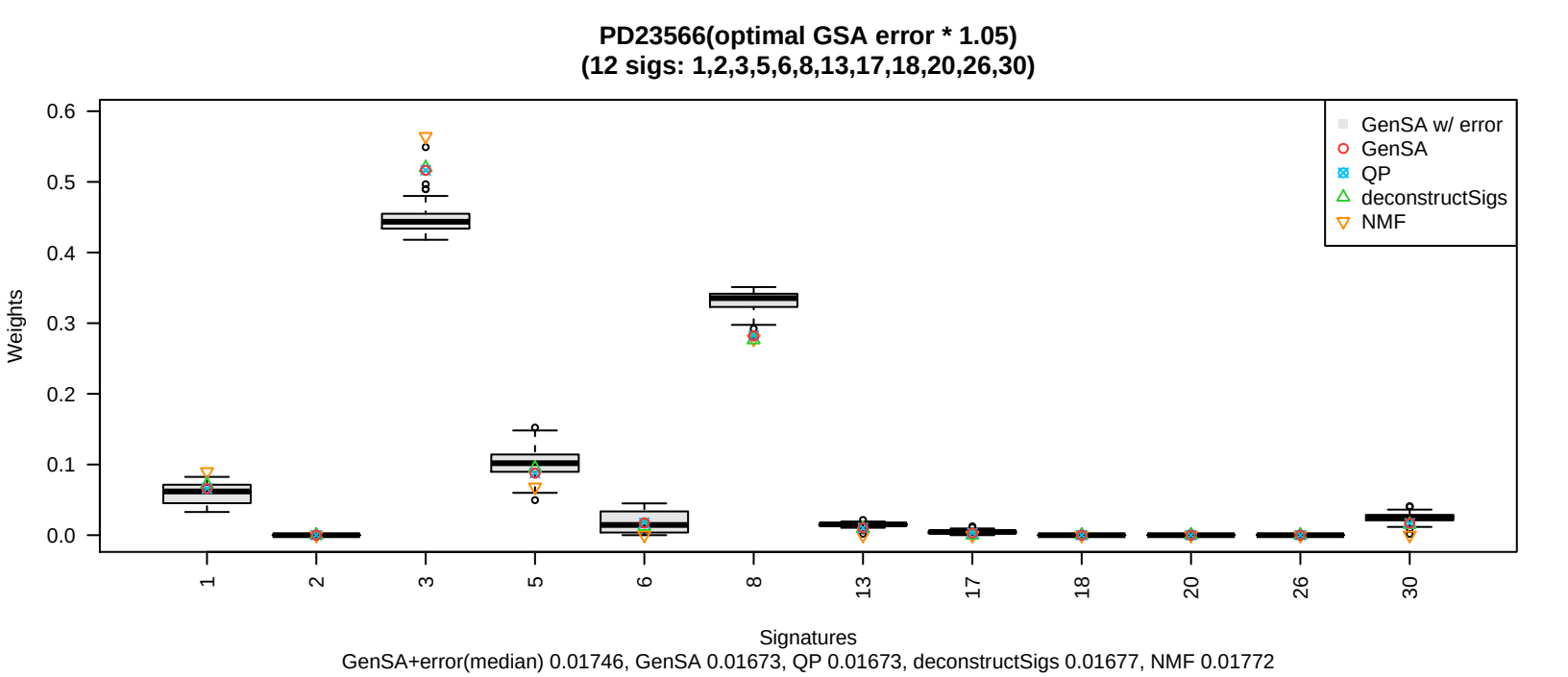
GenSA+error(median) 0.01486, GenSA 0.01435, QP 0.01435, deconstructSigs 0.01439, NMF 0.01594

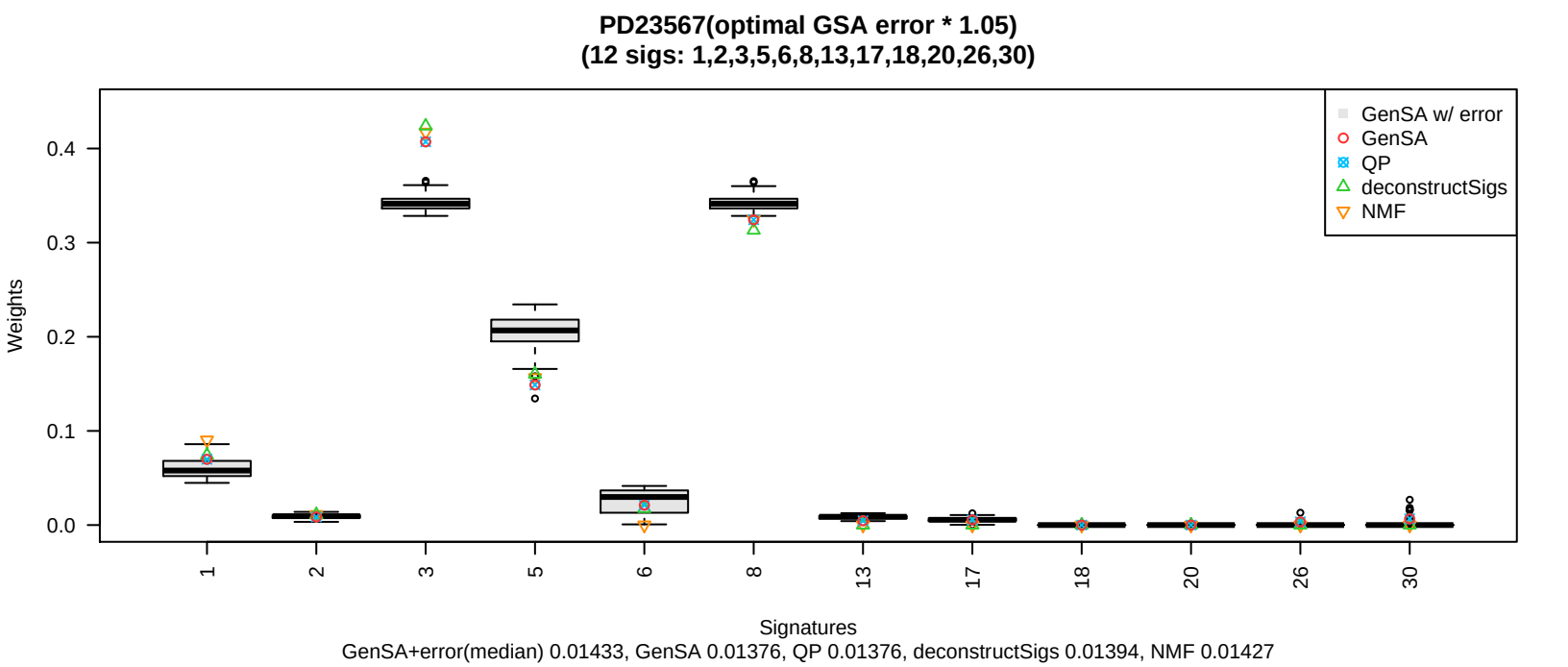


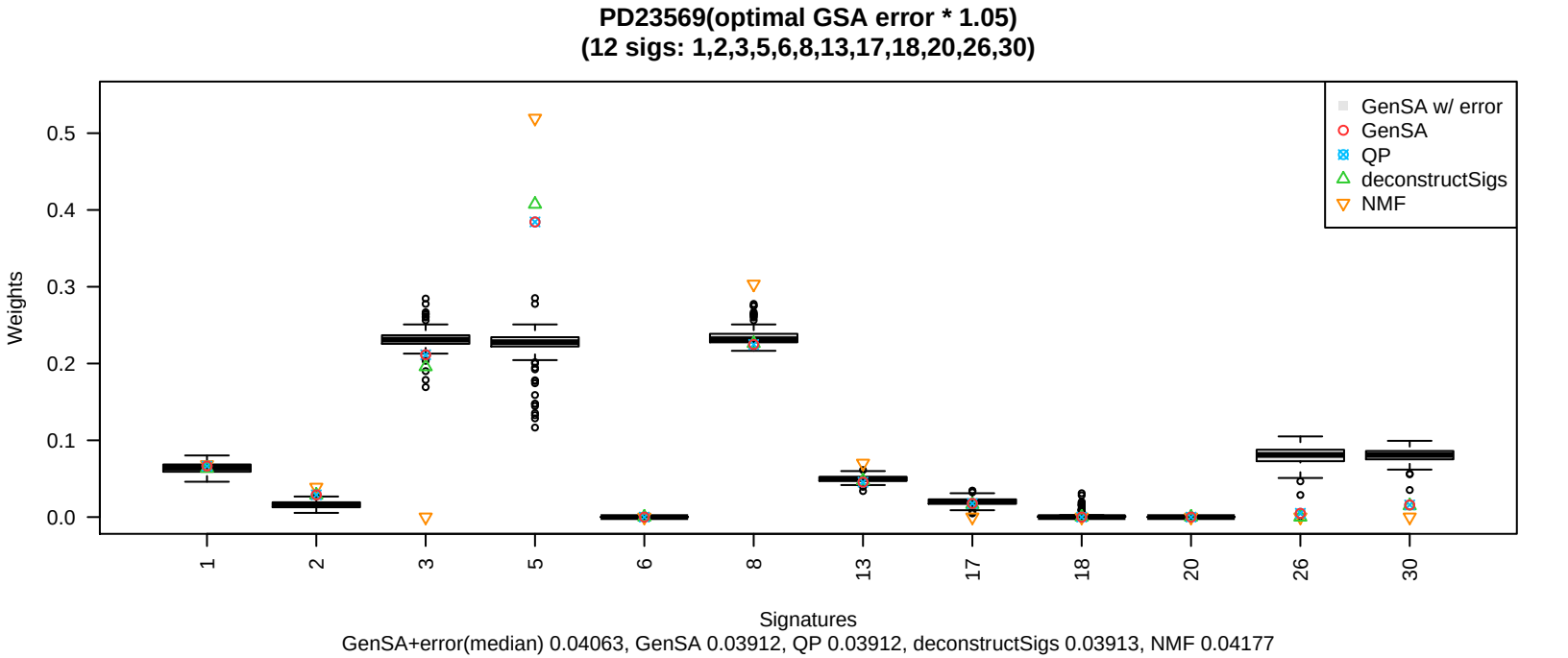
GenSA+error(median) 0.04219, GenSA 0.04075, QP 0.04075, deconstructSigs 0.04078, NMF 0.05910

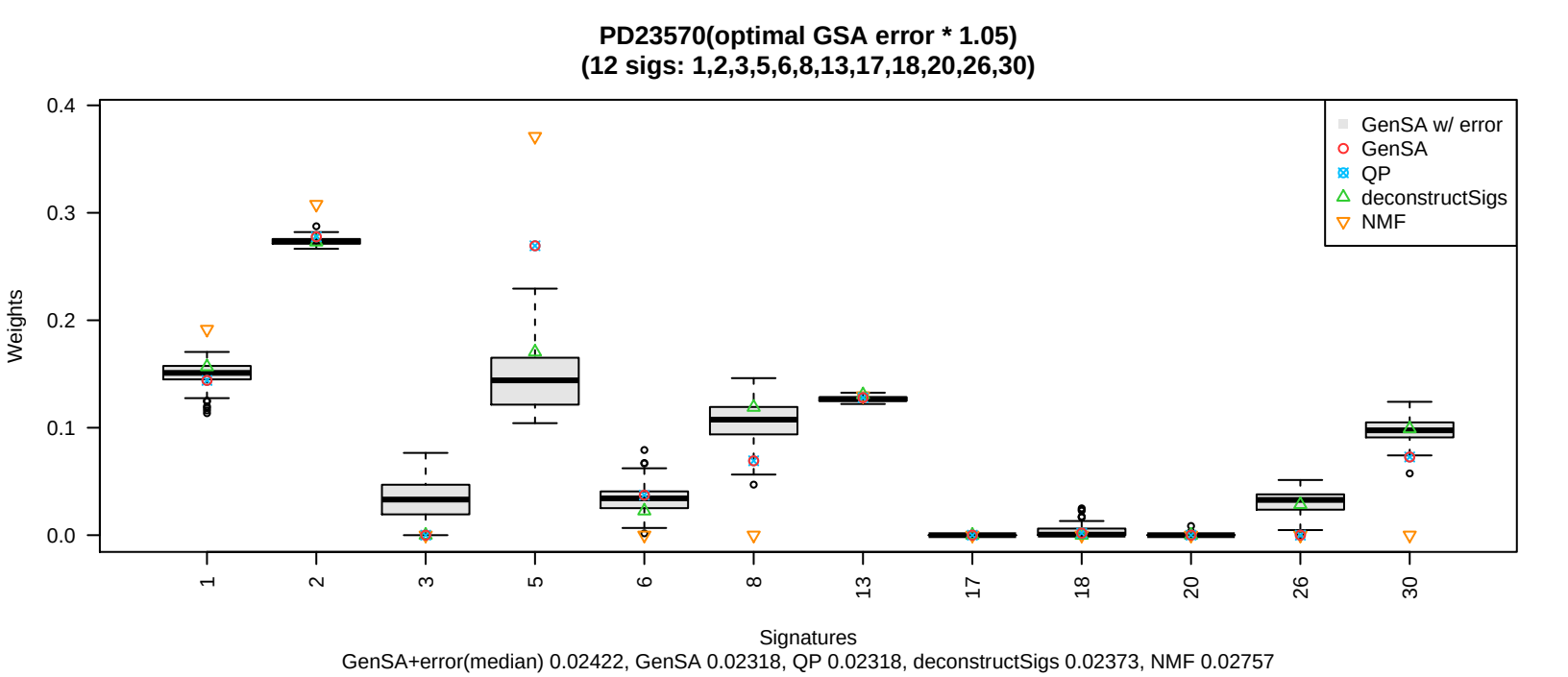


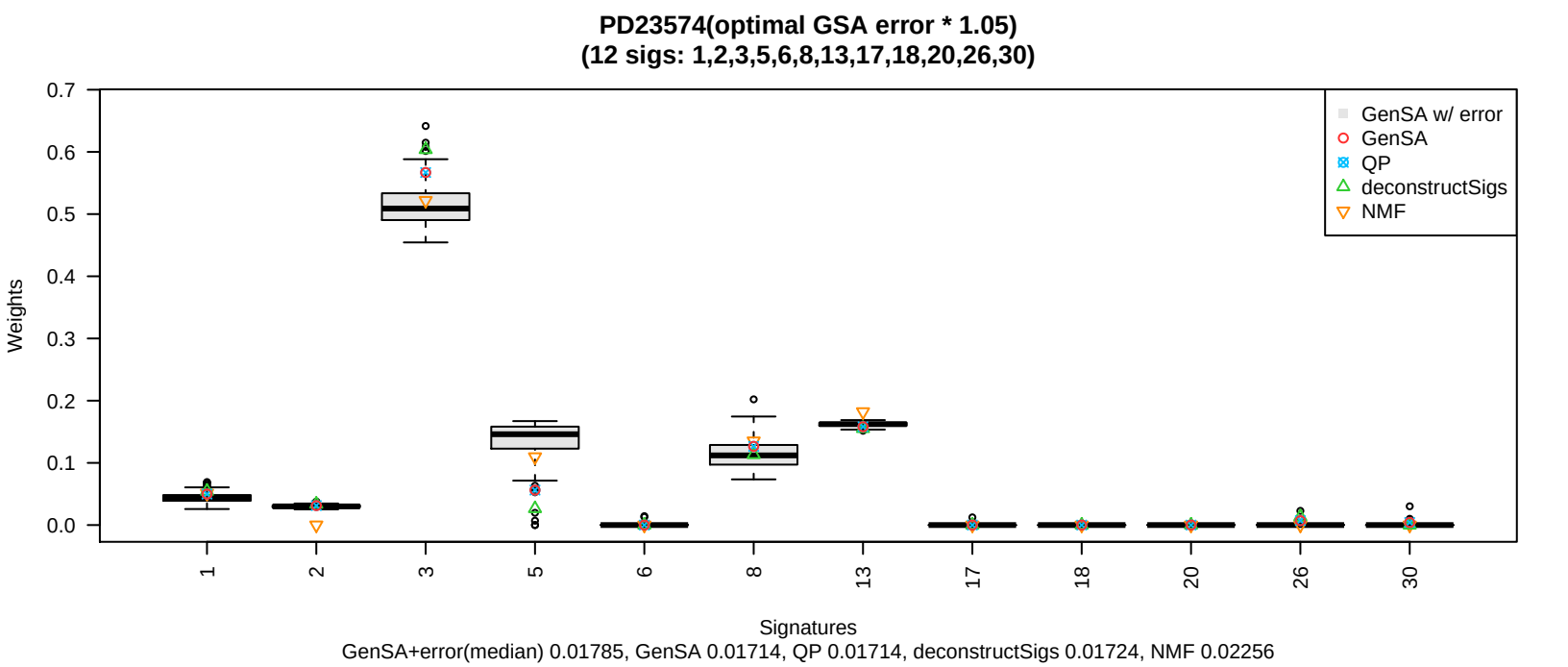
GenSA+error(median) 0.01939, GenSA 0.01860, QP 0.01860, deconstructSigs 0.01934, NMF 0.08487

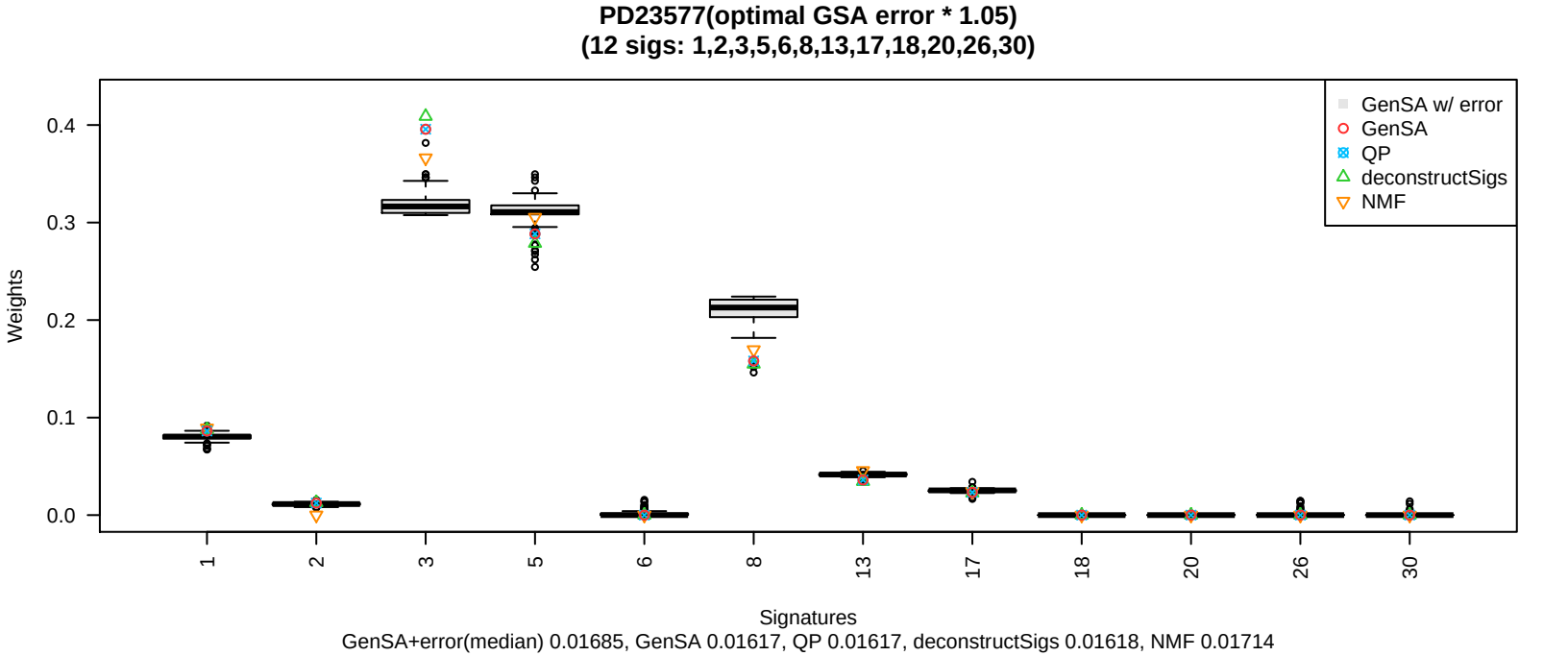

PD23566(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01746, GenSA 0.01673, QP 0.01673, deconstructSigs 0.01677, NMF 0.01772

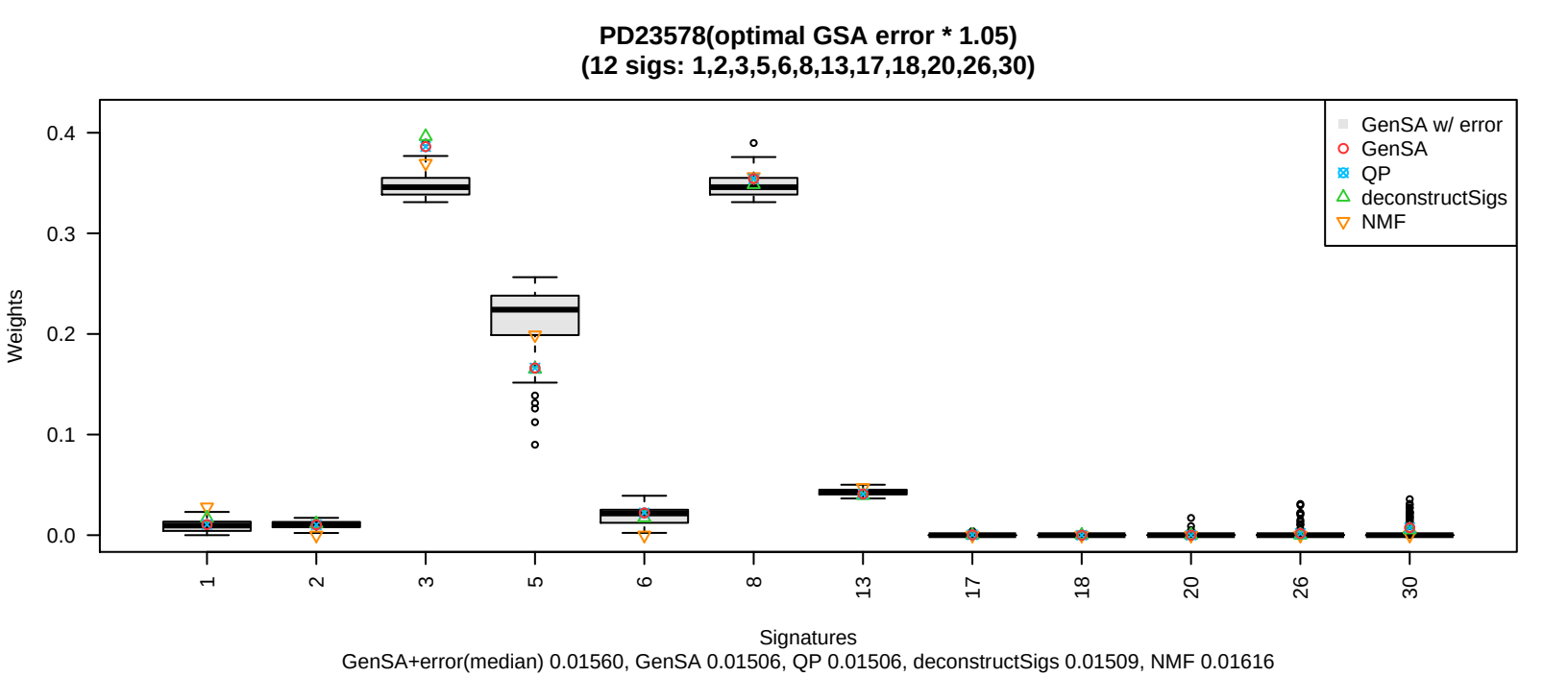

PD23567(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01433, GenSA 0.01376, QP 0.01376, deconstructSigs 0.01394, NMF 0.01427


PD23569(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.04063, GenSA 0.03912, QP 0.03912, deconstructSigs 0.03913, NMF 0.04177

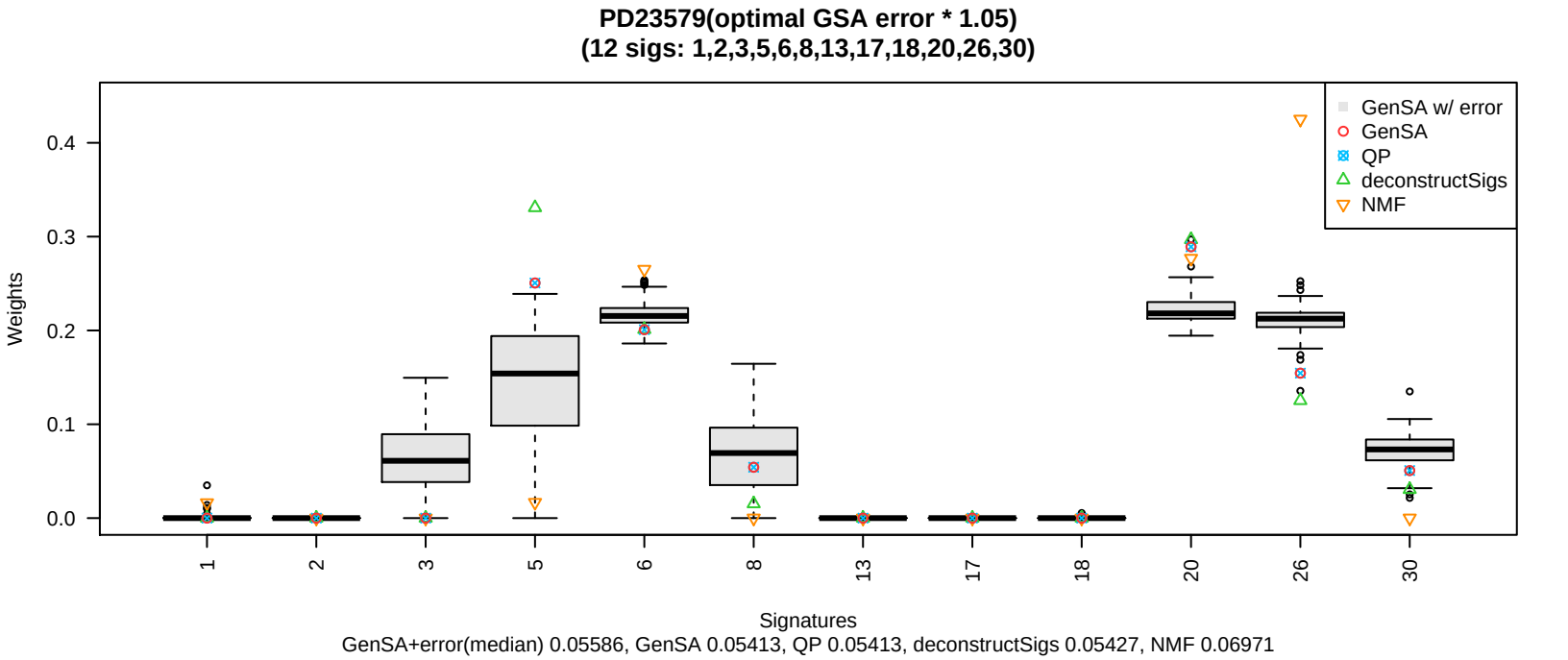

PD23570(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02422, GenSA 0.02318, QP 0.02318, deconstructSigs 0.02373, NMF 0.02757


PD23574(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01785, GenSA 0.01714, QP 0.01714, deconstructSigs 0.01724, NMF 0.02256

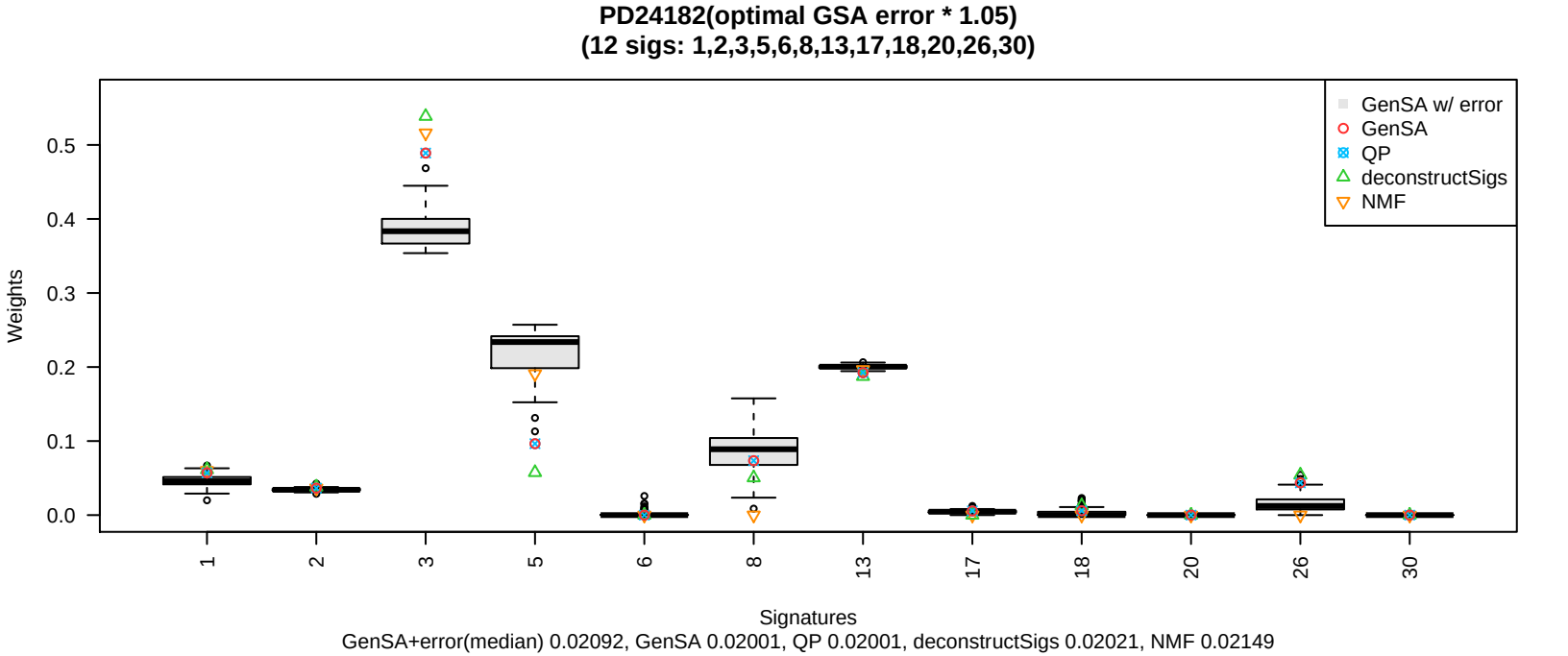

PD23577(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01685, GenSA 0.01617, QP 0.01617, deconstructSigs 0.01618, NMF 0.01714



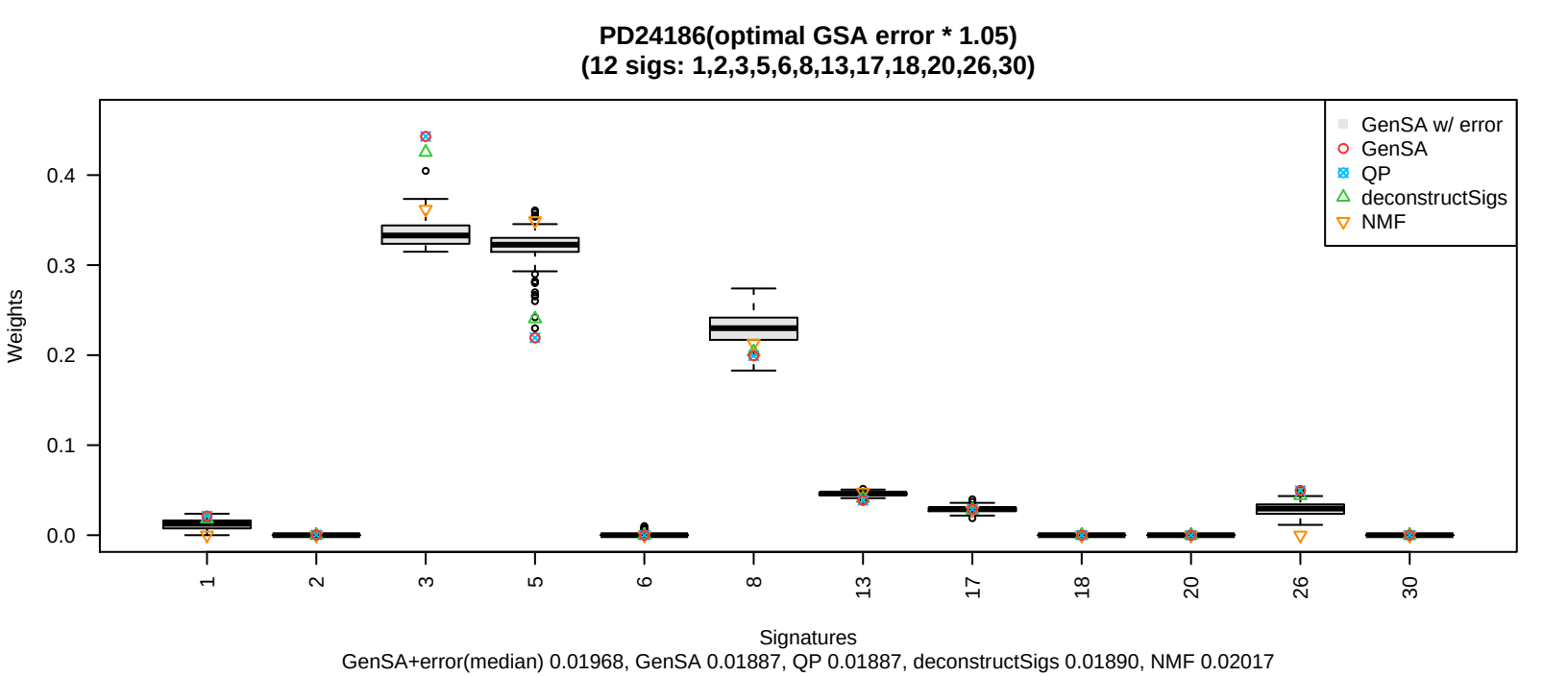
GenSA+error(median) 0.01560, GenSA 0.01506, QP 0.01506, deconstructSigs 0.01509, NMF 0.01616



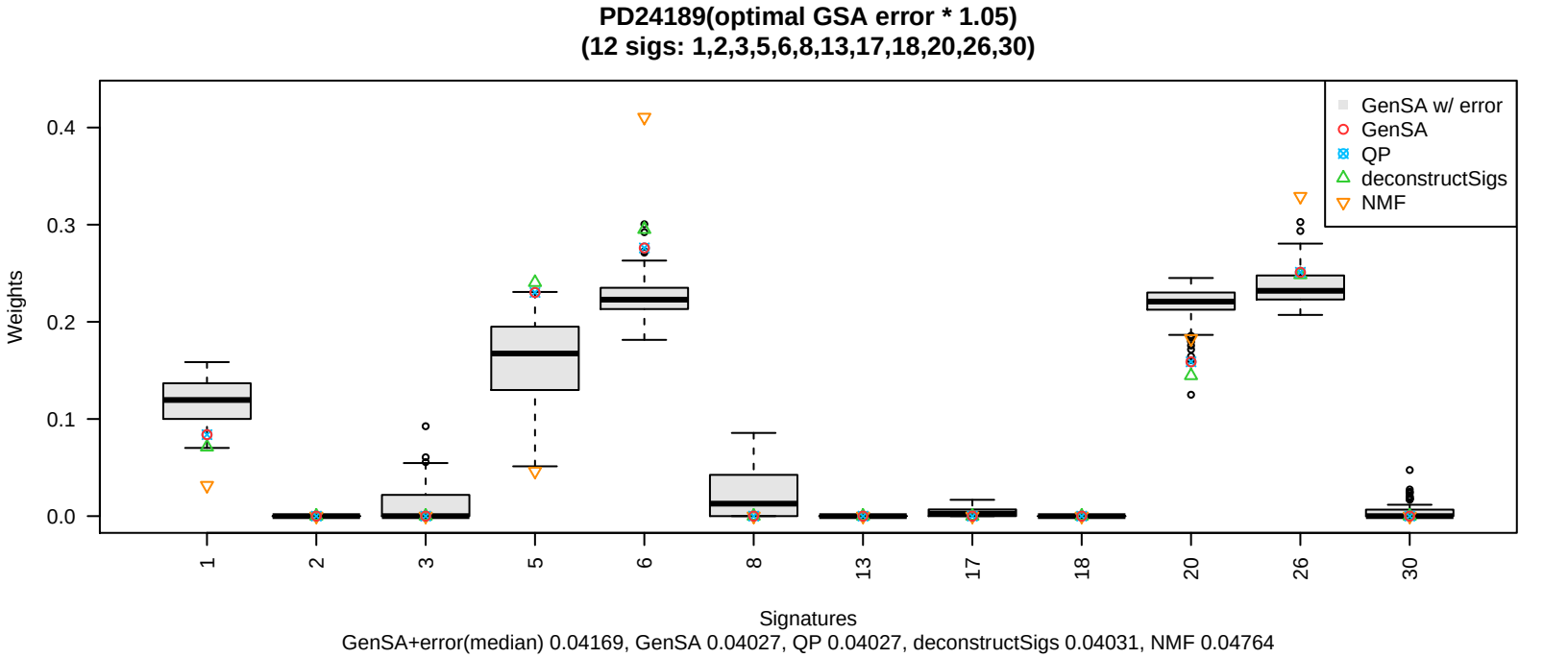
GenSA+error(median) 0.05586, GenSA 0.05413, QP 0.05413, deconstructSigs 0.05427, NMF 0.06971



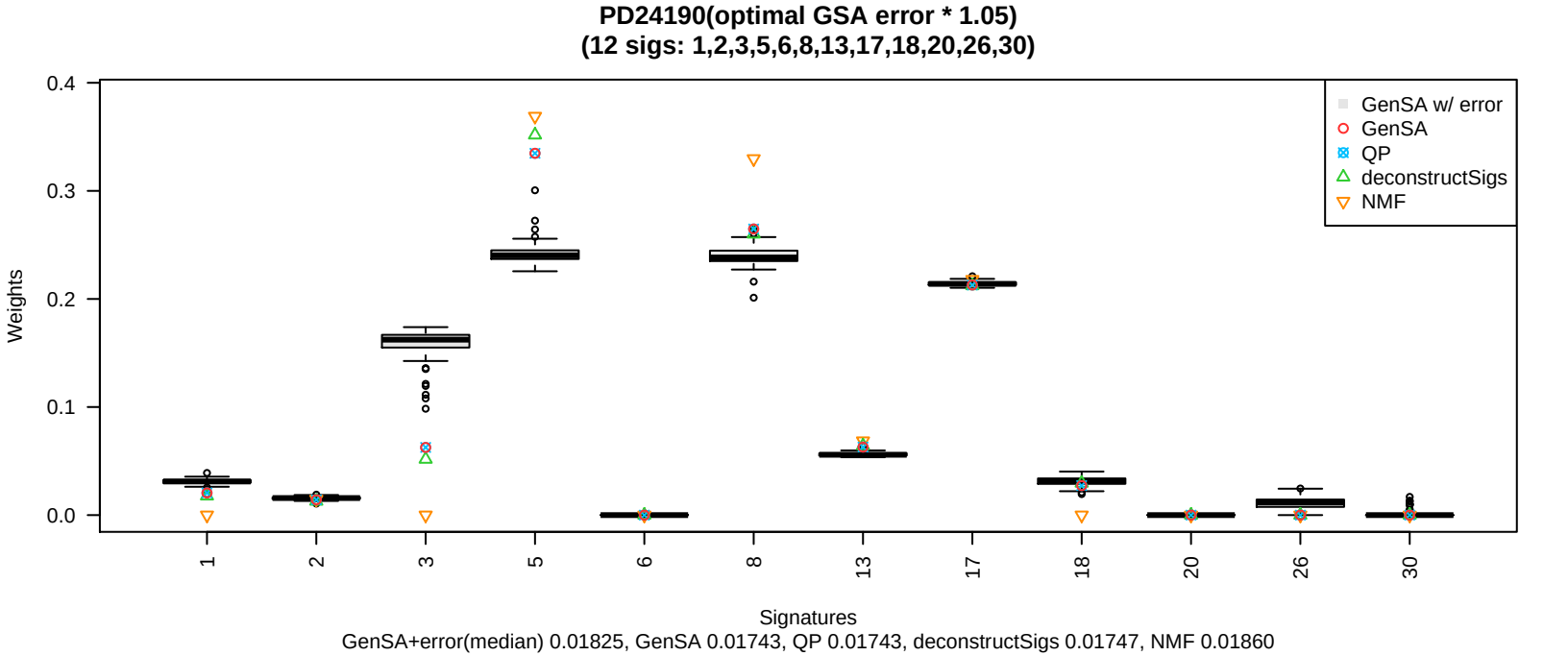
GenSA+error(median) 0.02092, GenSA 0.02001, QP 0.02001, deconstructSigs 0.02021, NMF 0.02149



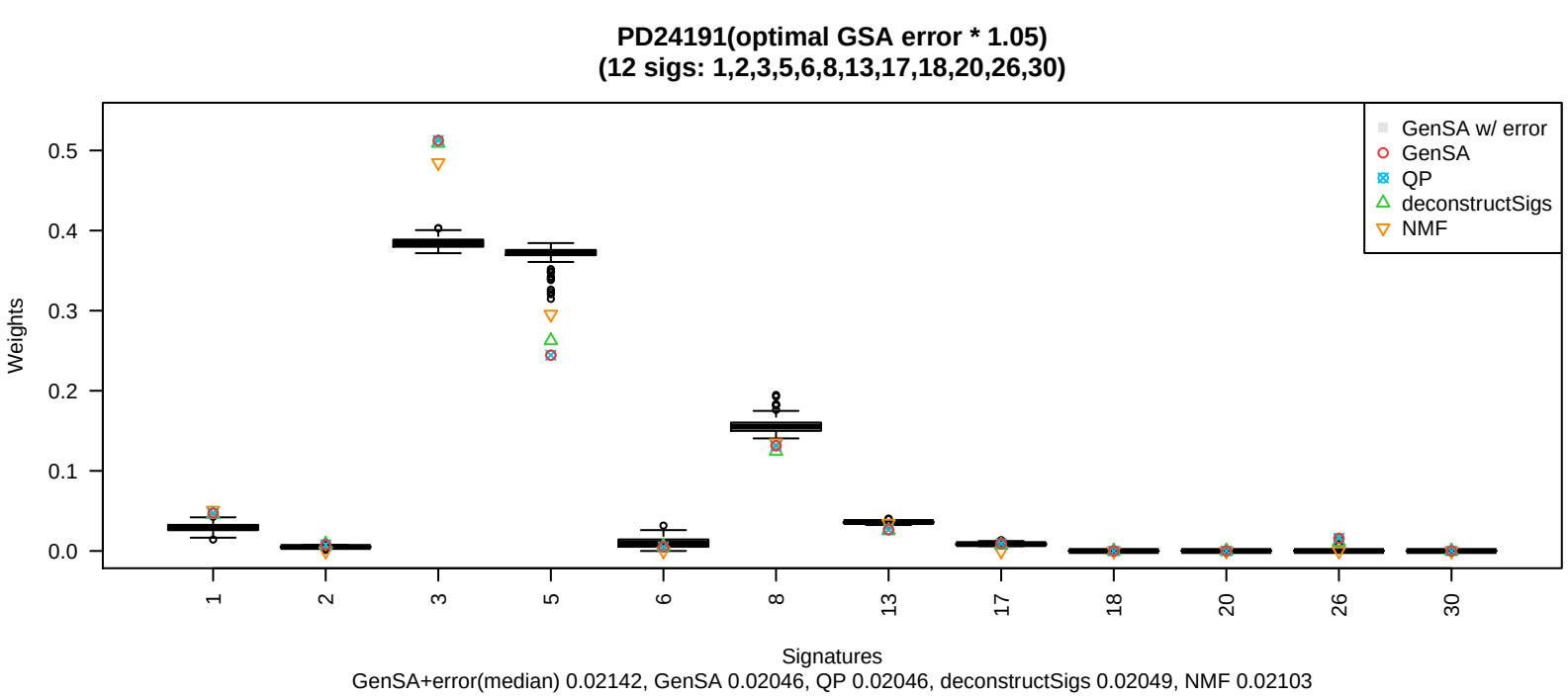
GenSA+error(median) 0.01968, GenSA 0.01887, QP 0.01887, deconstructSigs 0.01890, NMF 0.02017



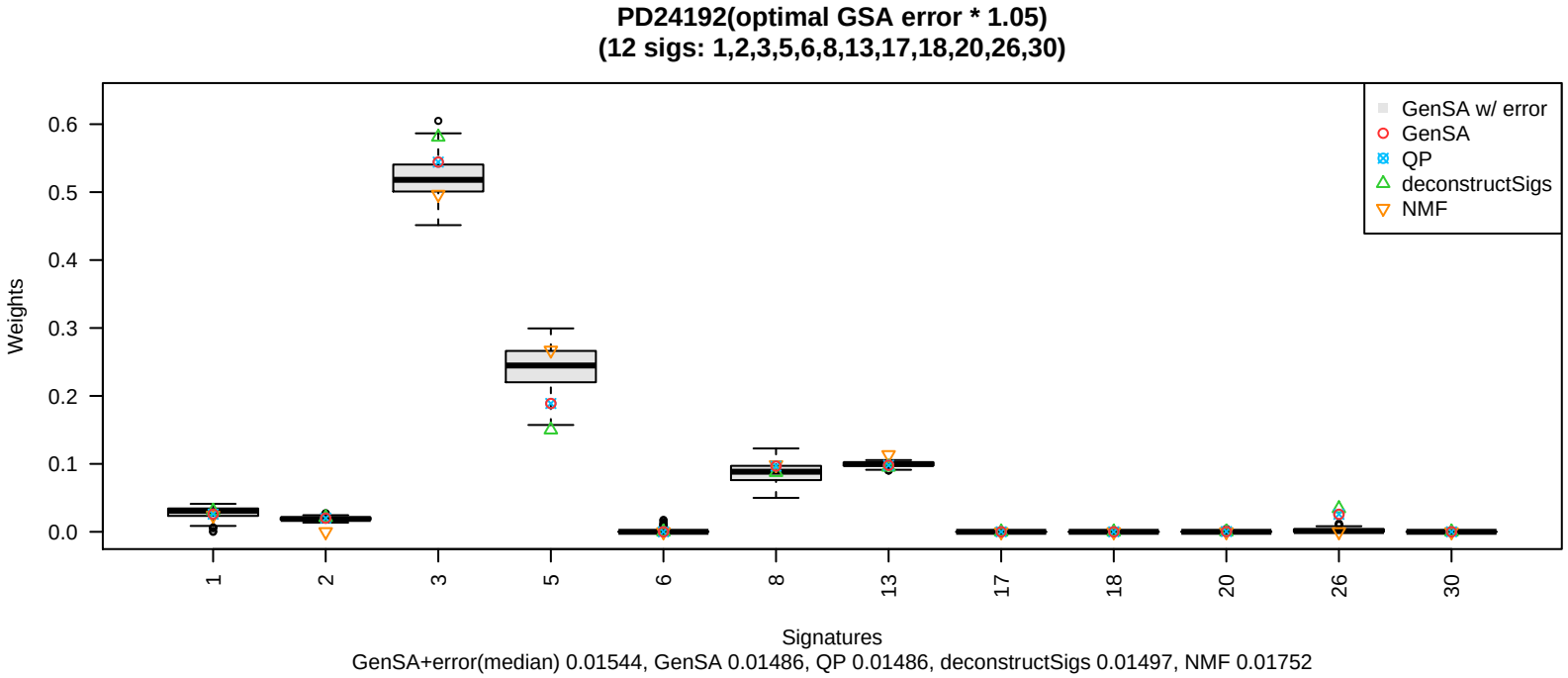
GenSA+error(median) 0.04169, GenSA 0.04027, QP 0.04027, deconstructSigs 0.04031, NMF 0.04764



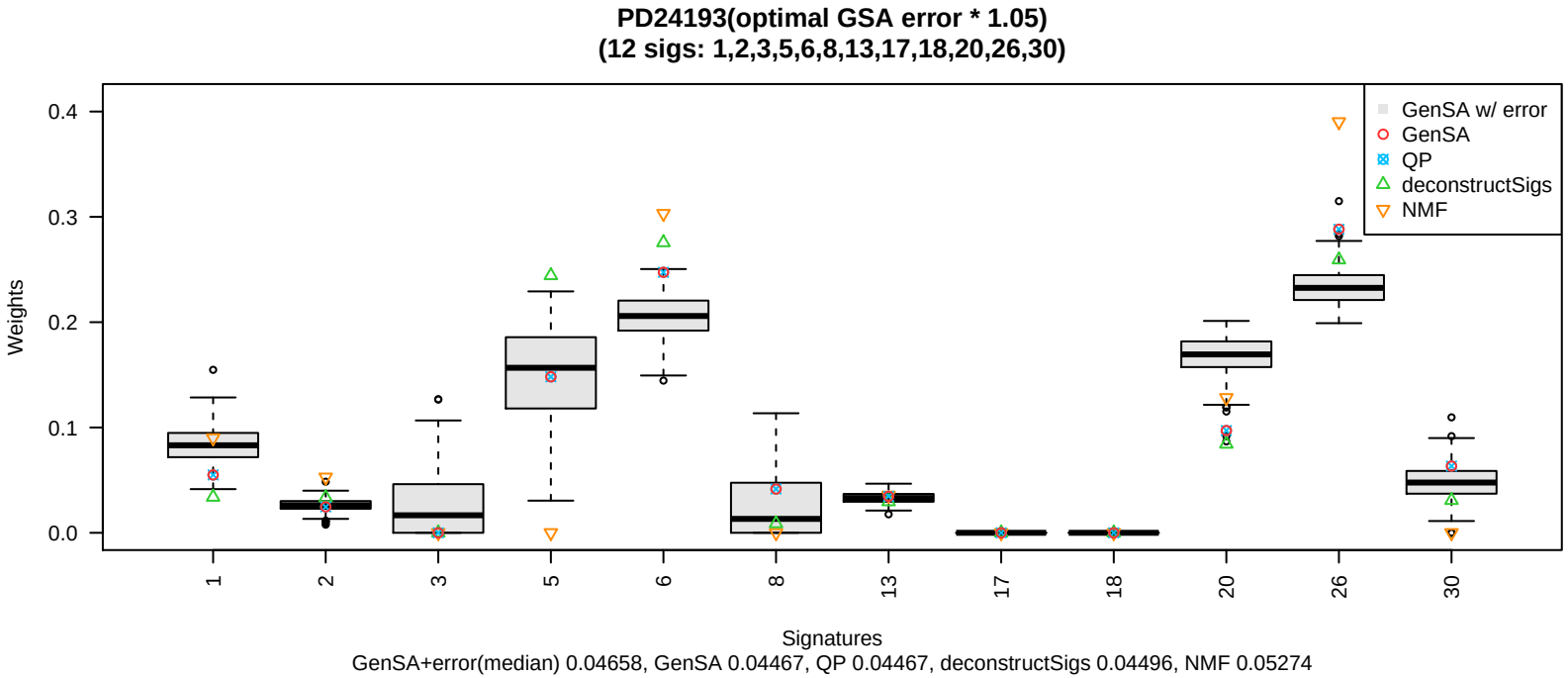
GenSA+error(median) 0.01825, GenSA 0.01743, QP 0.01743, deconstructSigs 0.01747, NMF 0.01860



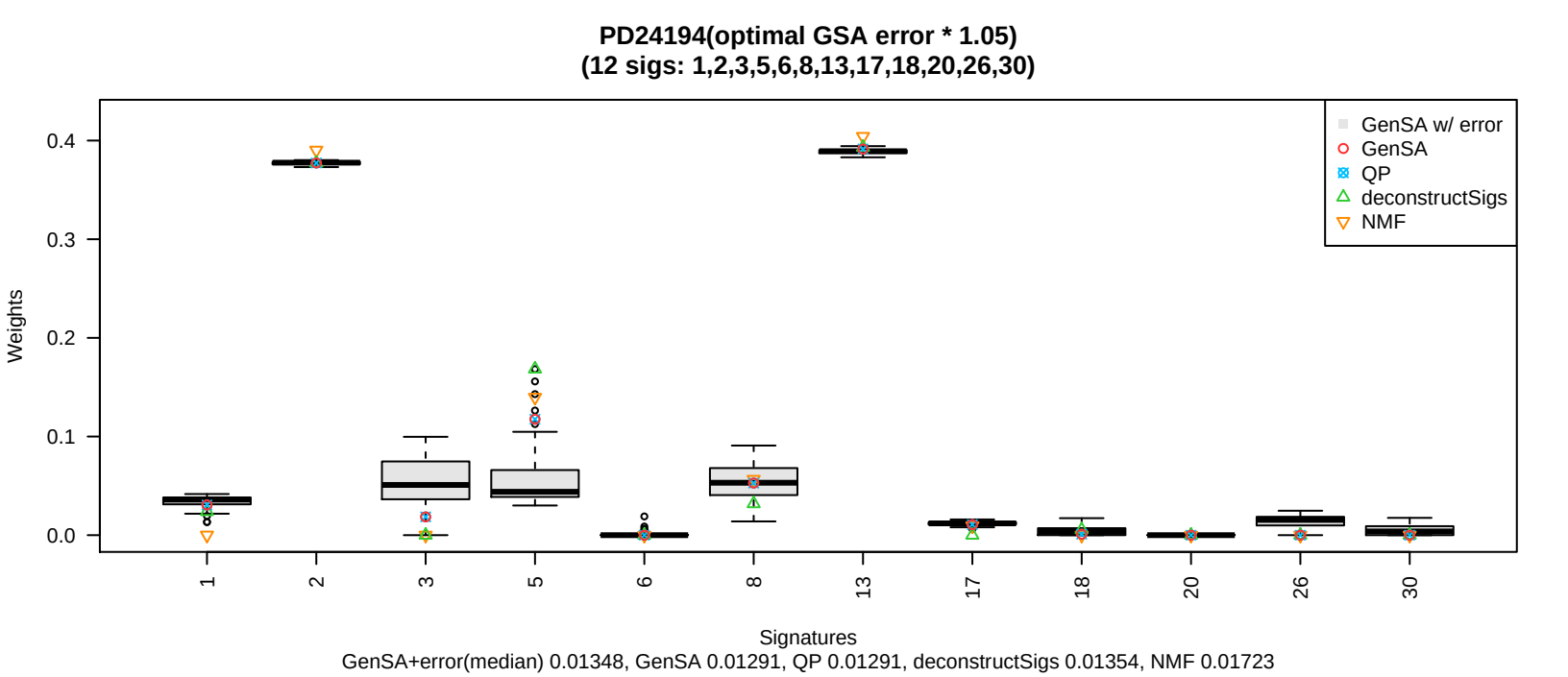
GenSA+error(median) 0.02142, GenSA 0.02046, QP 0.02046, deconstructSigs 0.02049, NMF 0.02103



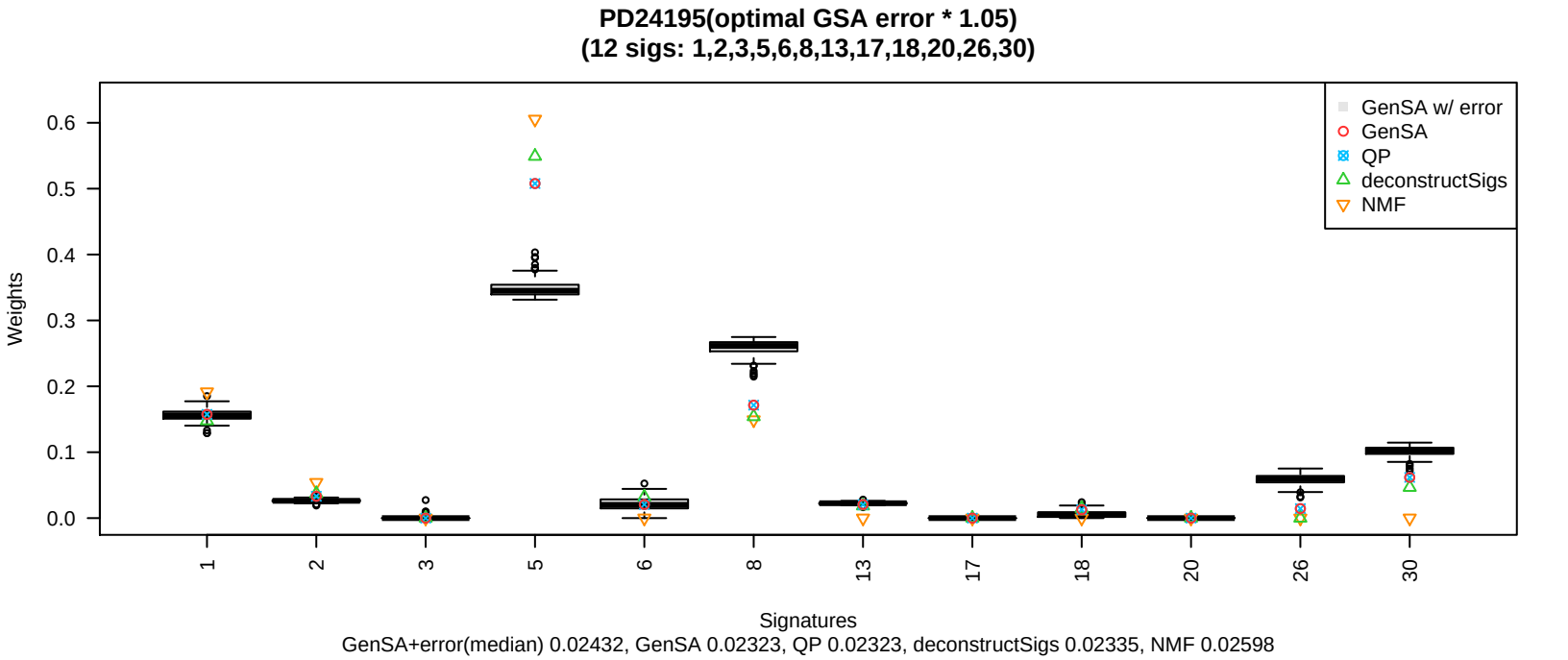
GenSA+error(median) 0.01544, GenSA 0.01486, QP 0.01486, deconstructSigs 0.01497, NMF 0.01752



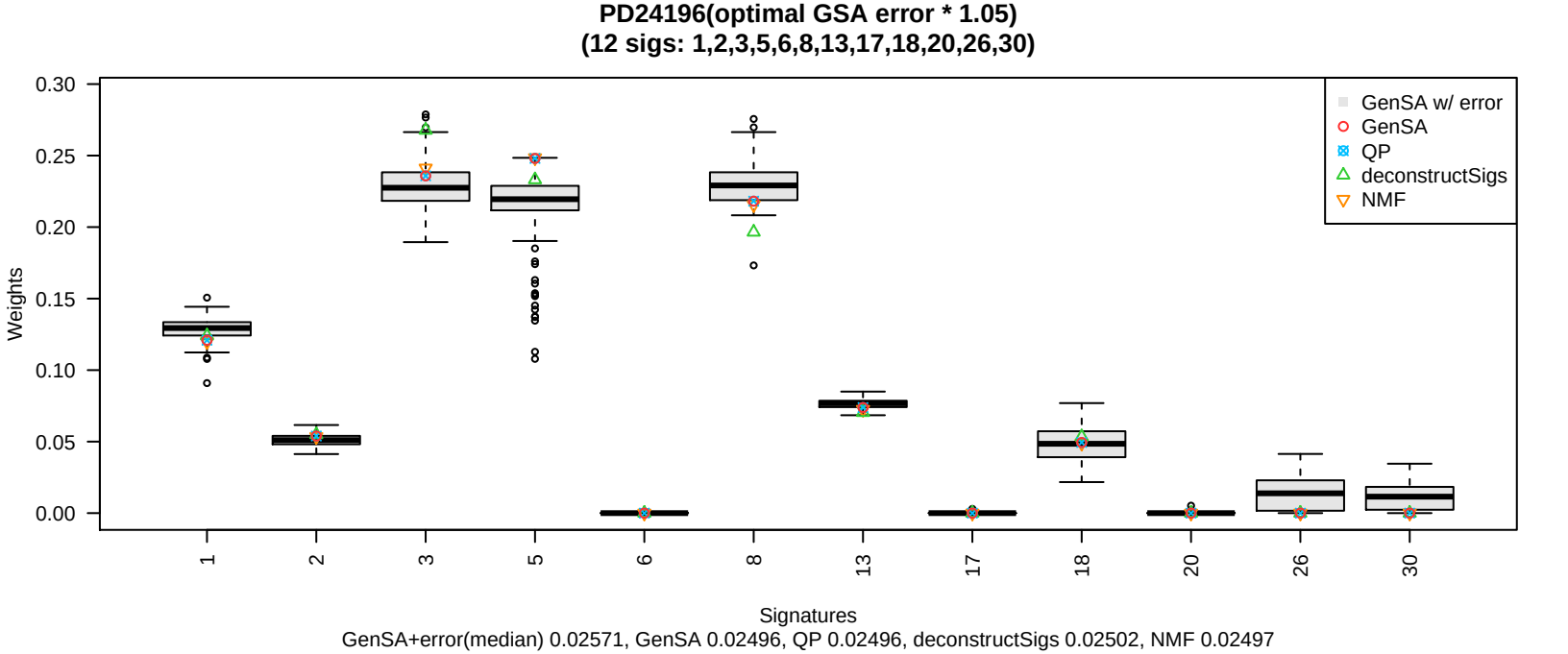
GenSA+error(median) 0.04658, GenSA 0.04467, QP 0.04467, deconstructSigs 0.04496, NMF 0.05274



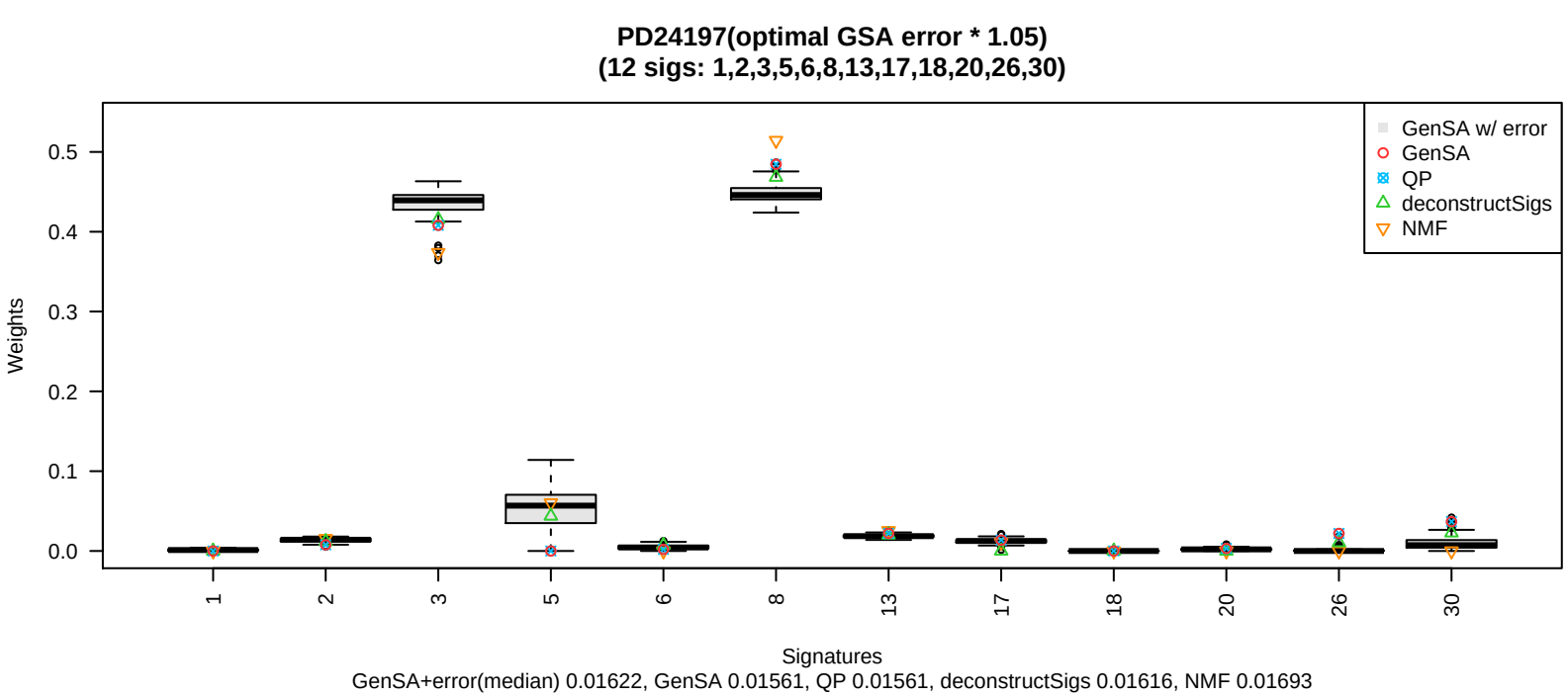
GenSA+error(median) 0.01348, GenSA 0.01291, QP 0.01291, deconstructSigs 0.01354, NMF 0.01723



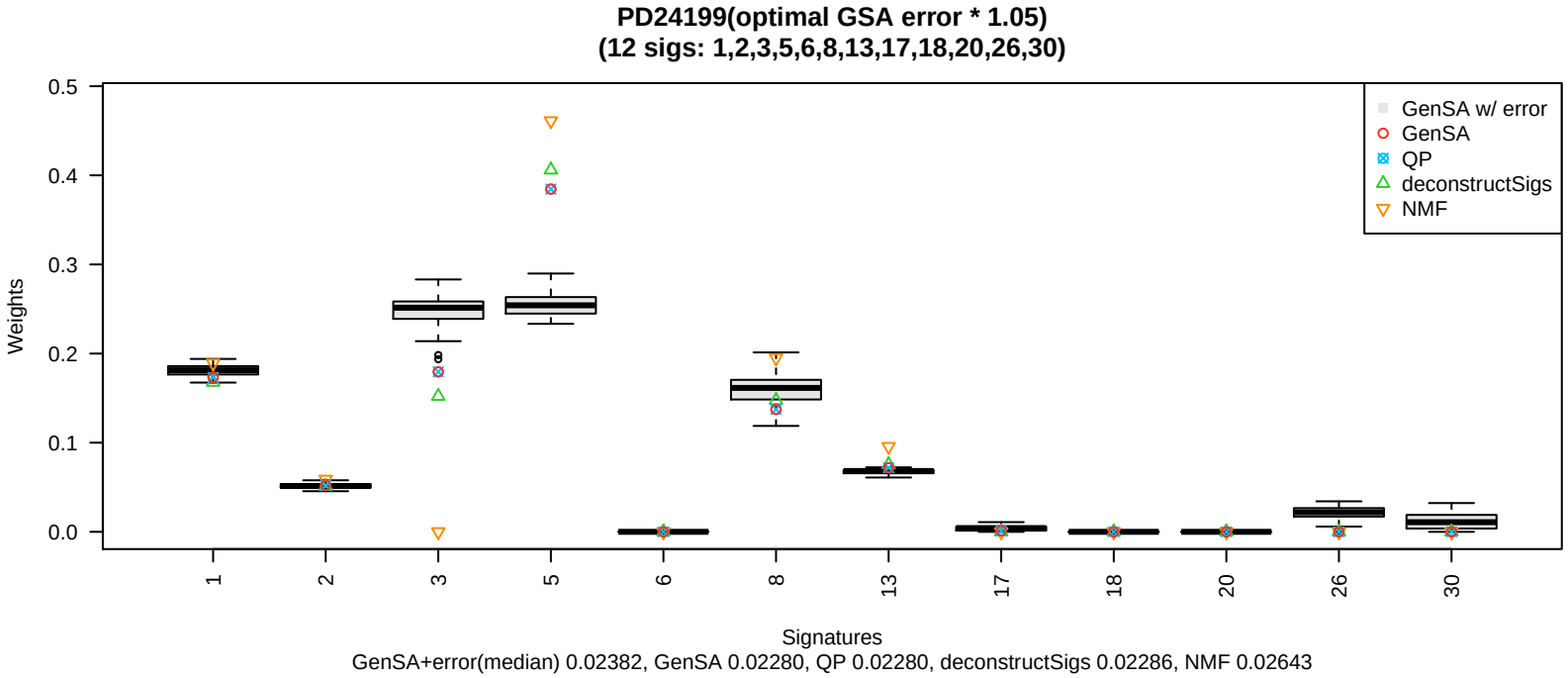
GenSA+error(median) 0.02432, GenSA 0.02323, QP 0.02323, deconstructSigs 0.02335, NMF 0.02598



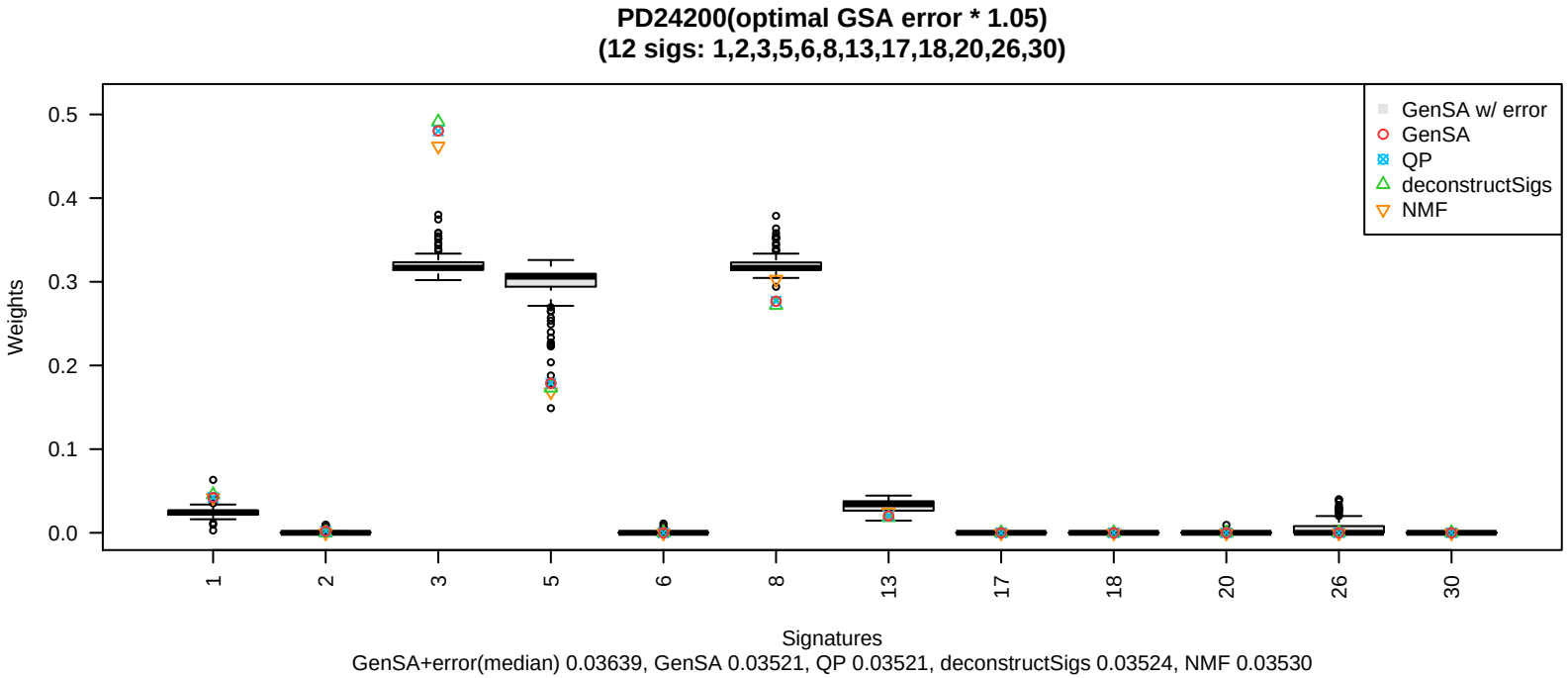
GenSA+error(median) 0.02571, GenSA 0.02496, QP 0.02496, deconstructSigs 0.02502, NMF 0.02497



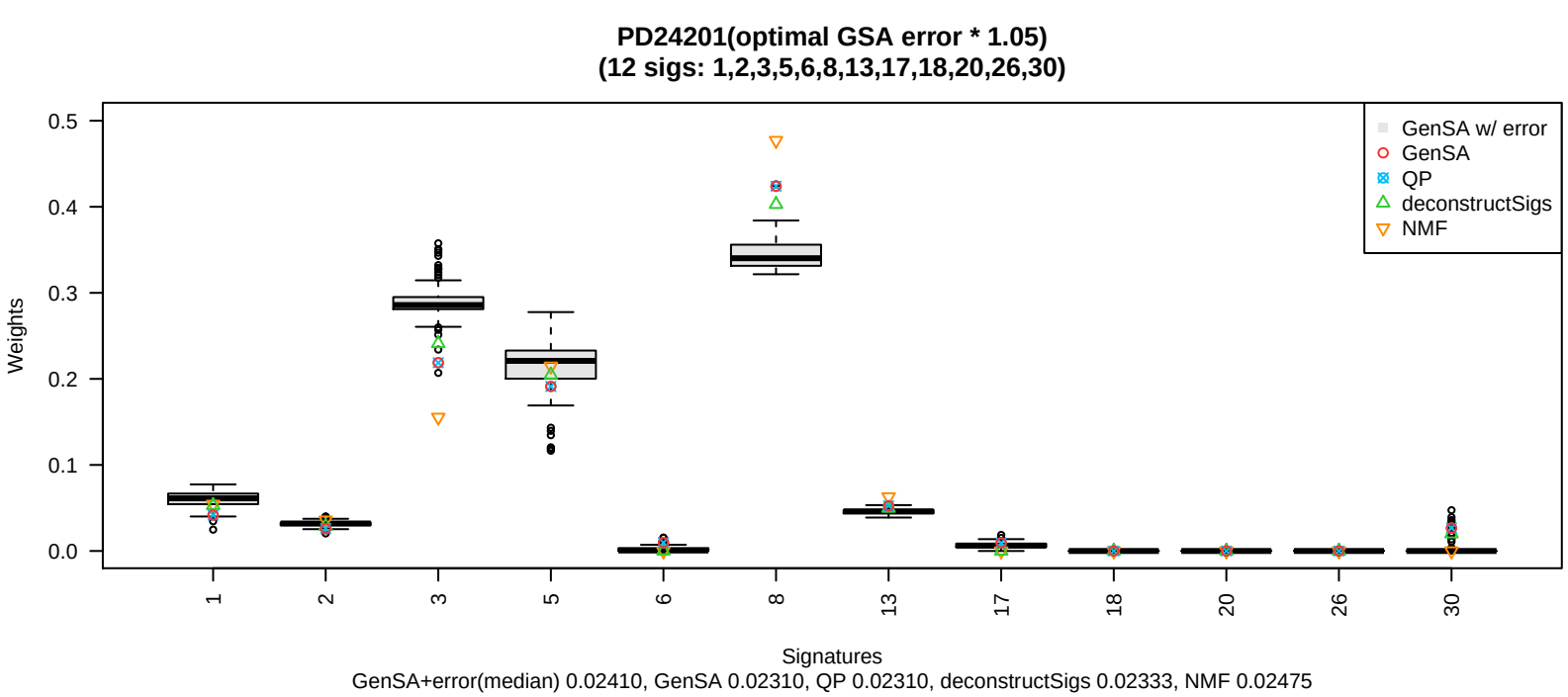
GenSA+error(median) 0.01622, GenSA 0.01561, QP 0.01561, deconstructSigs 0.01616, NMF 0.01693

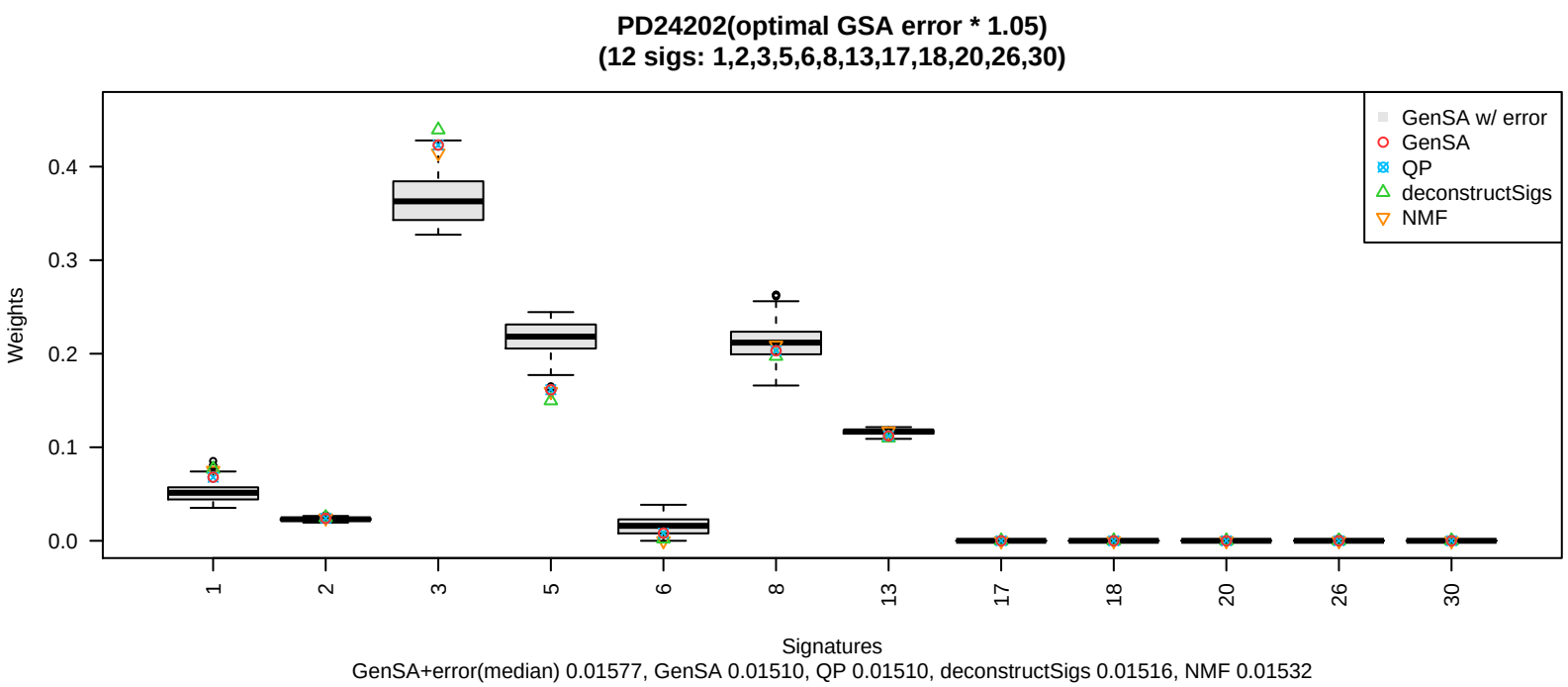


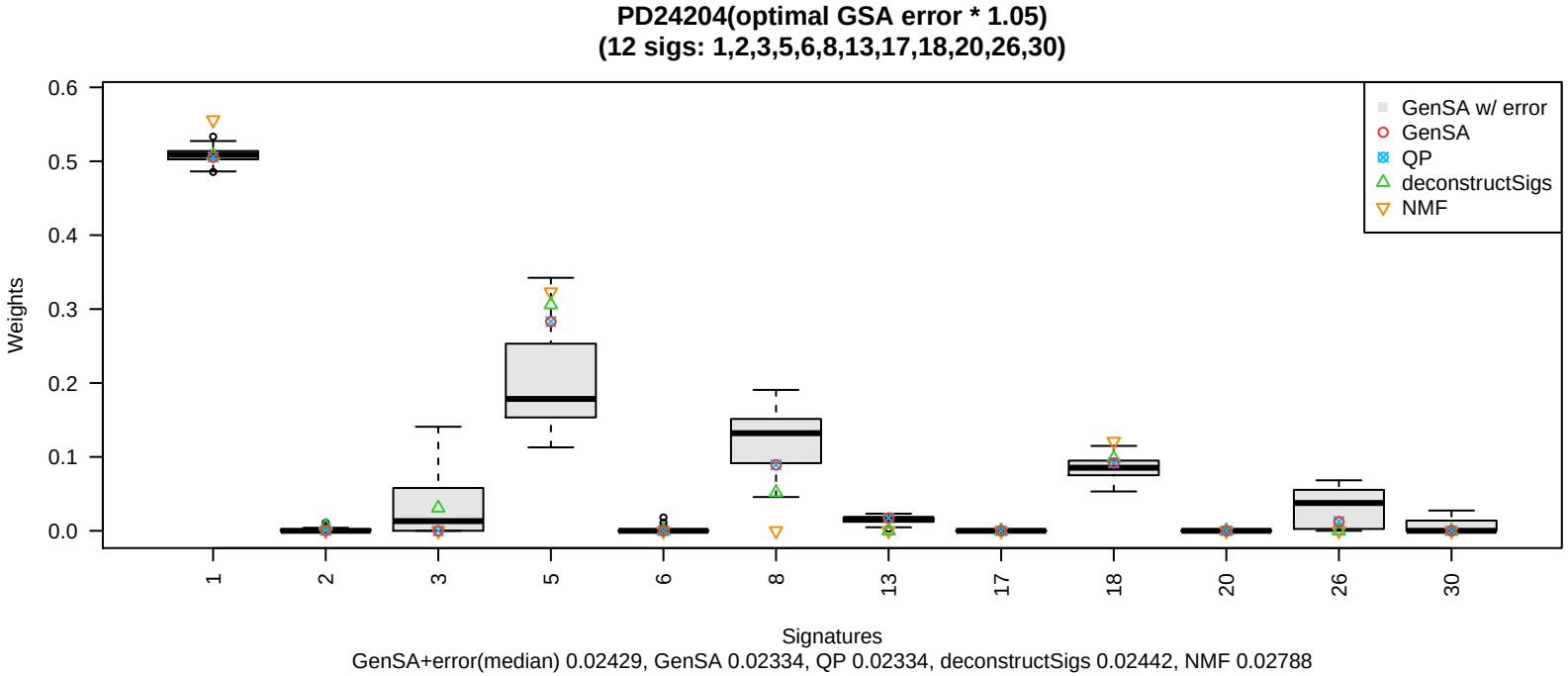
GenSA+error(median) 0.02382, GenSA 0.02280, QP 0.02280, deconstructSigs 0.02286, NMF 0.02643

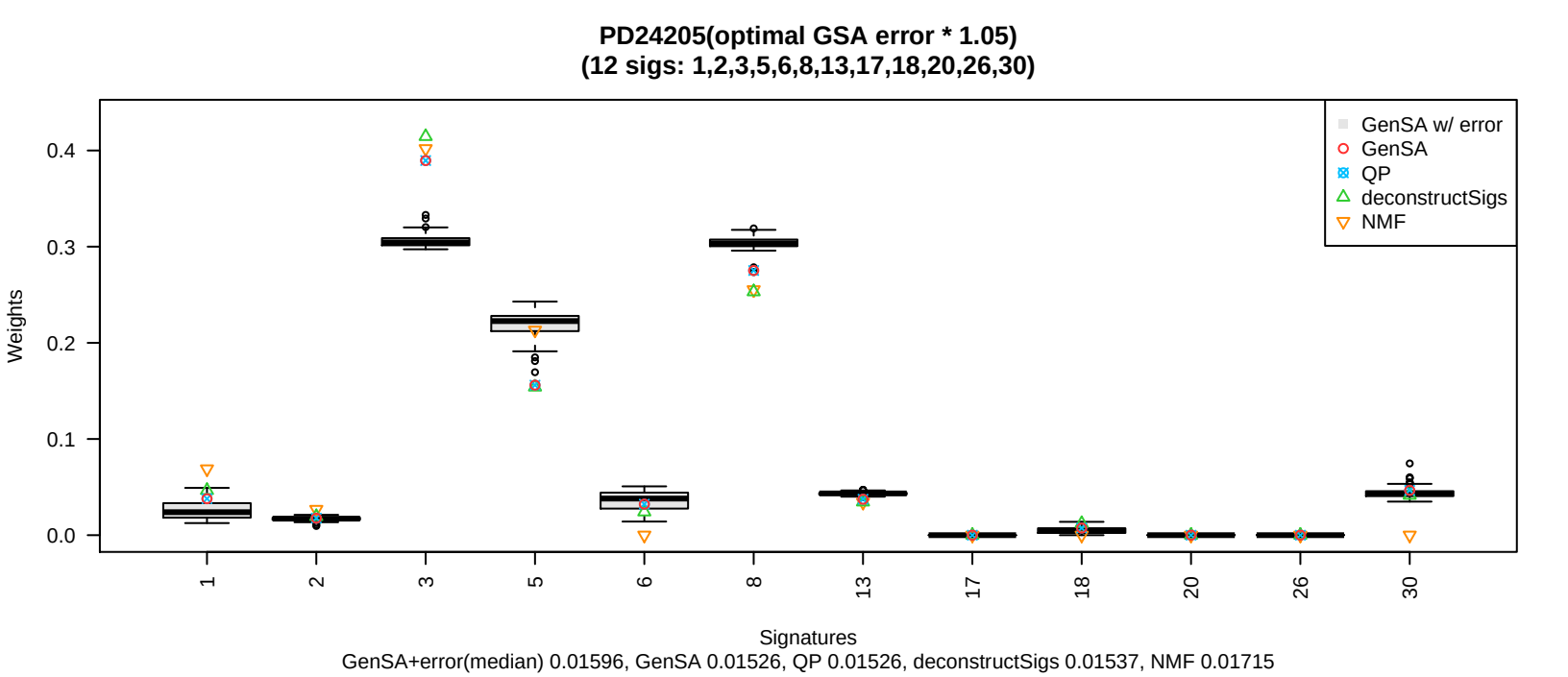


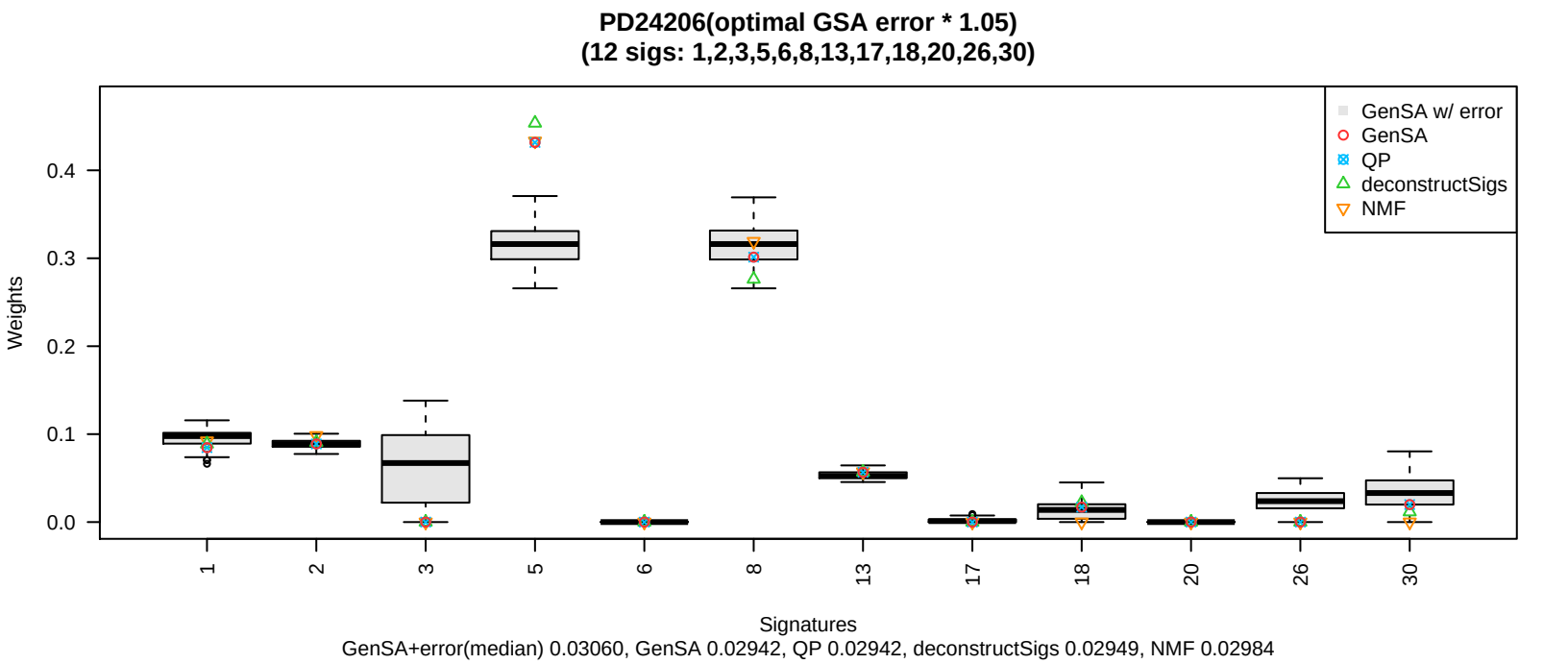
GenSA+error(median) 0.03639, GenSA 0.03521, QP 0.03521, deconstructSigs 0.03524, NMF 0.03530

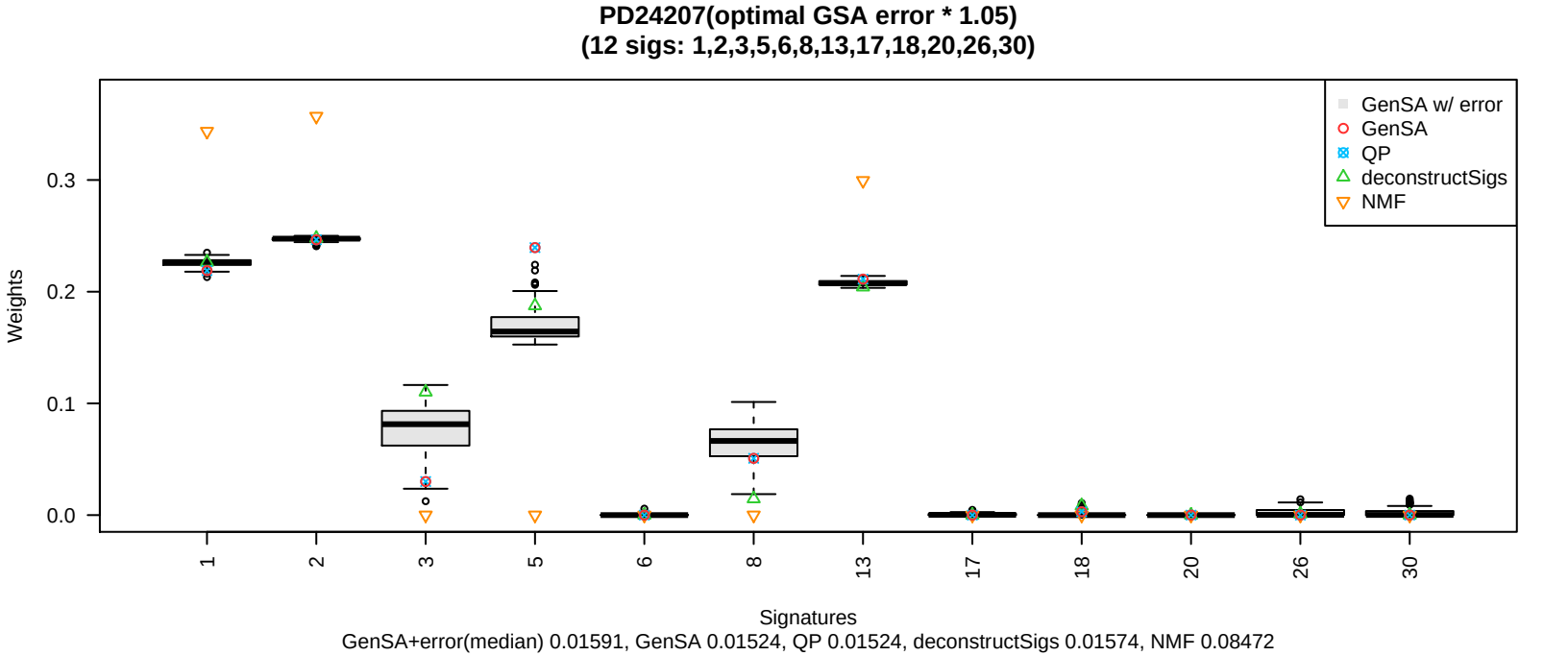

PD24201(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02410, GenSA 0.02310, QP 0.02310, deconstructSigs 0.02333, NMF 0.02475

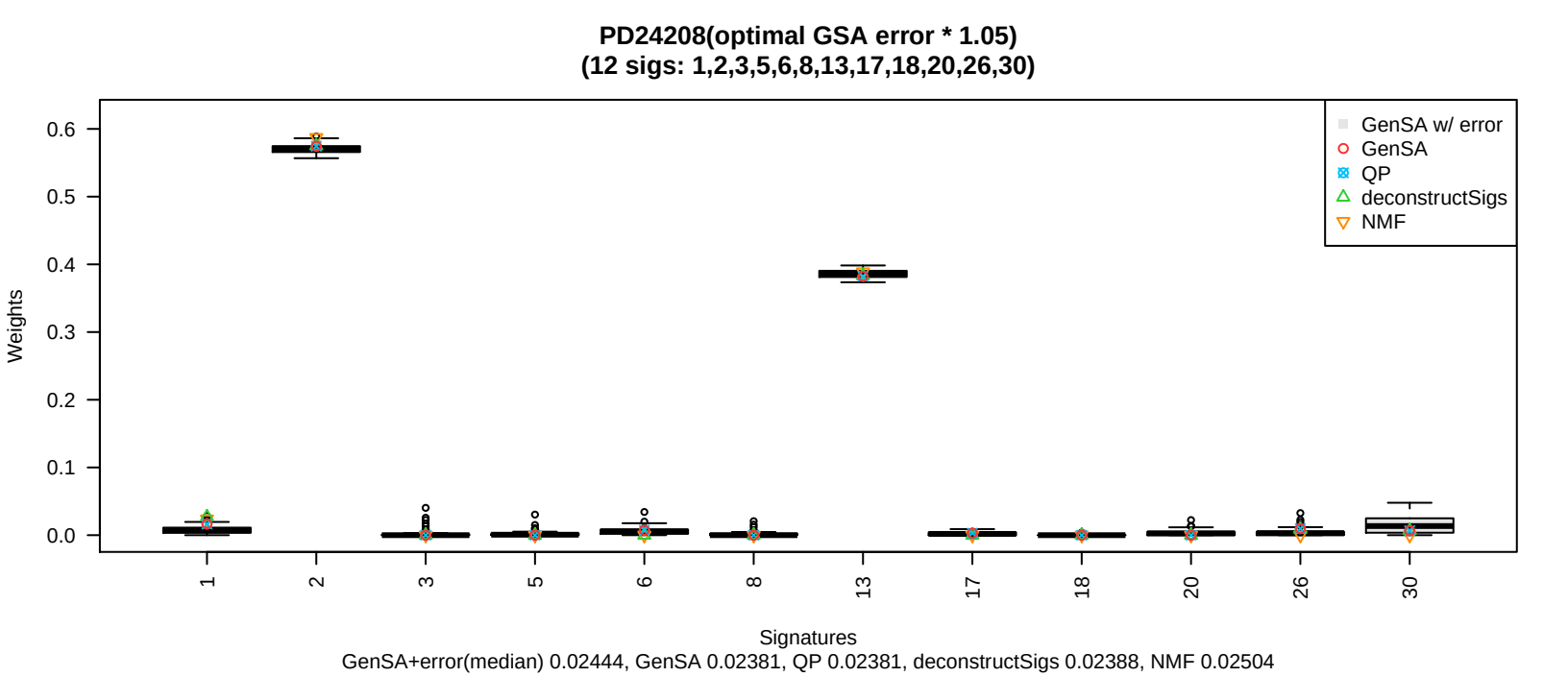

PD24202(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01577, GenSA 0.01510, QP 0.01510, deconstructSigs 0.01516, NMF 0.01532


PD24204(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02429, GenSA 0.02334, QP 0.02334, deconstructSigs 0.02442, NMF 0.02788

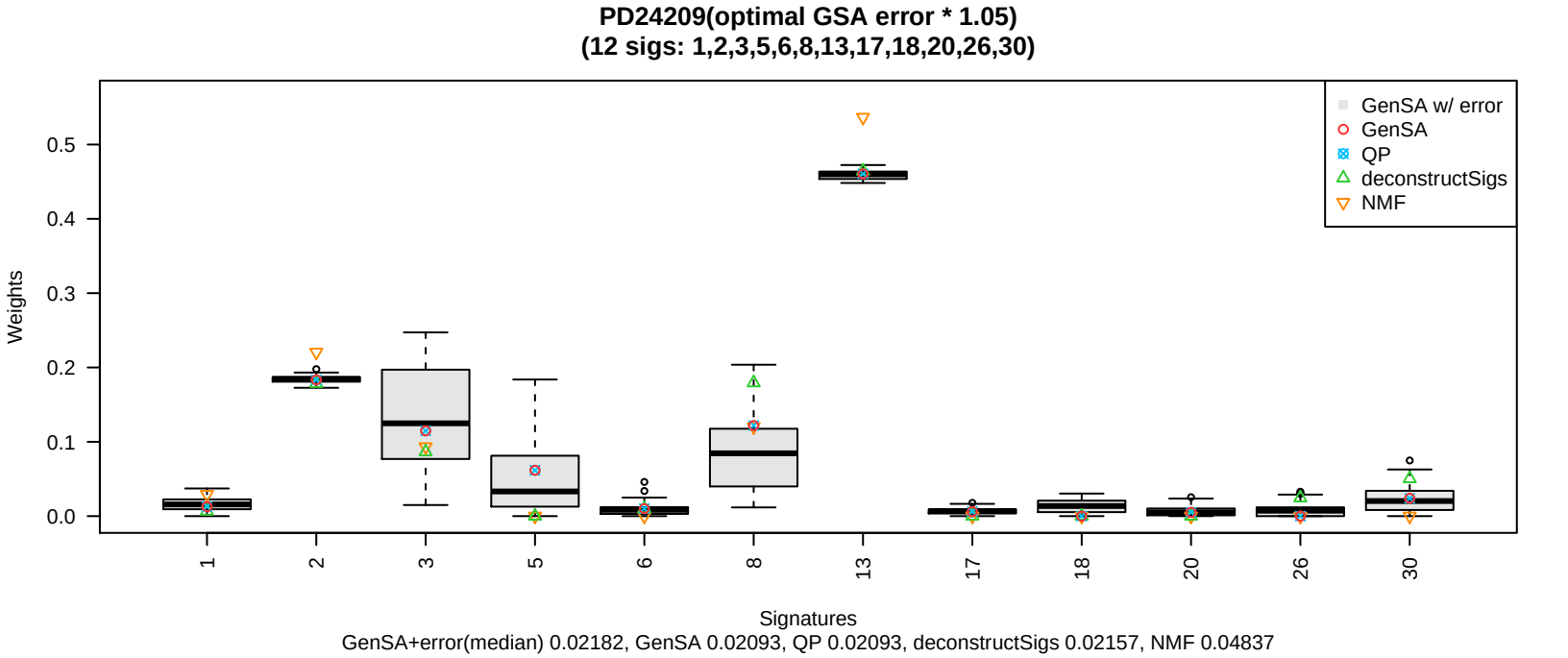

PD24205(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01596, GenSA 0.01526, QP 0.01526, deconstructSigs 0.01537, NMF 0.01715


PD24206(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03060, GenSA 0.02942, QP 0.02942, deconstructSigs 0.02949, NMF 0.02984

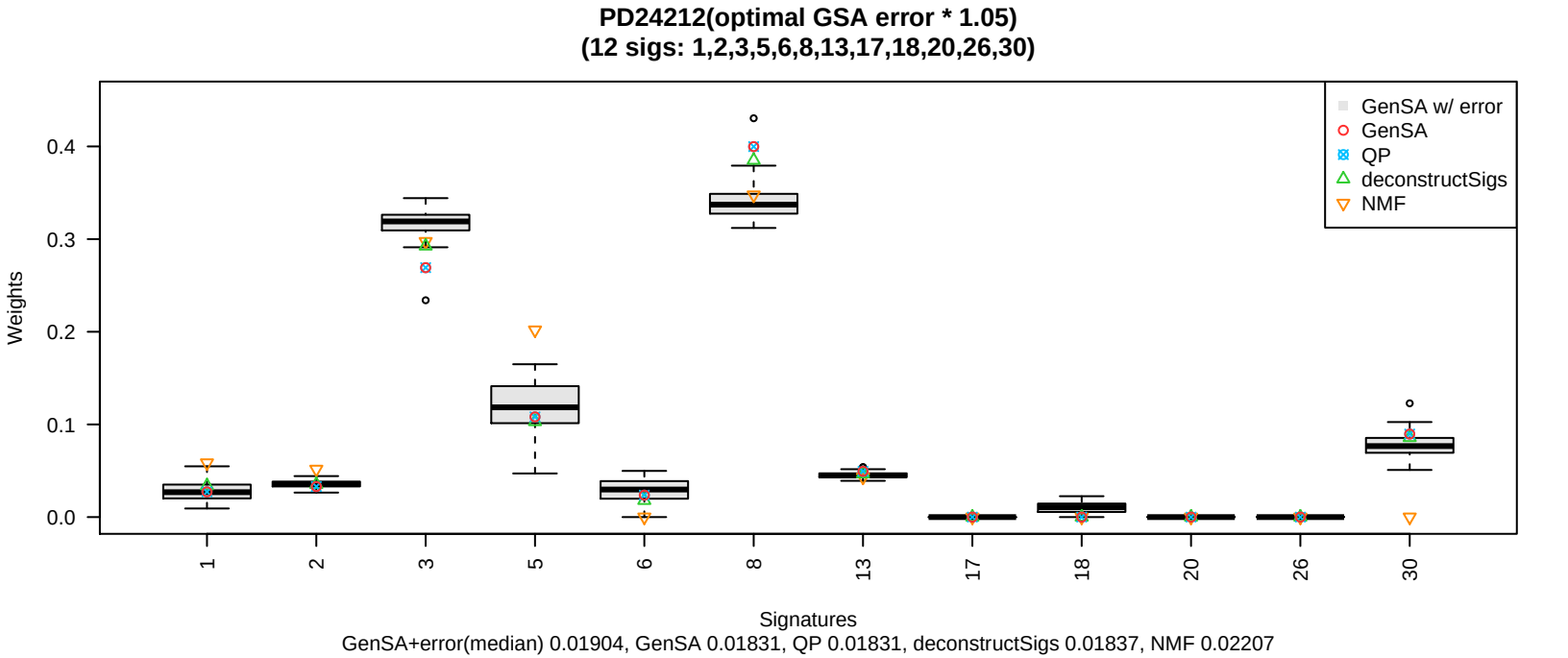

PD24207(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01591, GenSA 0.01524, QP 0.01524, deconstructSigs 0.01574, NMF 0.08472



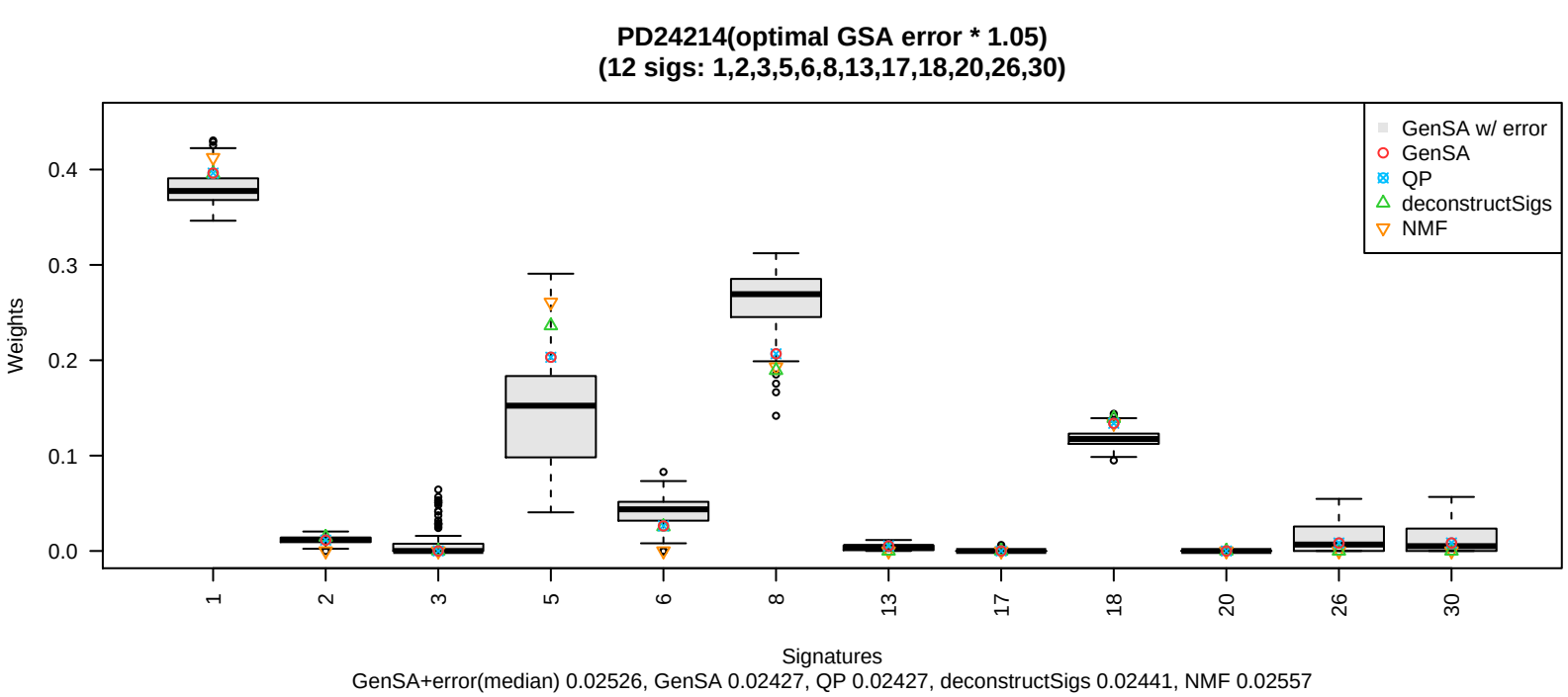
GenSA+error(median) 0.02444, GenSA 0.02381, QP 0.02381, deconstructSigs 0.02388, NMF 0.02504



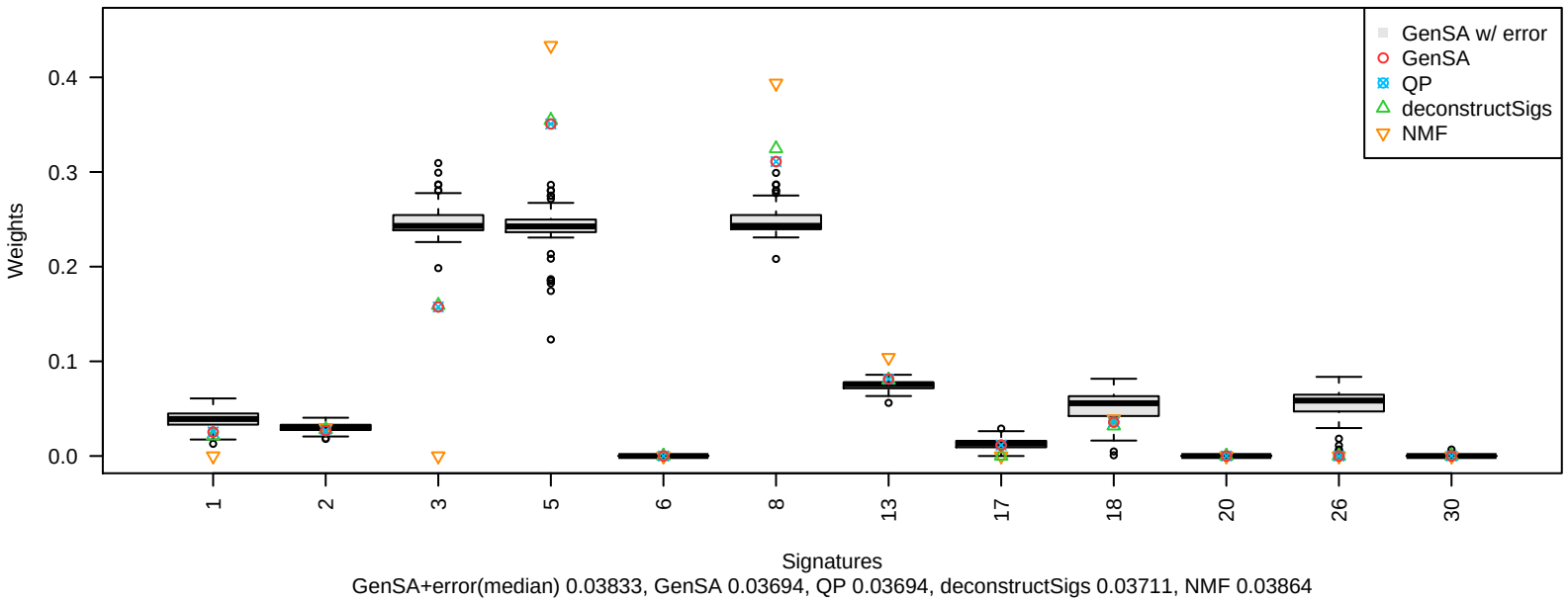
GenSA+error(median) 0.02182, GenSA 0.02093, QP 0.02093, deconstructSigs 0.02157, NMF 0.04837



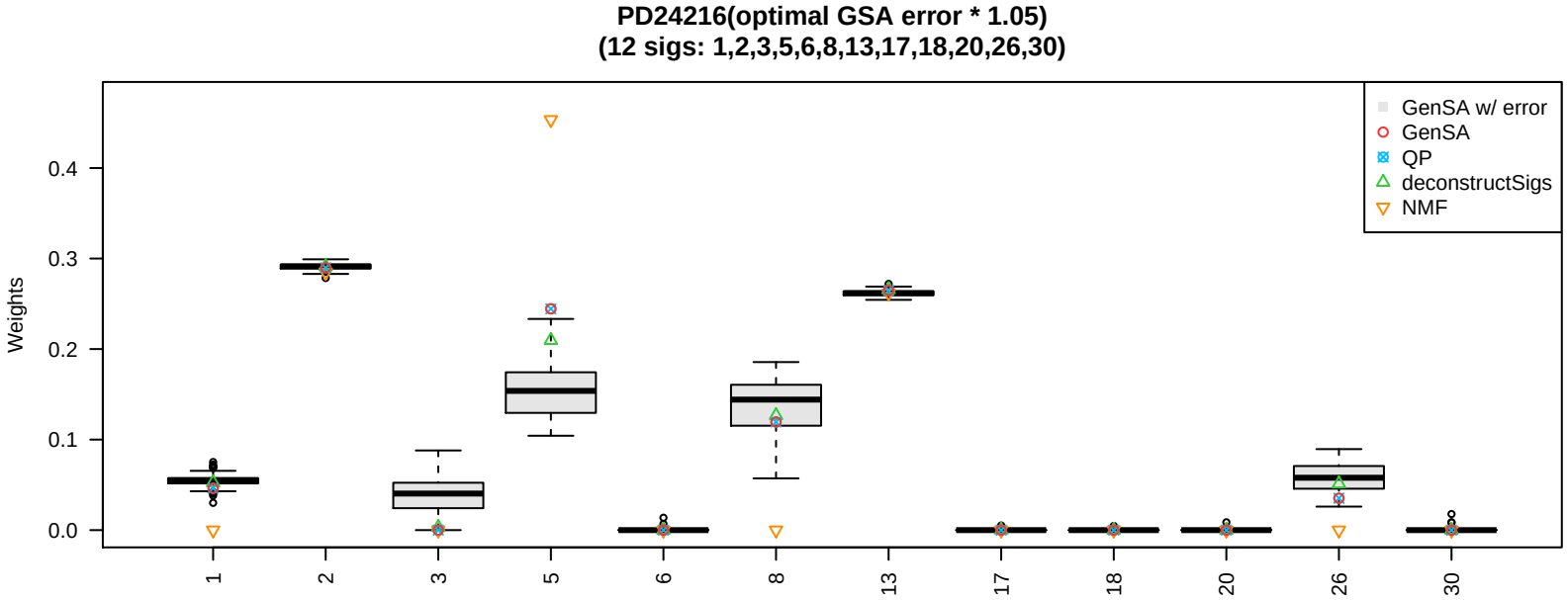
GenSA+error(median) 0.01904, GenSA 0.01831, QP 0.01831, deconstructSigs 0.01837, NMF 0.02207



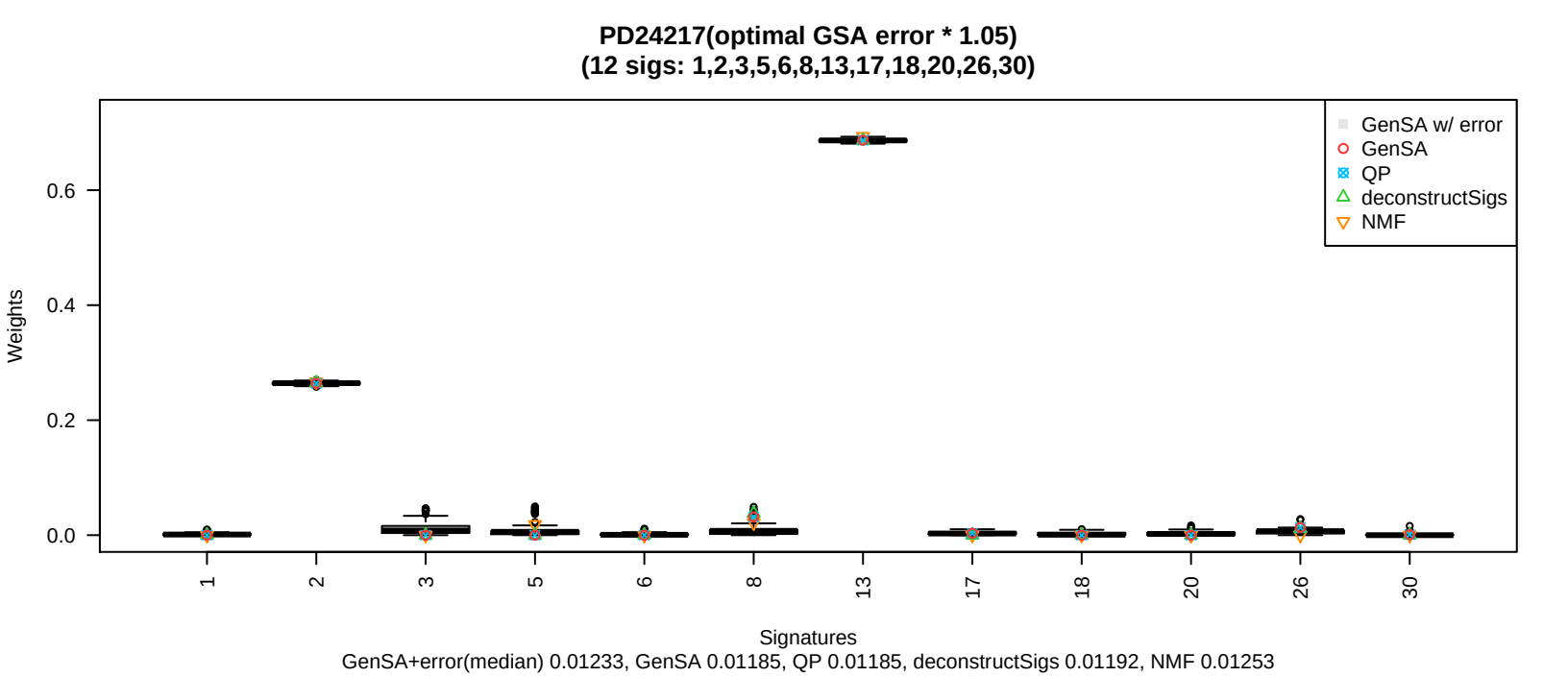
GenSA+error(median) 0.02526, GenSA 0.02427, QP 0.02427, deconstructSigs 0.02441, NMF 0.02557



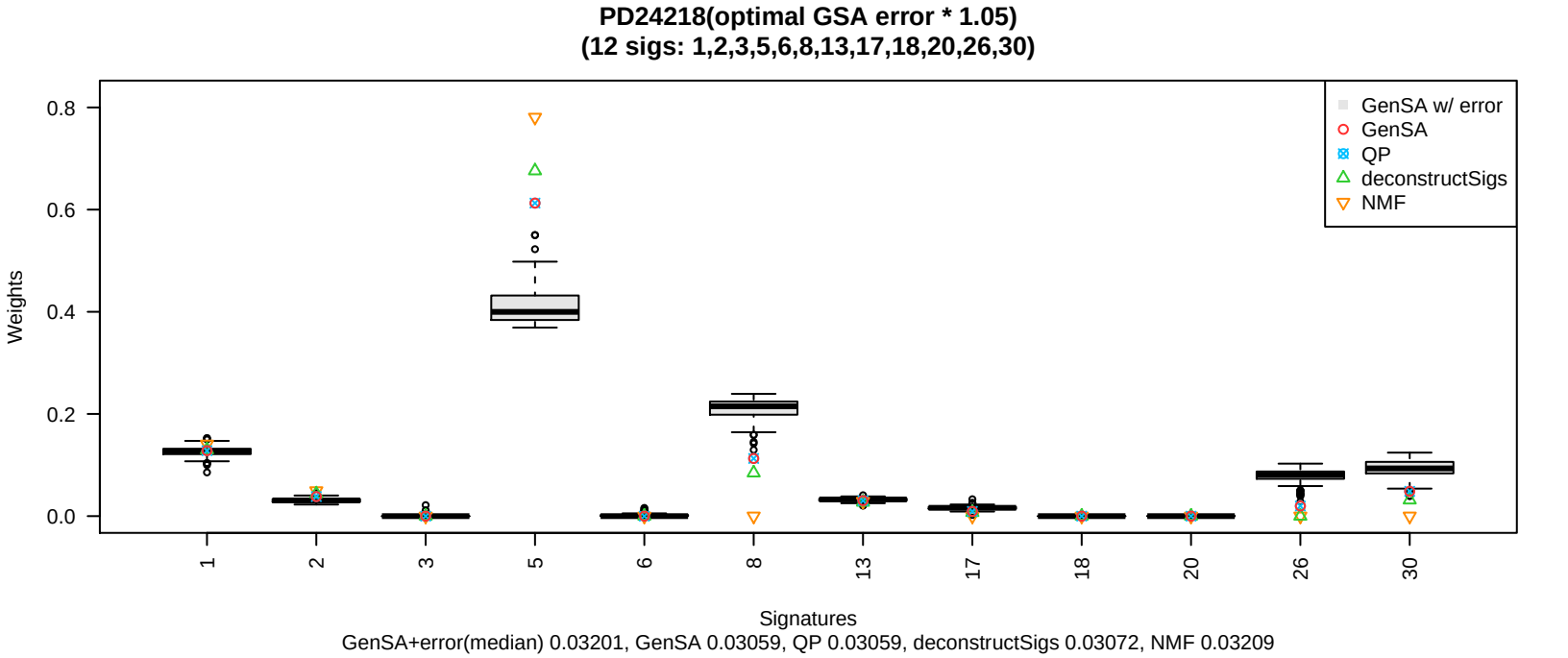
GenSA+error(median) 0.03833, GenSA 0.03694, QP 0.03694, deconstructSigs 0.03711, NMF 0.03864



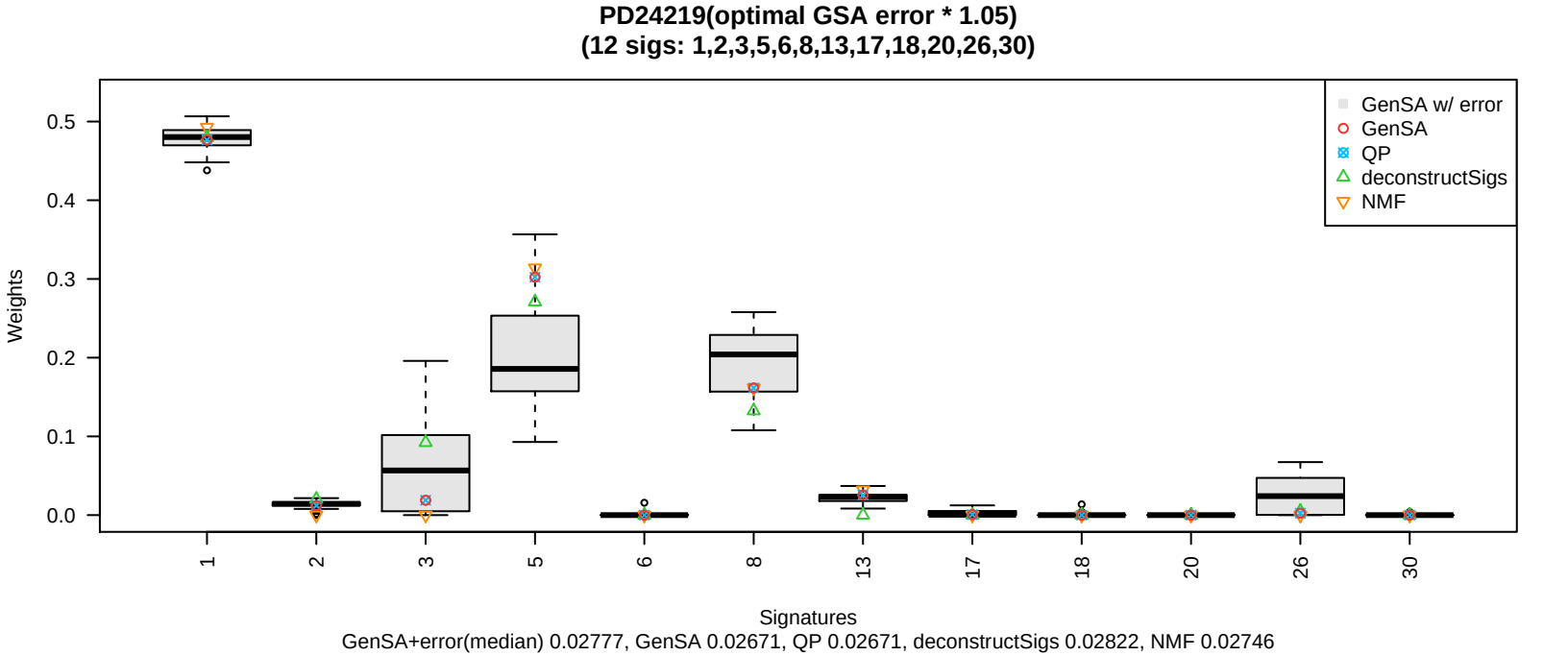
GenSA+error(median) 0.02690, GenSA 0.02579, QP 0.02579, deconstructSigs 0.02594, NMF 0.02982



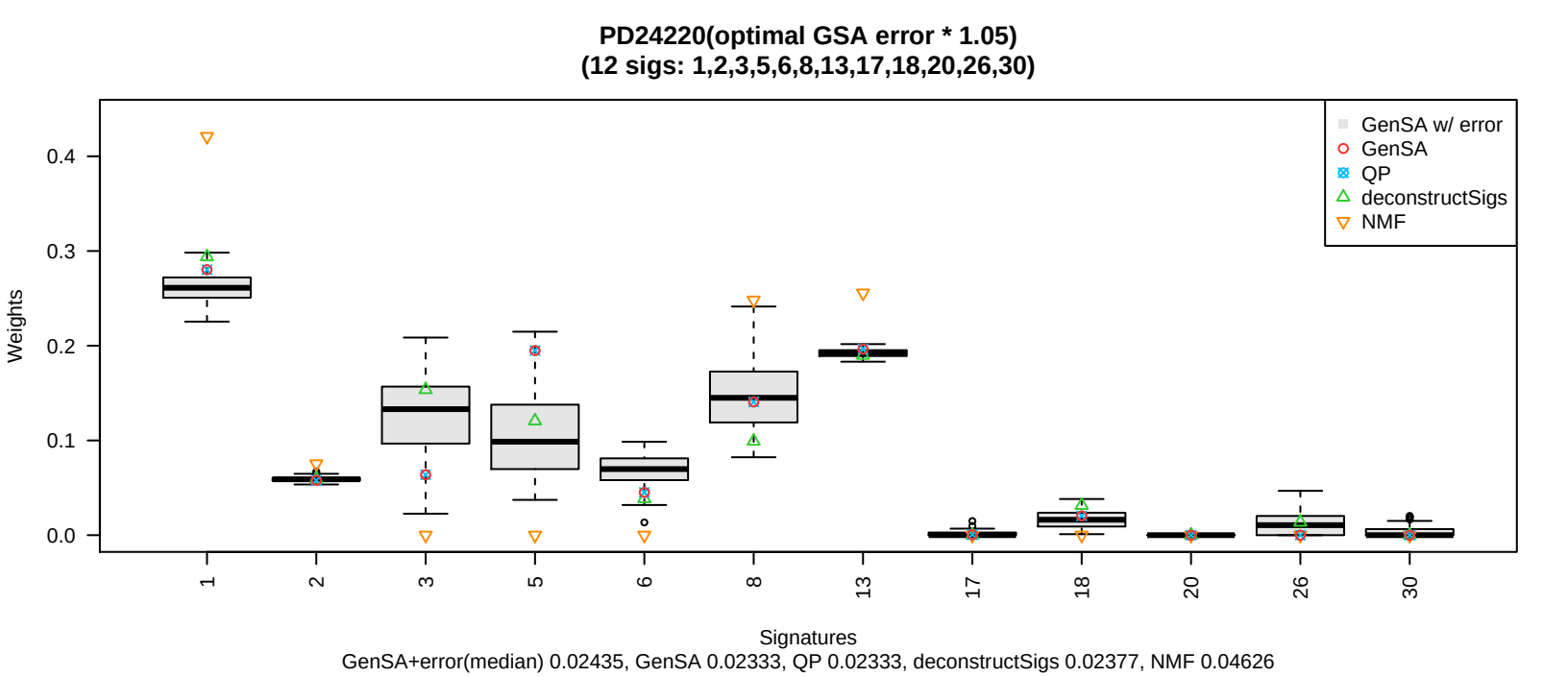
GenSA+error(median) 0.01233, GenSA 0.01185, QP 0.01185, deconstructSigs 0.01192, NMF 0.01253

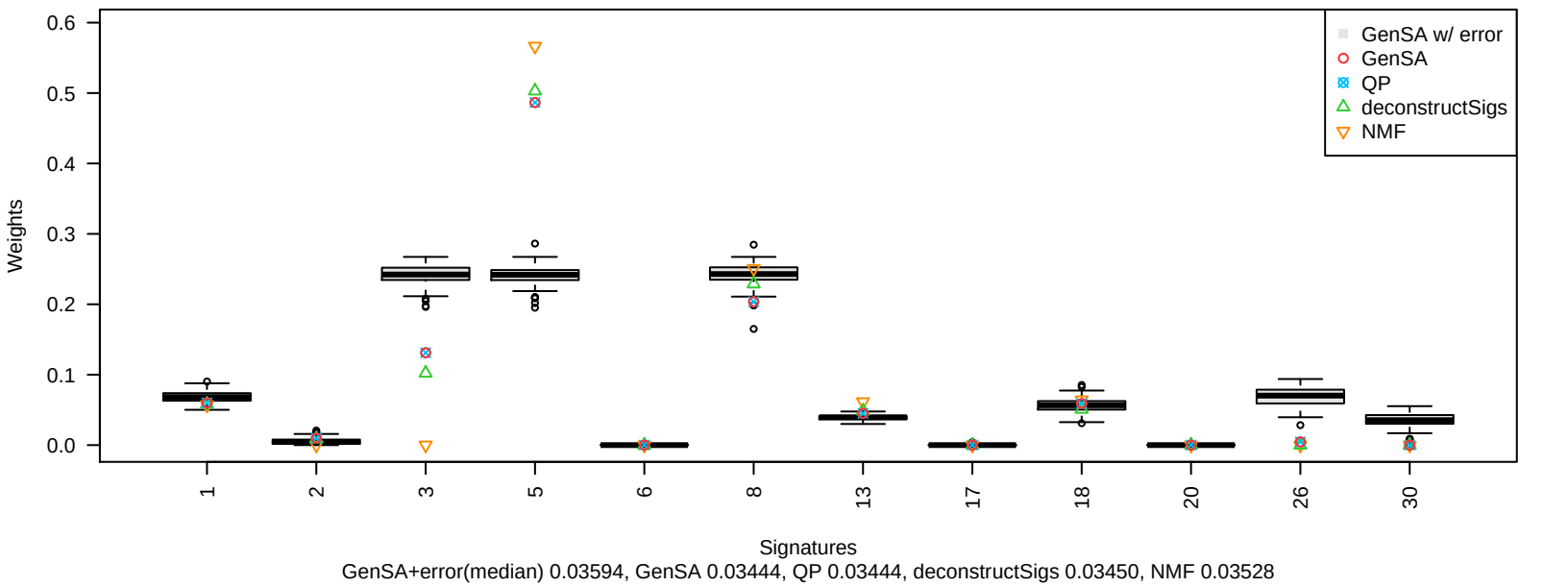


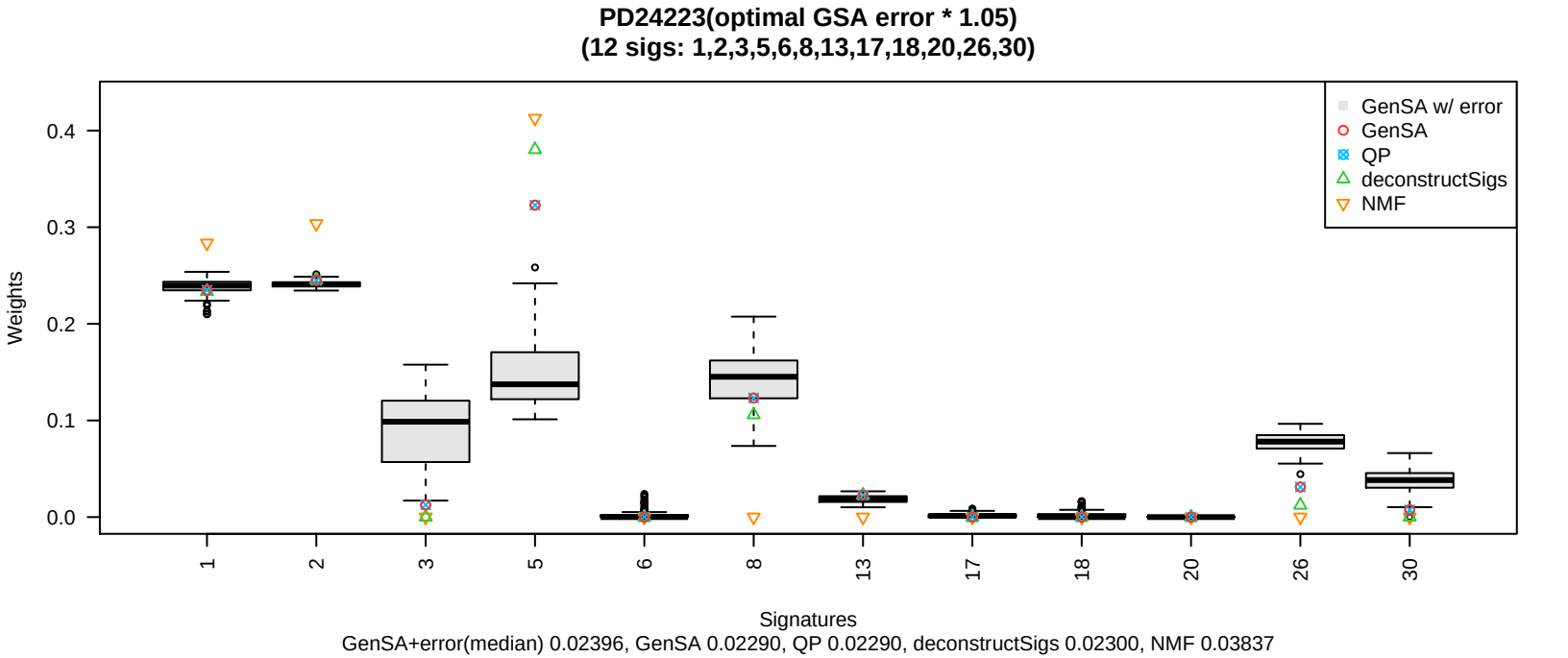
GenSA+error(median) 0.03201, GenSA 0.03059, QP 0.03059, deconstructSigs 0.03072, NMF 0.03209

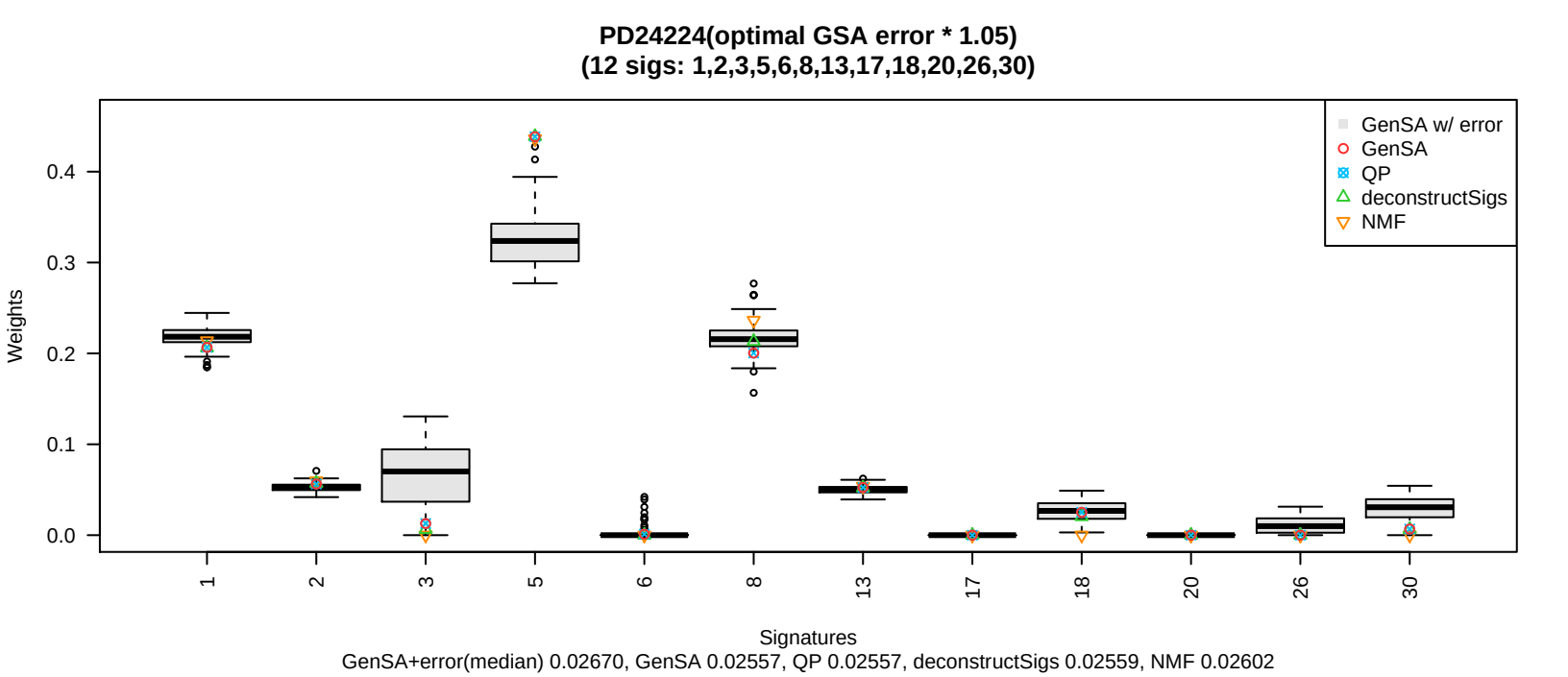


GenSA+error(median) 0.02777, GenSA 0.02671, QP 0.02671, deconstructSigs 0.02822, NMF 0.02746

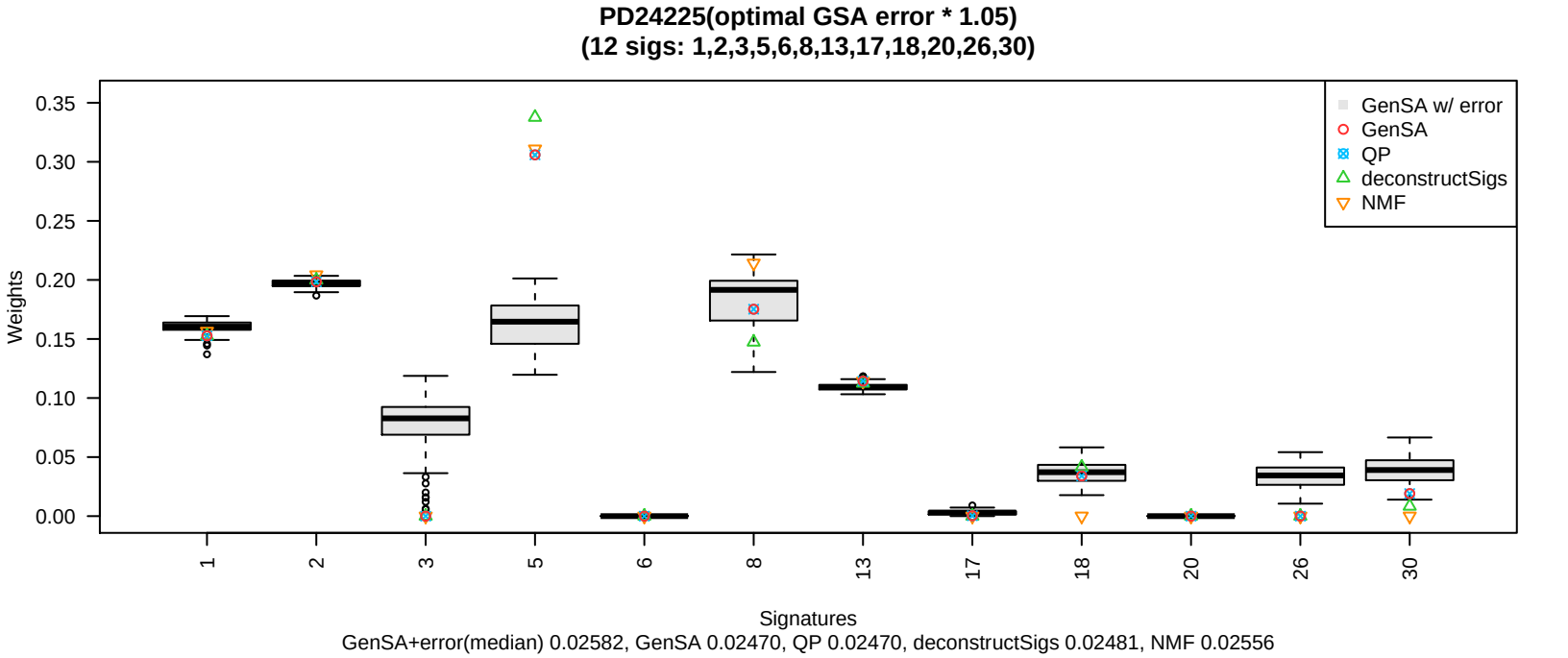

PD24220(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02435, GenSA 0.02333, QP 0.02333, deconstructSigs 0.02377, NMF 0.04626


PD24221(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03594, GenSA 0.03444, QP 0.03444, deconstructSigs 0.03450, NMF 0.03528

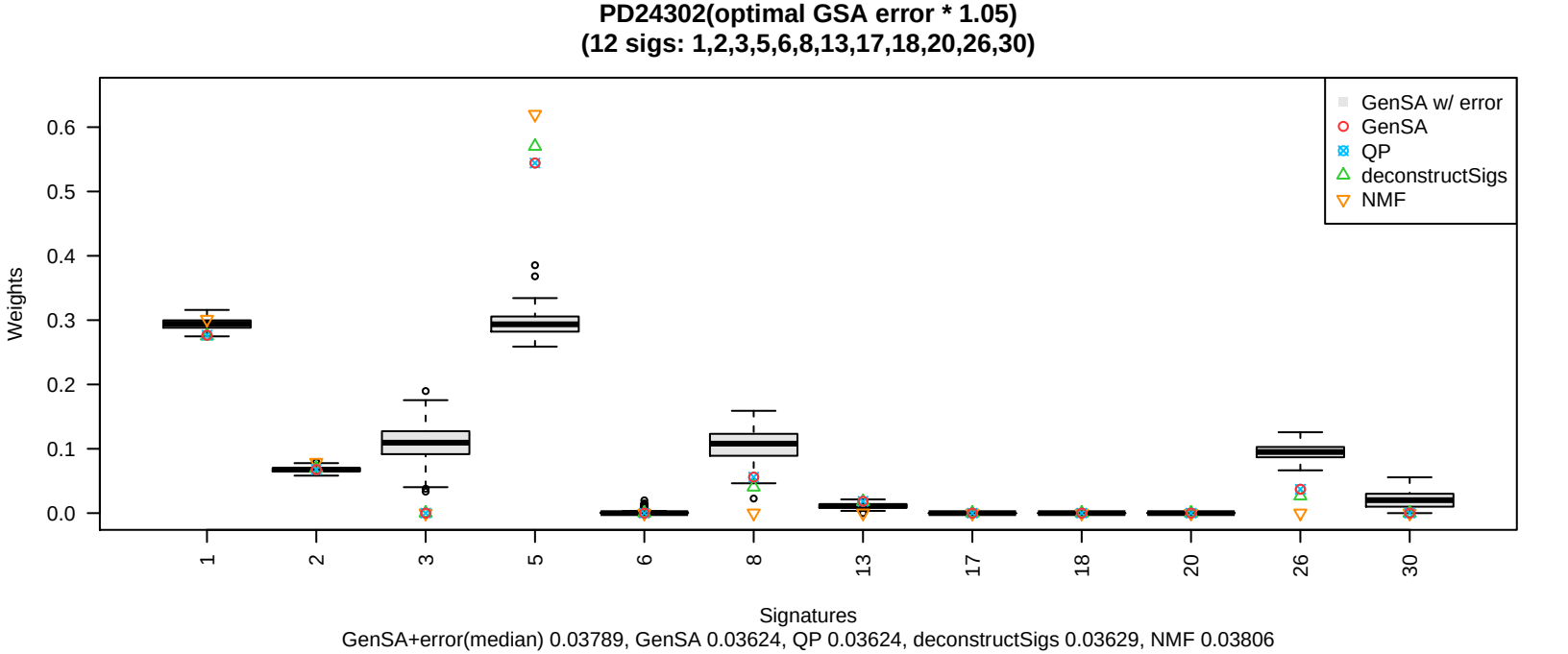

PD24223(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02396, GenSA 0.02290, QP 0.02290, deconstructSigs 0.02300, NMF 0.03837



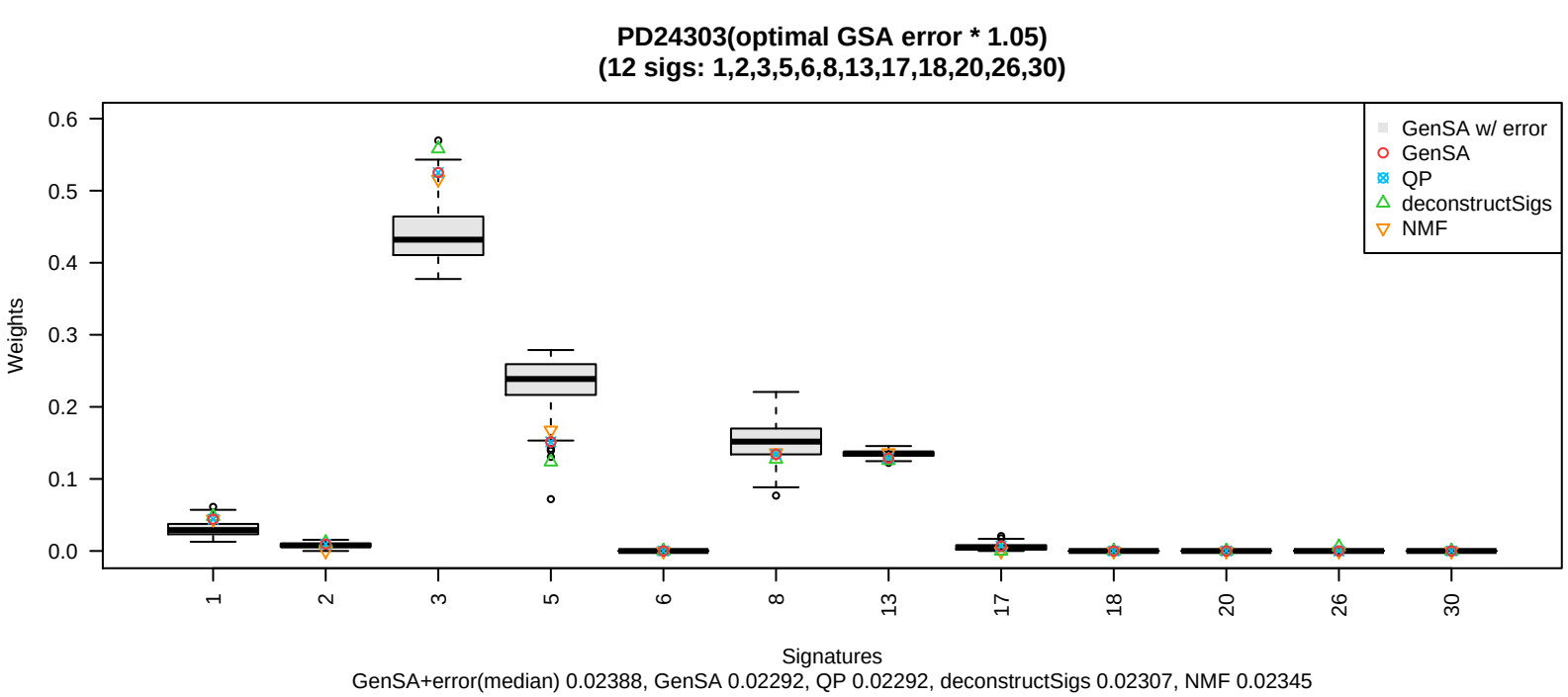
GenSA+error(median) 0.02670, GenSA 0.02557, QP 0.02557, deconstructSigs 0.02559, NMF 0.02602



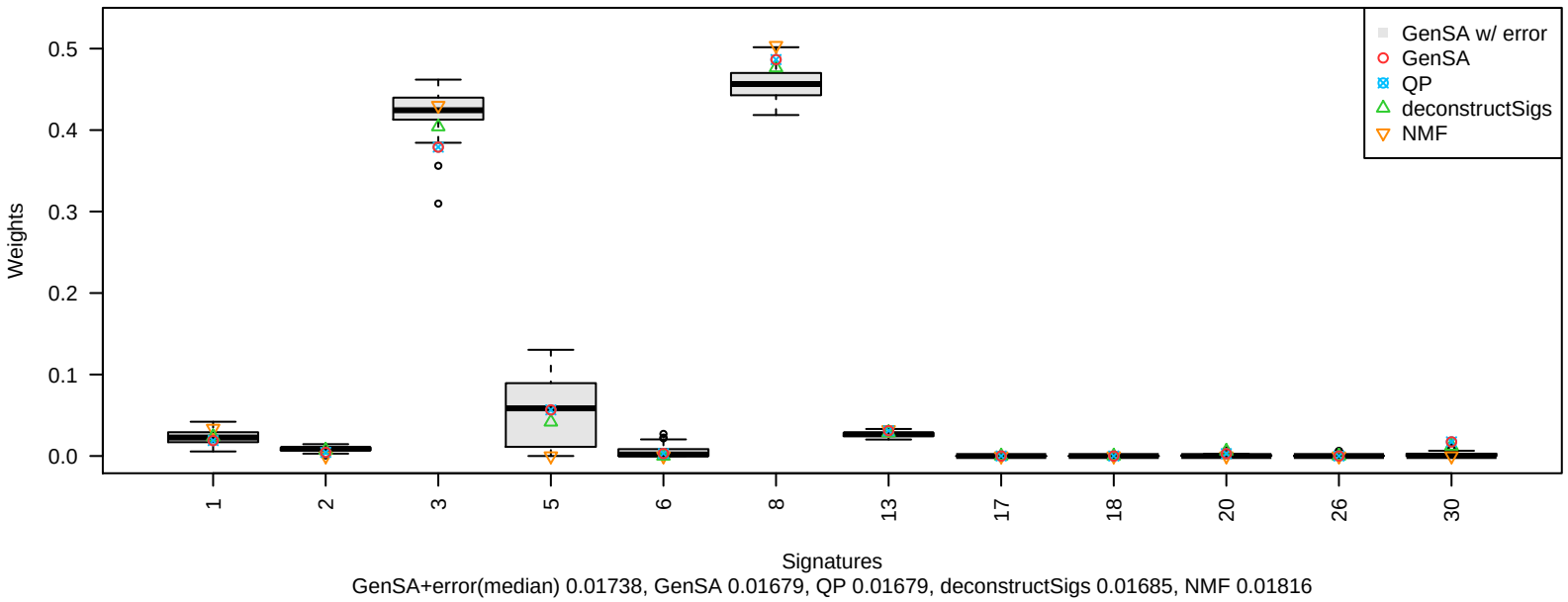
GenSA+error(median) 0.02582, GenSA 0.02470, QP 0.02470, deconstructSigs 0.02481, NMF 0.02556



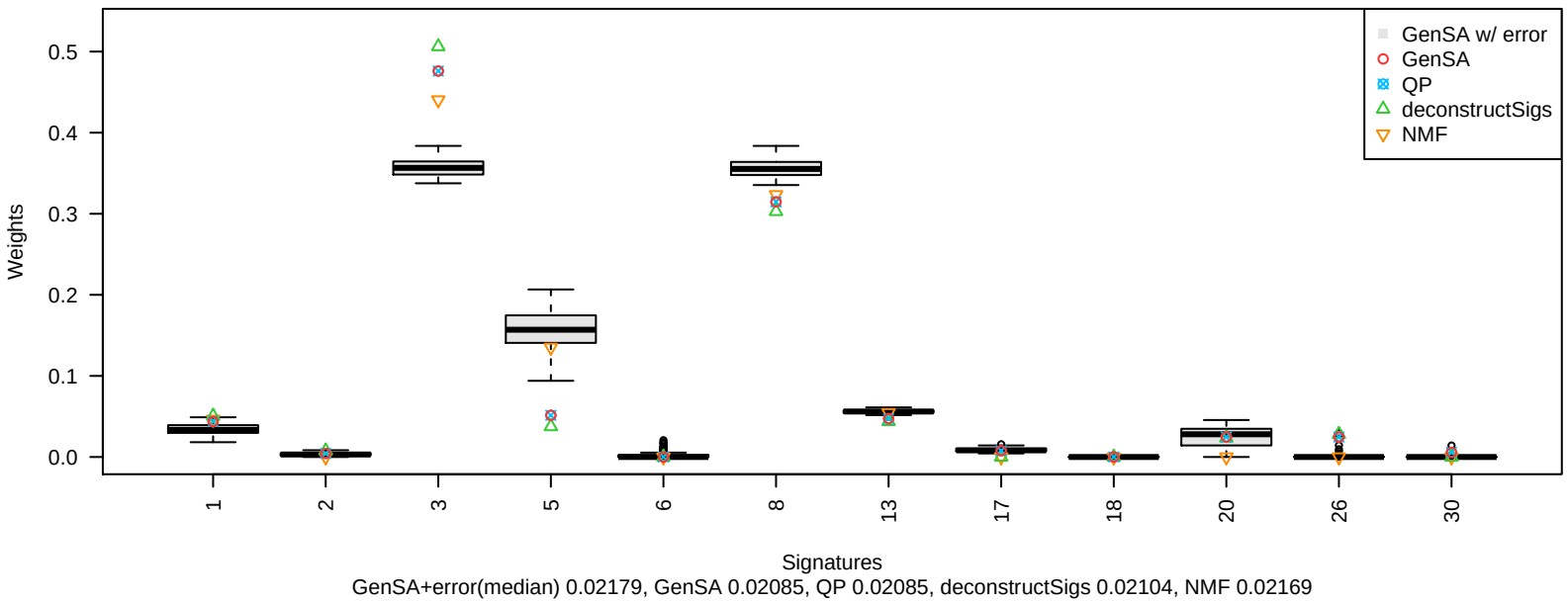
GenSA+error(median) 0.03789, GenSA 0.03624, QP 0.03624, deconstructSigs 0.03629, NMF 0.03806



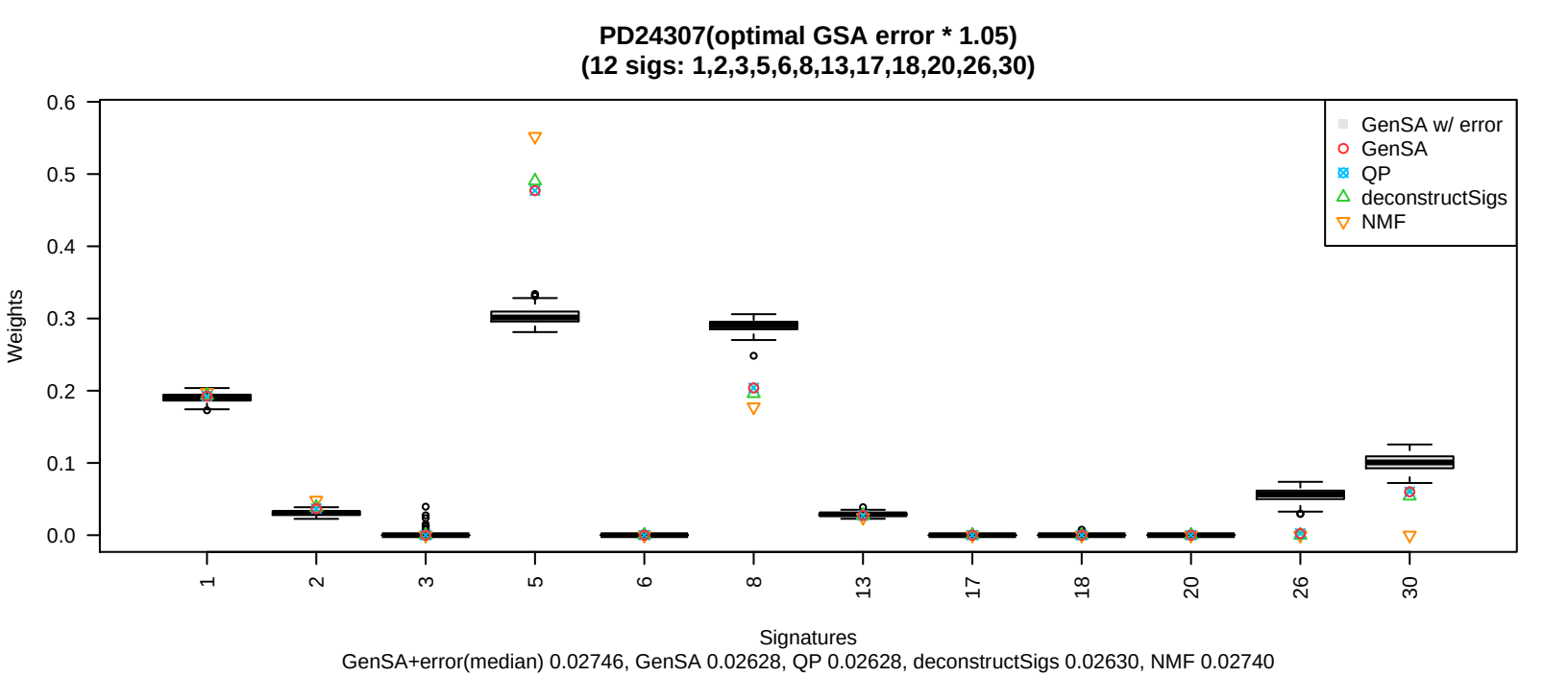
GenSA+error(median) 0.02388, GenSA 0.02292, QP 0.02292, deconstructSigs 0.02307, NMF 0.02345

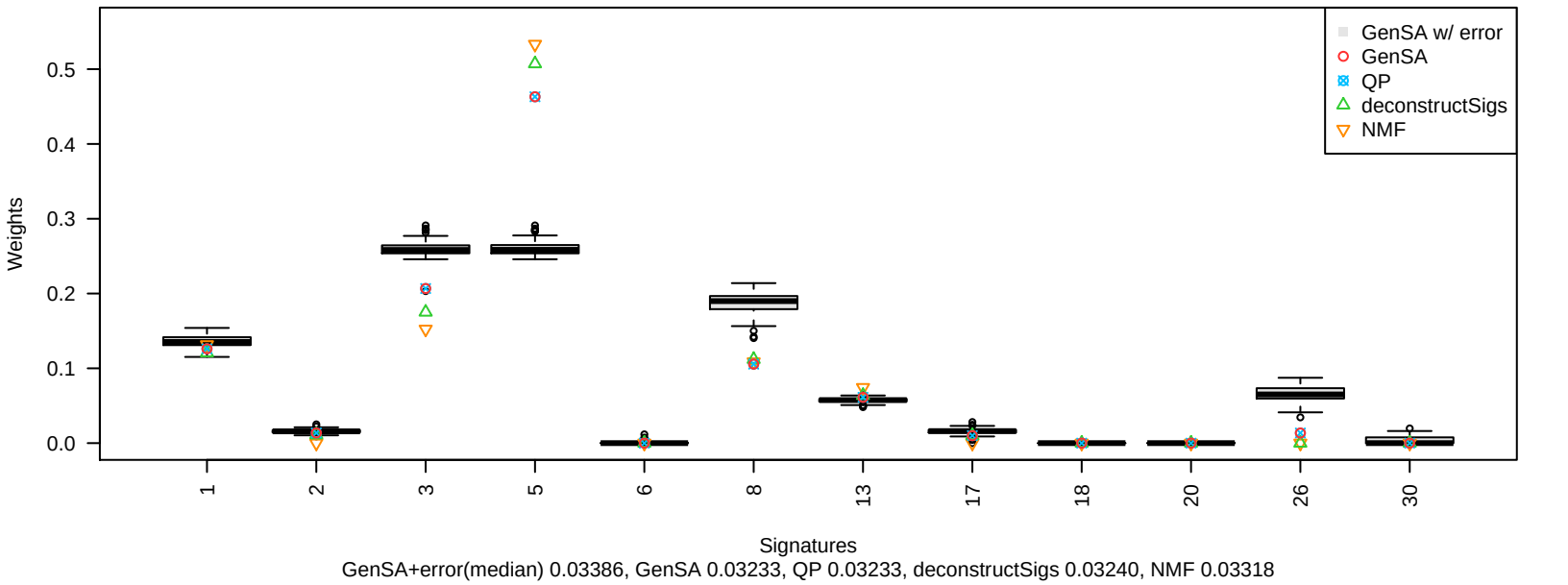


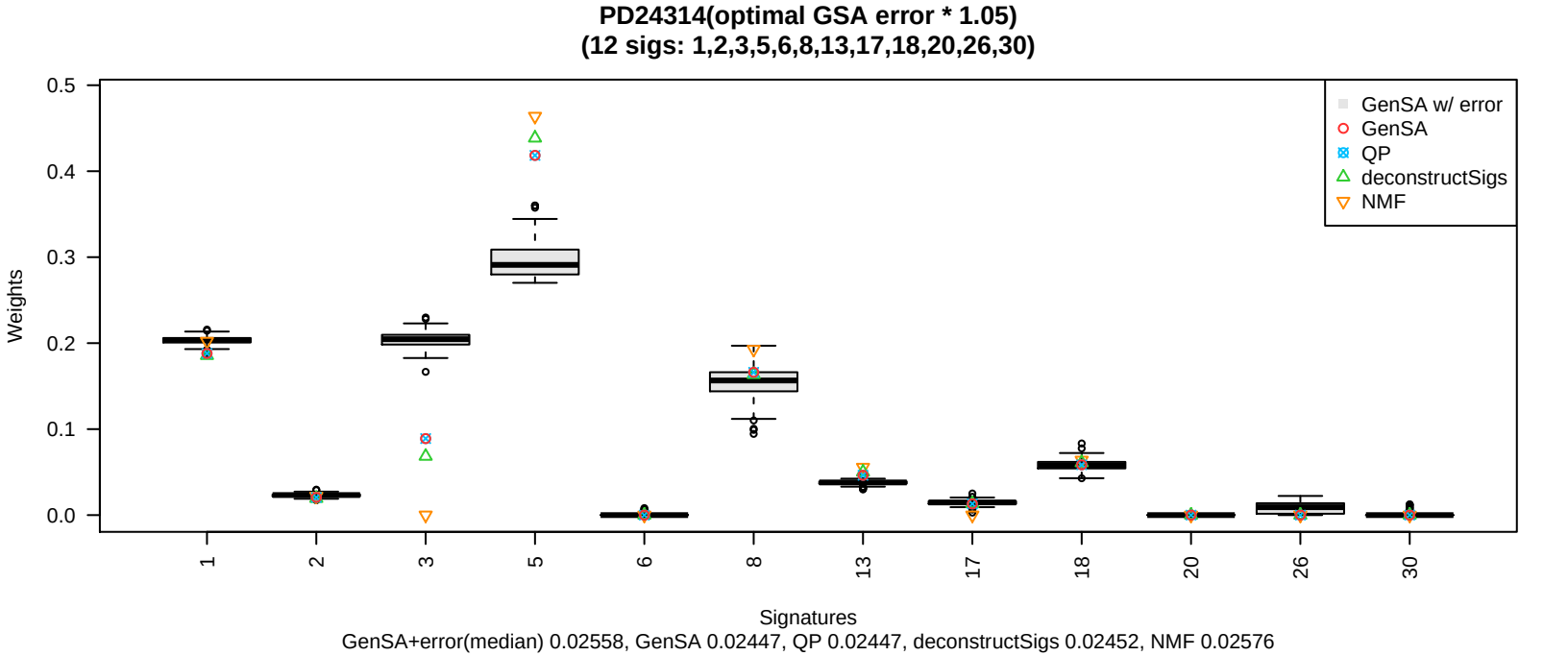
GenSA+error(median) 0.01738, GenSA 0.01679, QP 0.01679, deconstructSigs 0.01685, NMF 0.01816

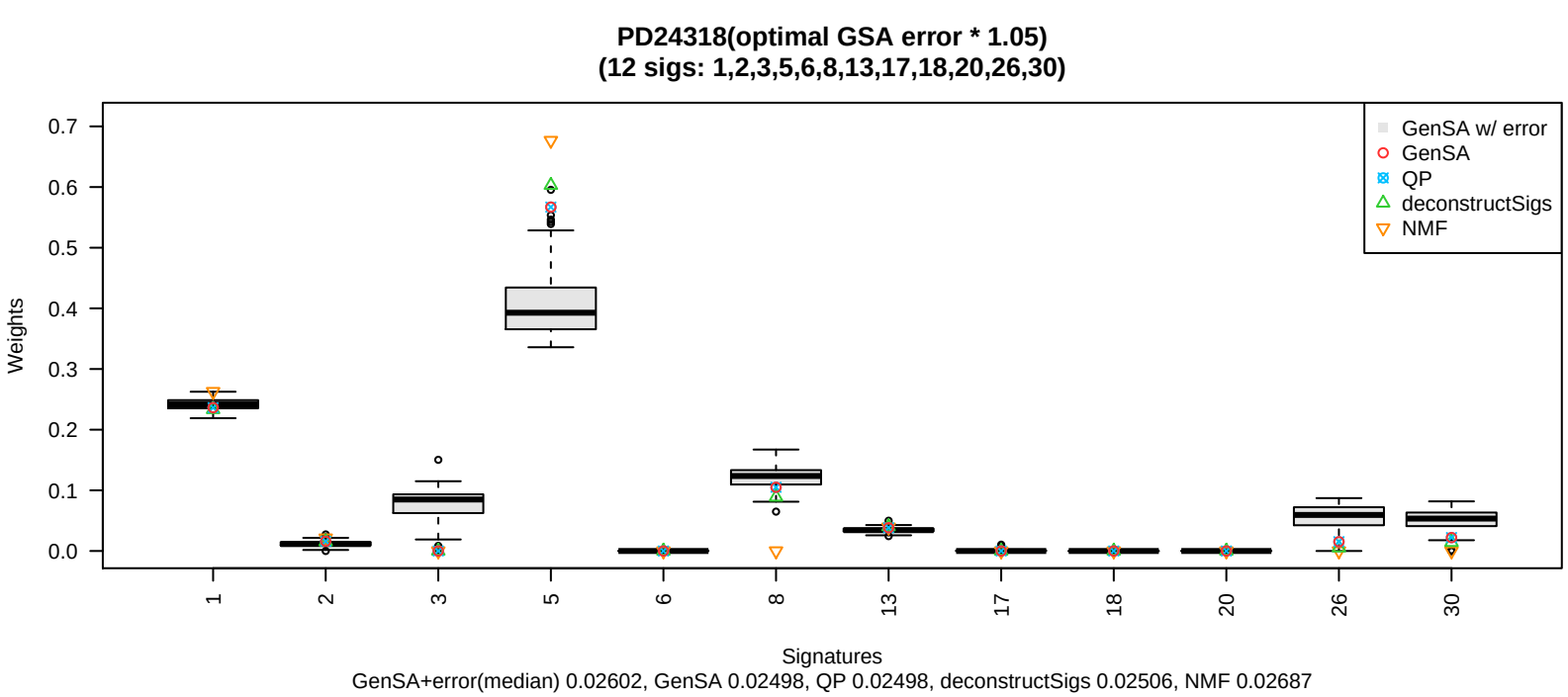


GenSA+error(median) 0.02179, GenSA 0.02085, QP 0.02085, deconstructSigs 0.02104, NMF 0.02169

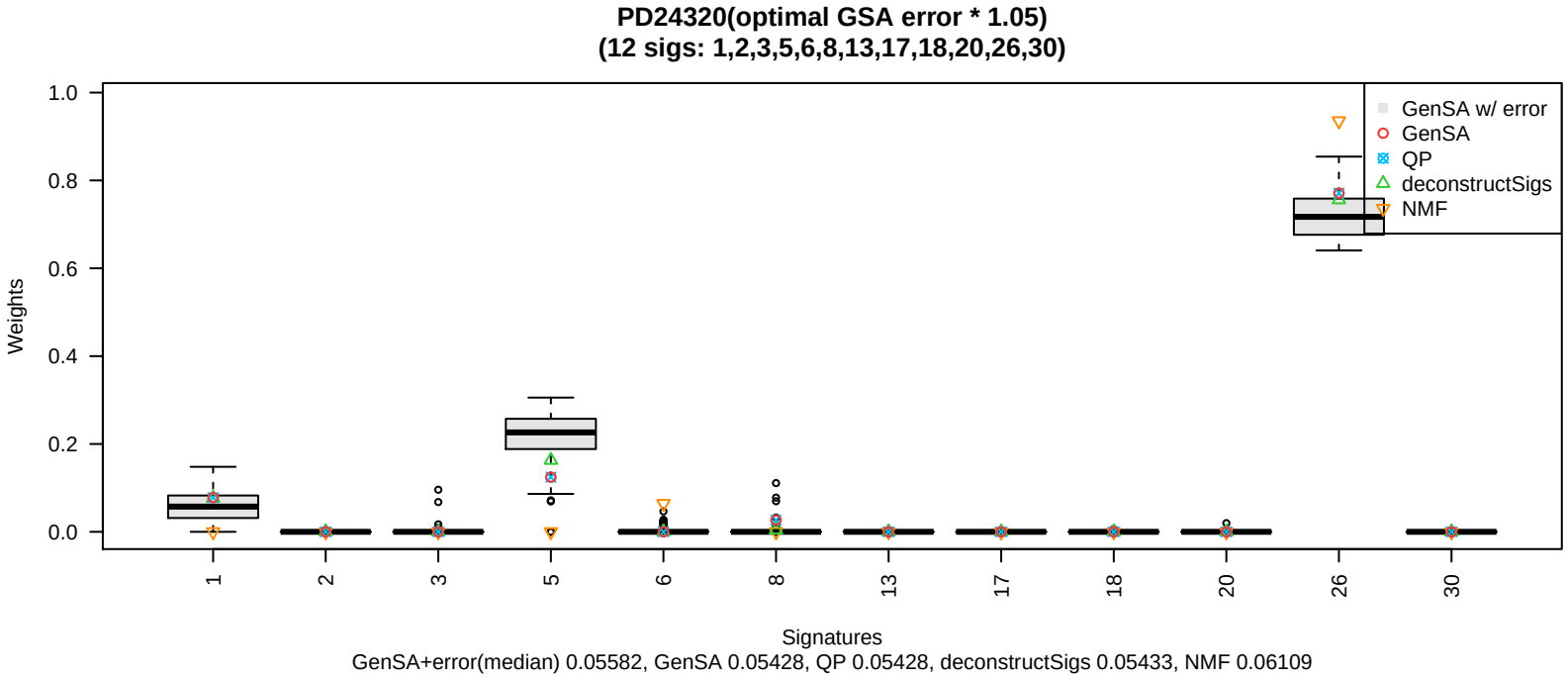

PD24307(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02746, GenSA 0.02628, QP 0.02628, deconstructSigs 0.02630, NMF 0.02740


PD24308(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03386, GenSA 0.03233, QP 0.03233, deconstructSigs 0.03240, NMF 0.03318

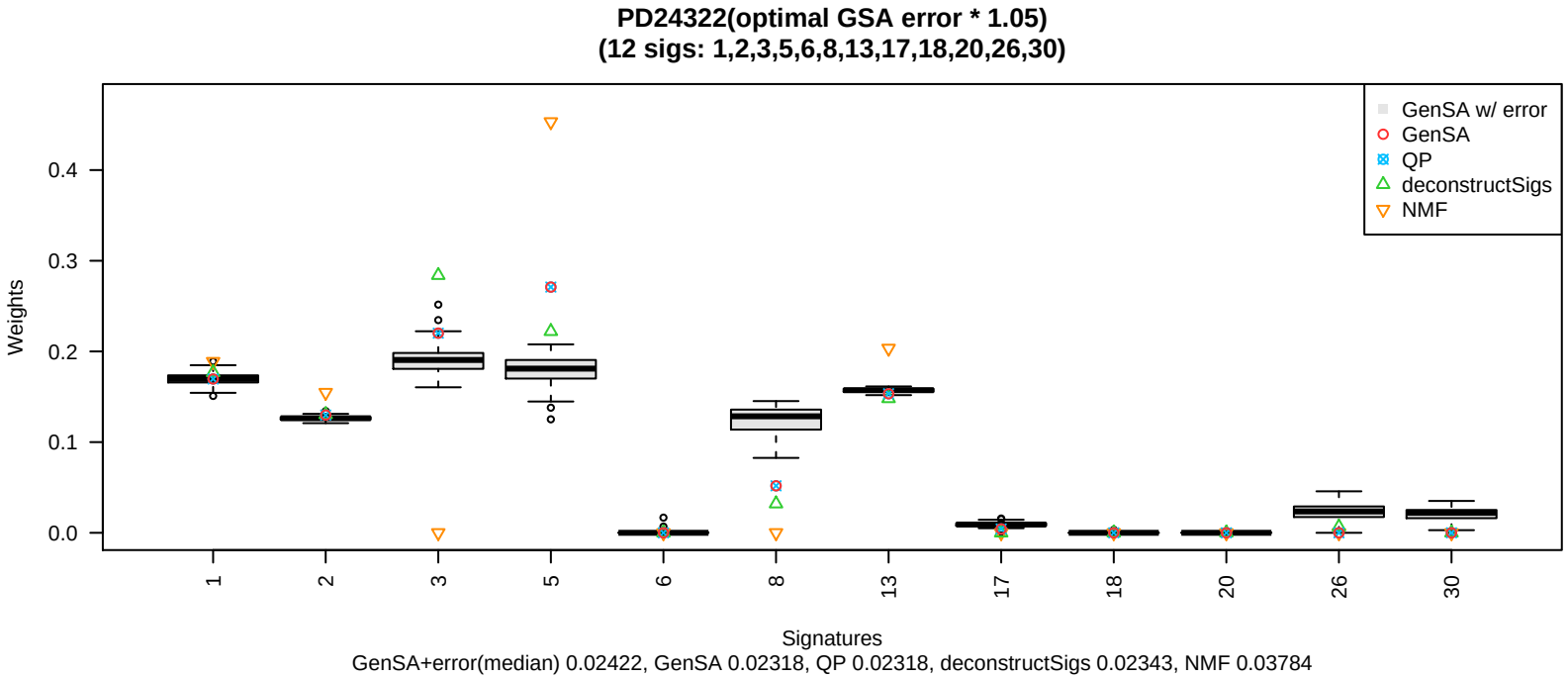

PD24314(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02558, GenSA 0.02447, QP 0.02447, deconstructSigs 0.02452, NMF 0.02576



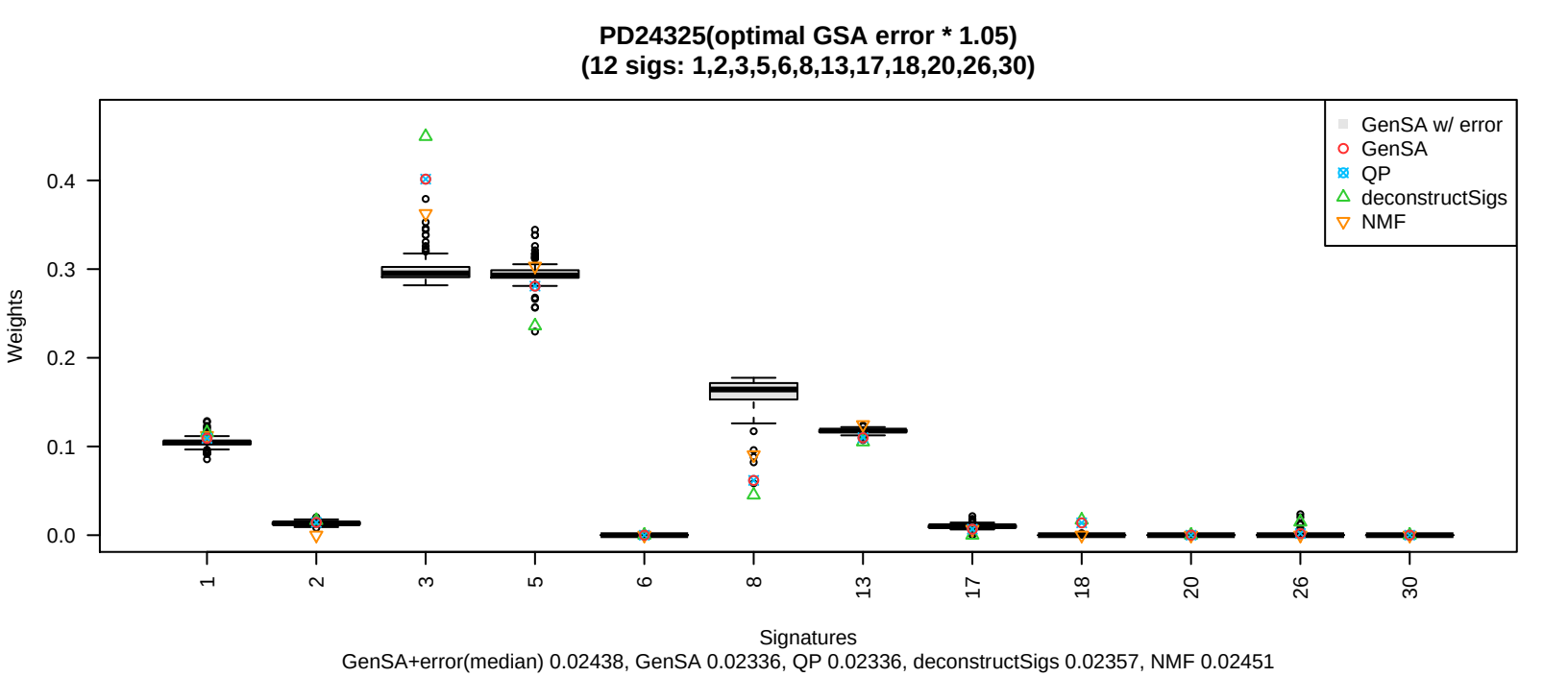
GenSA+error(median) 0.02602, GenSA 0.02498, QP 0.02498, deconstructSigs 0.02506, NMF 0.02687



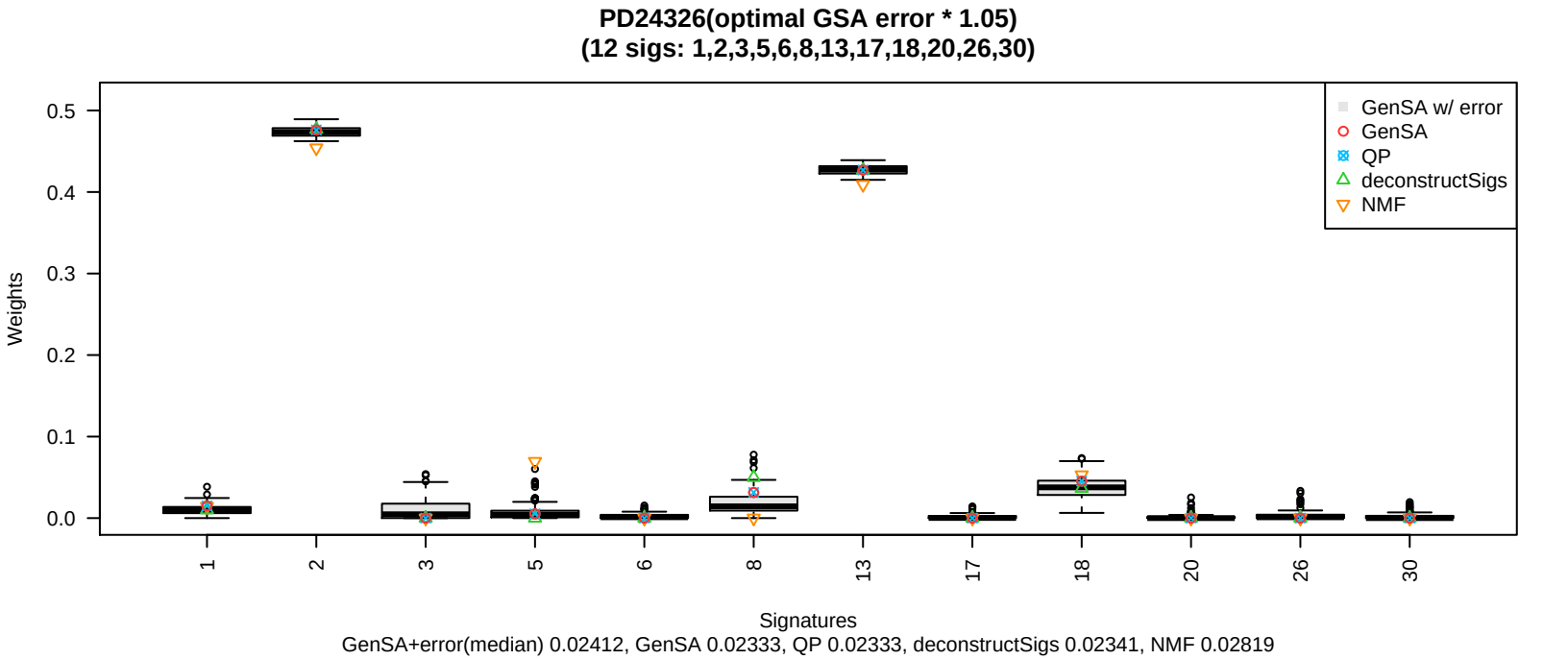
GenSA+error(median) 0.05582, GenSA 0.05428, QP 0.05428, deconstructSigs 0.05433, NMF 0.06109



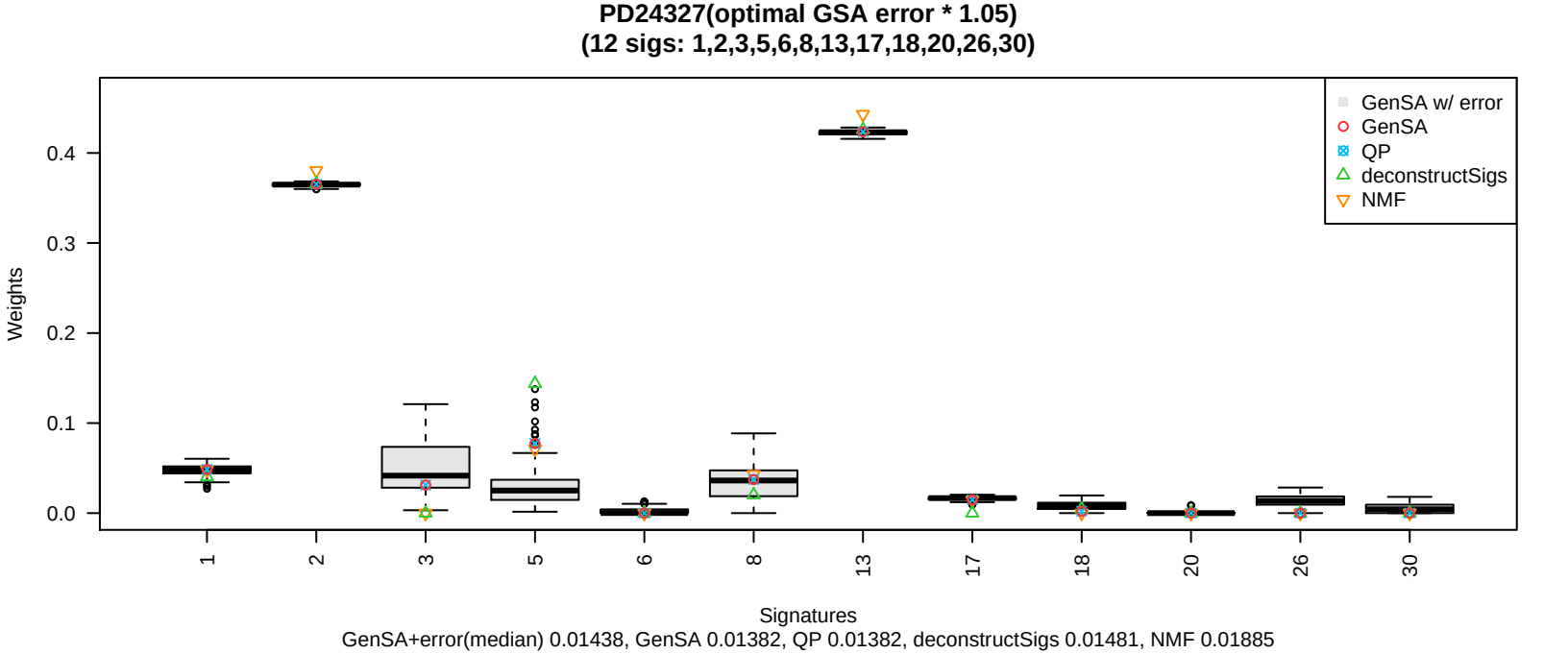
GenSA+error(median) 0.02422, GenSA 0.02318, QP 0.02318, deconstructSigs 0.02343, NMF 0.03784



GenSA+error(median) 0.02438, GenSA 0.02336, QP 0.02336, deconstructSigs 0.02357, NMF 0.02451

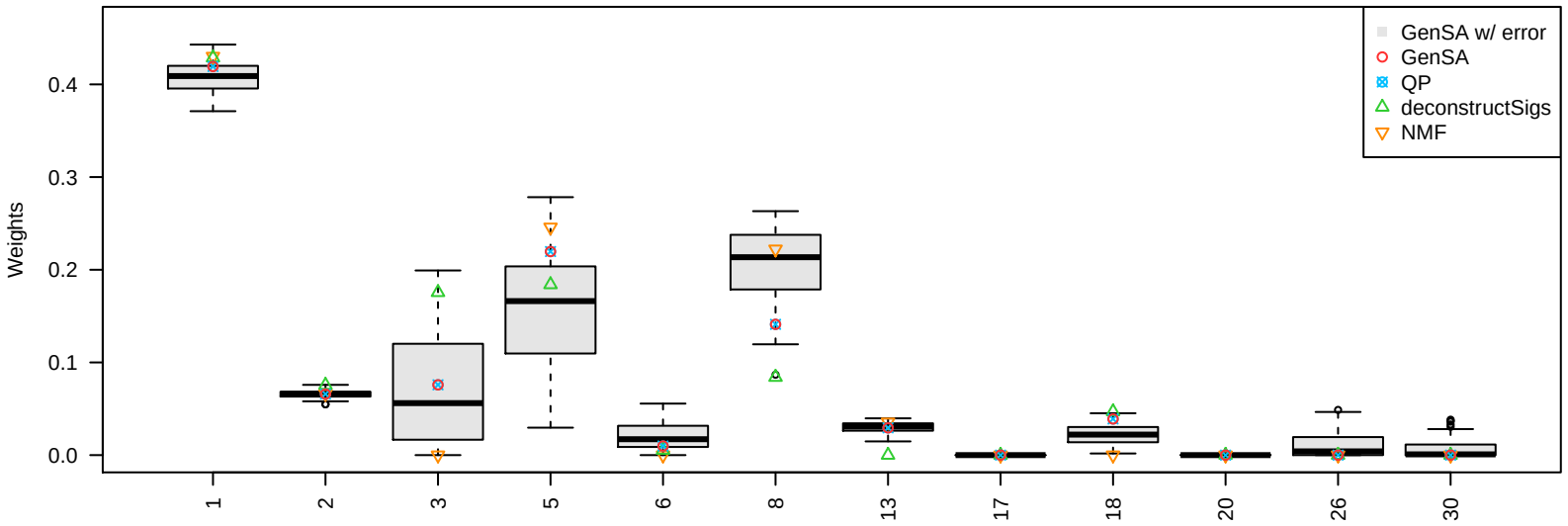


GenSA+error(median) 0.02412, GenSA 0.02333, QP 0.02333, deconstructSigs 0.02341, NMF 0.02819



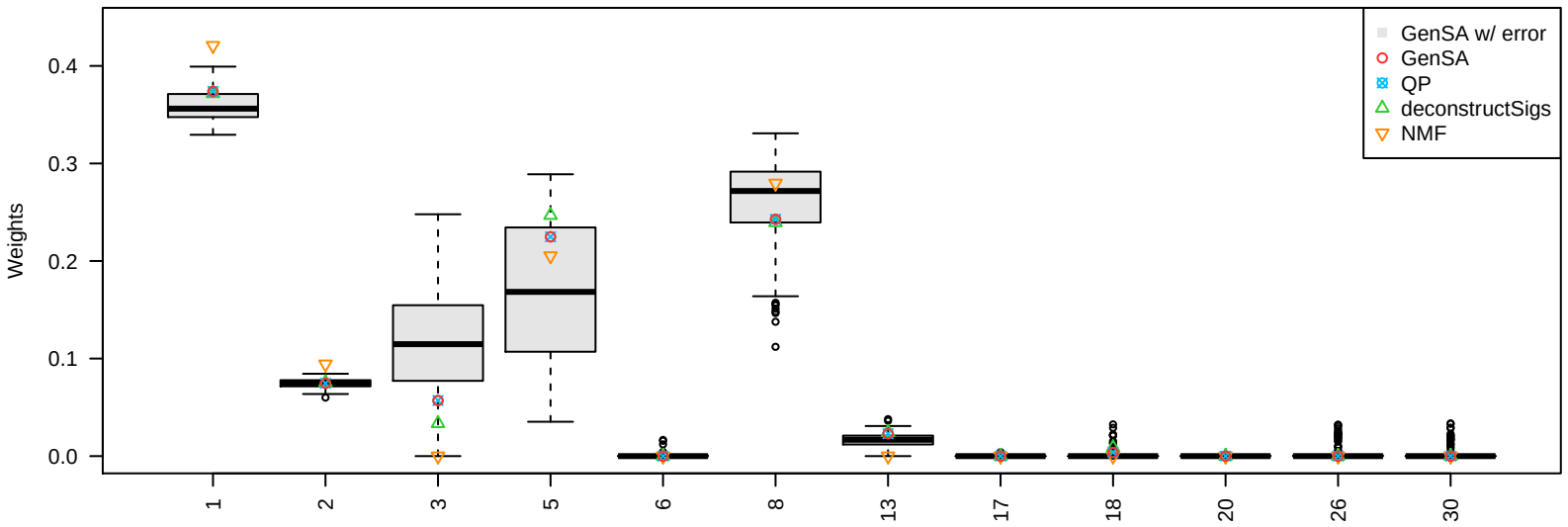
GenSA+error(median) 0.01438, GenSA 0.01382, QP 0.01382, deconstructSigs 0.01481, NMF 0.01885

PD24329(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)



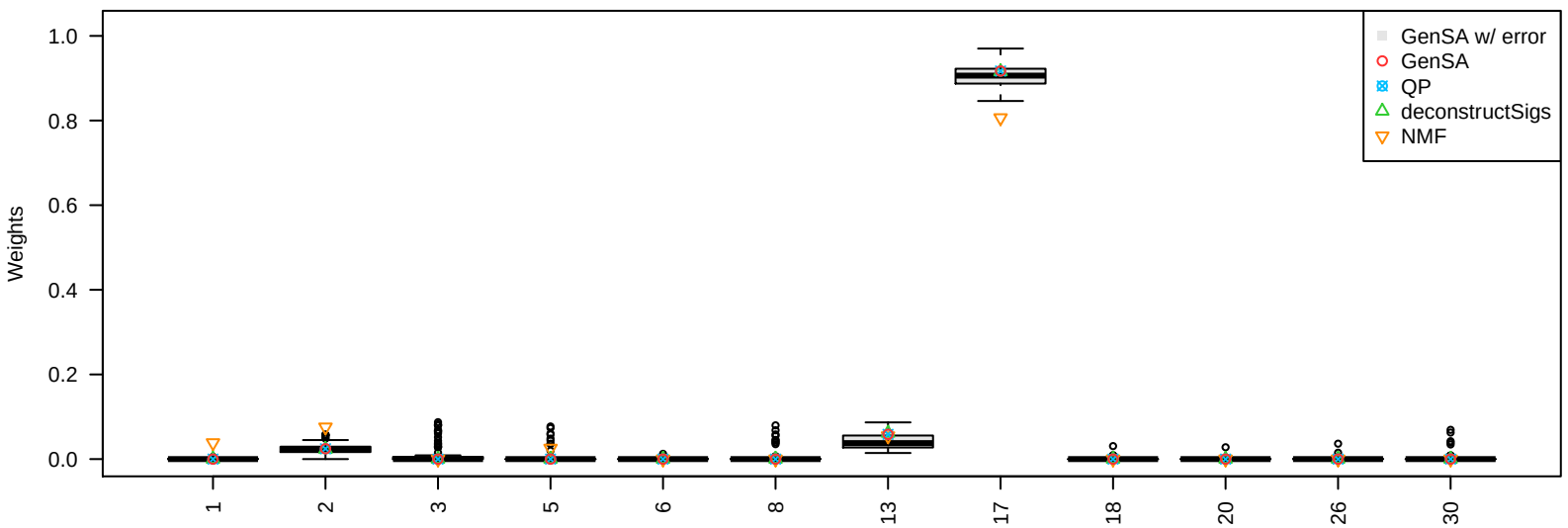
GenSA+error(median) 0.02578, GenSA 0.02476, QP 0.02476, deconstructSigs 0.02688, NMF 0.02593

PD24332(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)

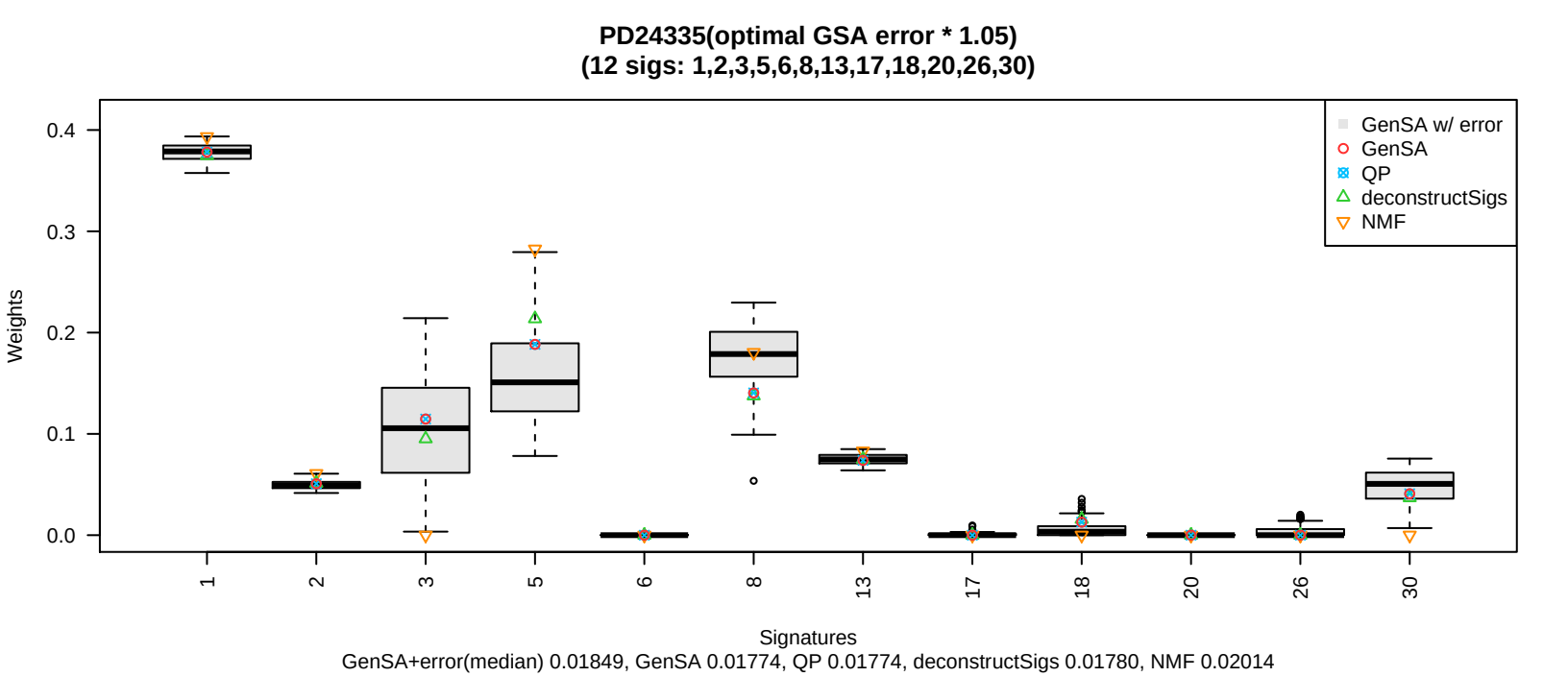


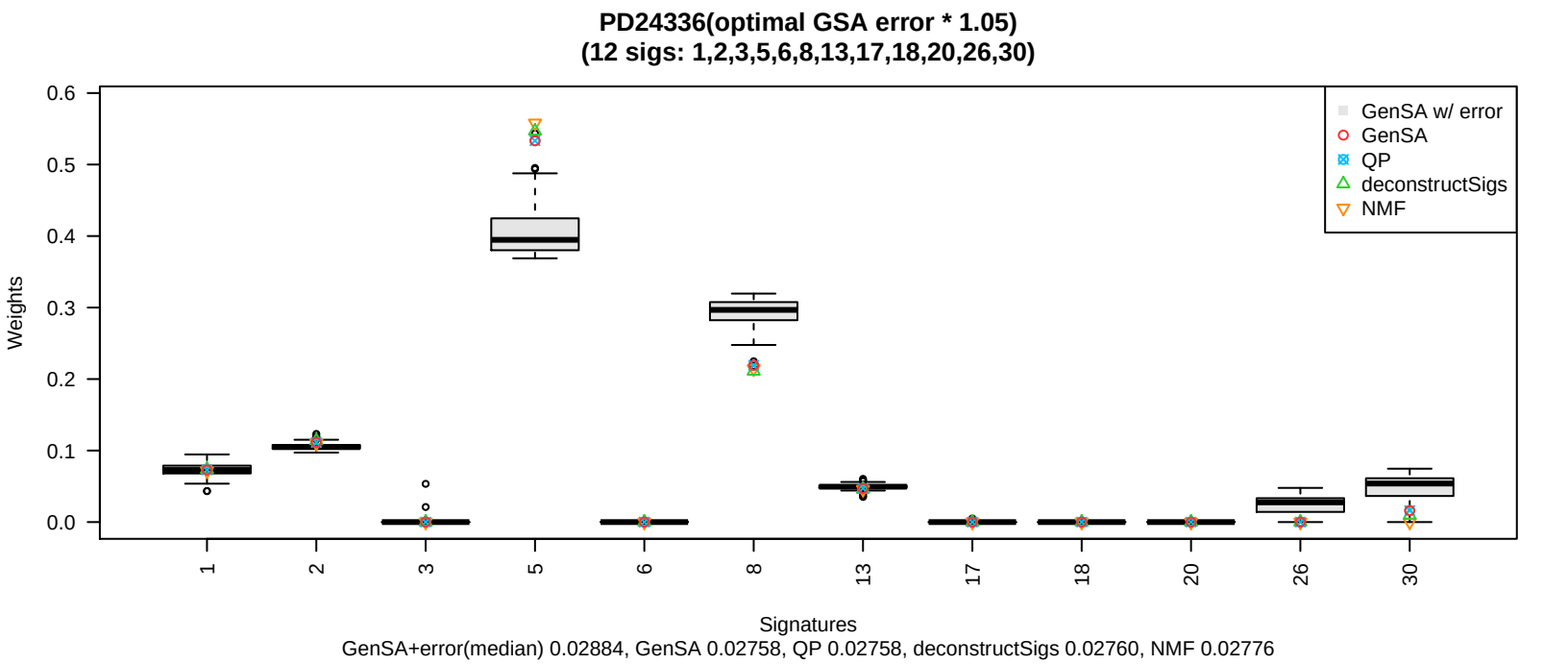
GenSA+error(median) 0.03356, GenSA 0.03224, QP 0.03224, deconstructSigs 0.03229, NMF 0.03668

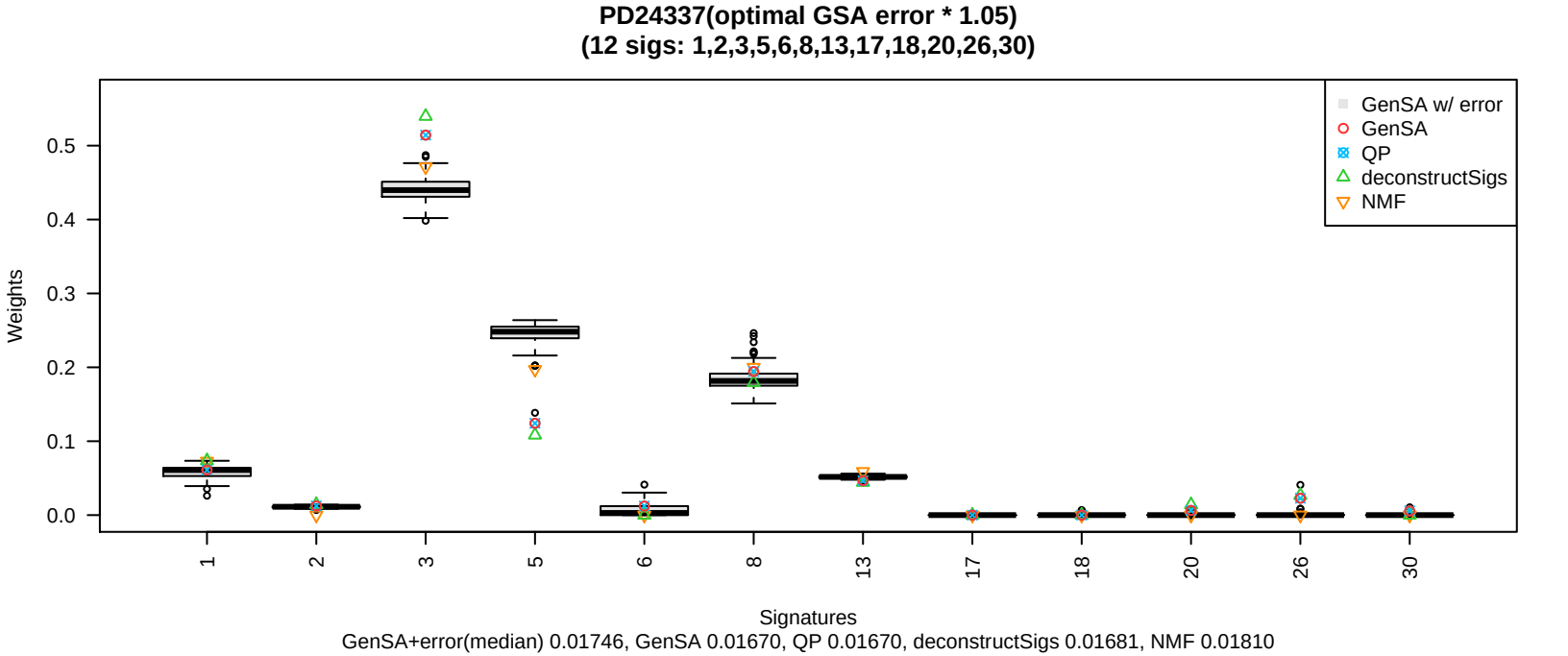
PD24333(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)

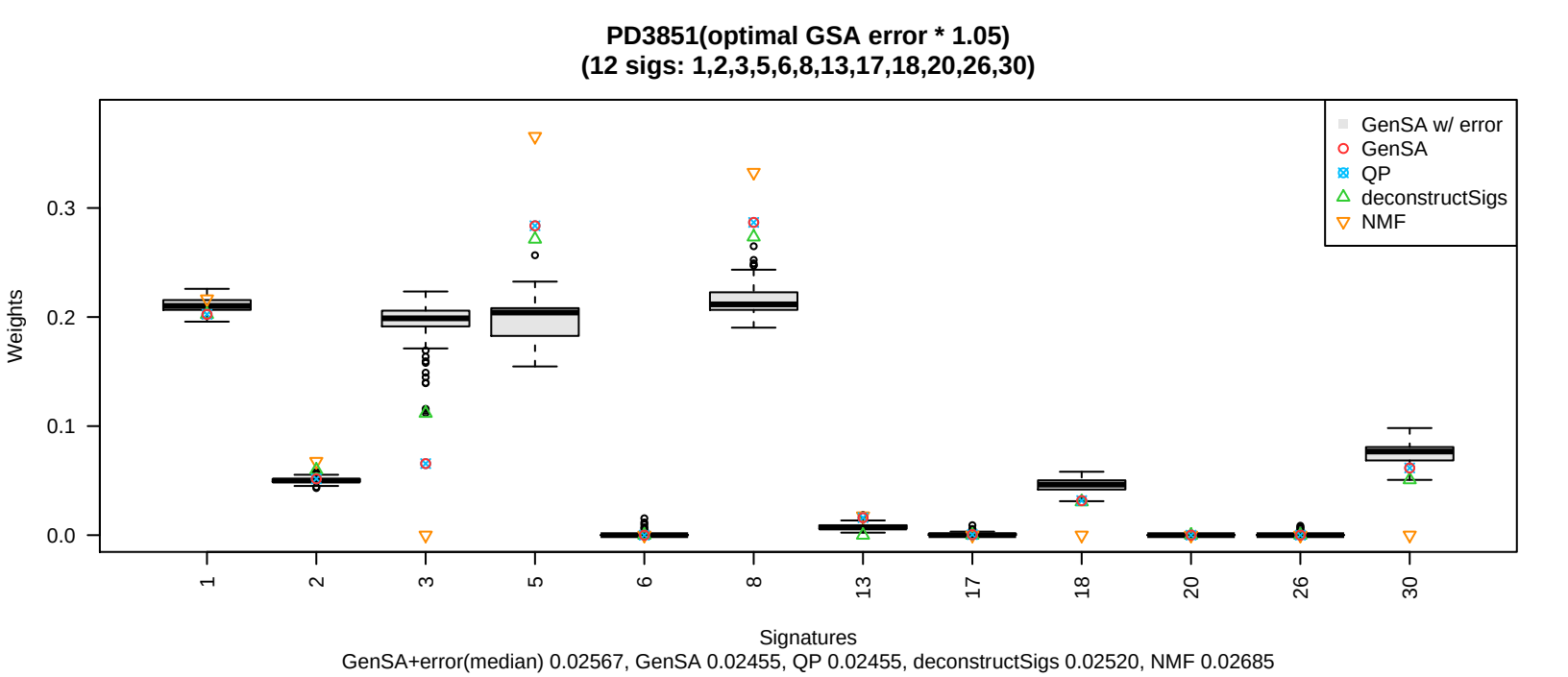


GenSA+error(median) 0.09569, GenSA 0.09352, QP 0.09352, deconstructSigs 0.09352, NMF 0.10413

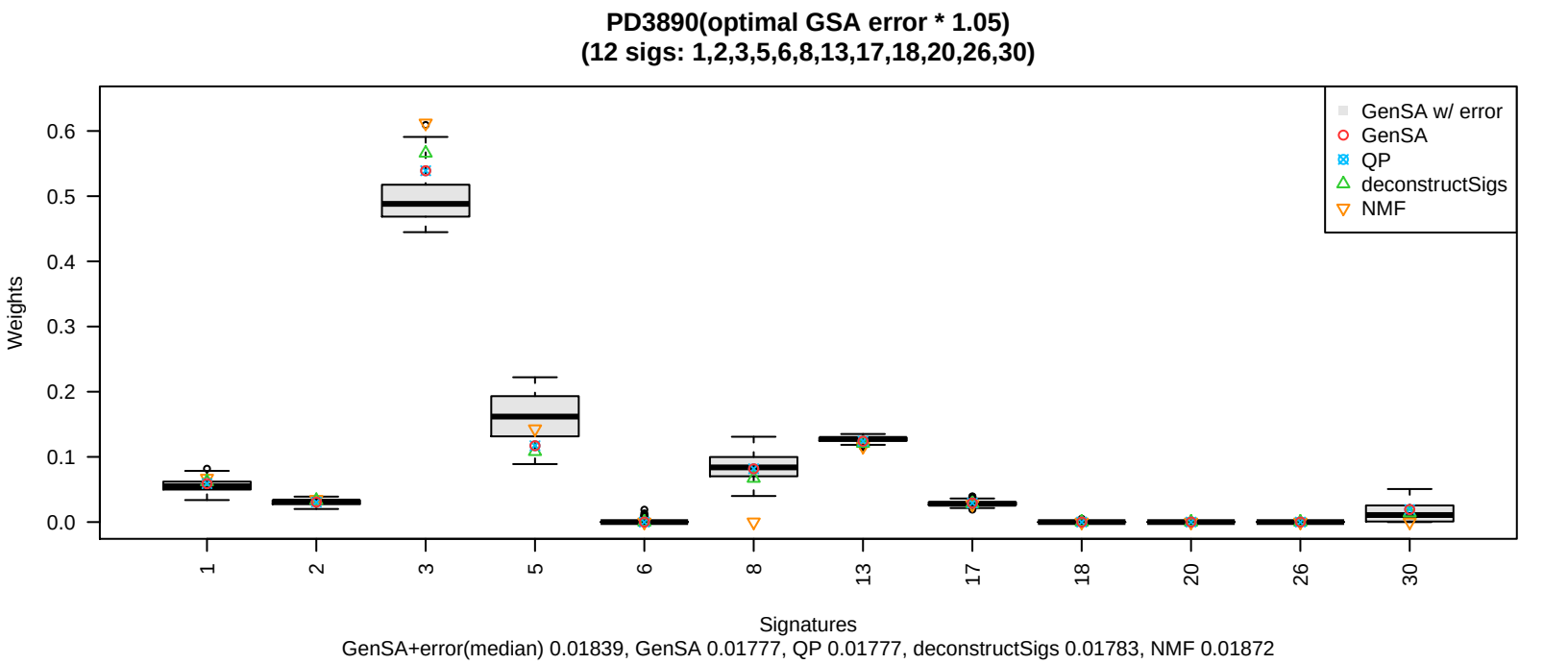

PD24335(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01849, GenSA 0.01774, QP 0.01774, deconstructSigs 0.01780, NMF 0.02014


PD24336(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02884, GenSA 0.02758, QP 0.02758, deconstructSigs 0.02760, NMF 0.02776

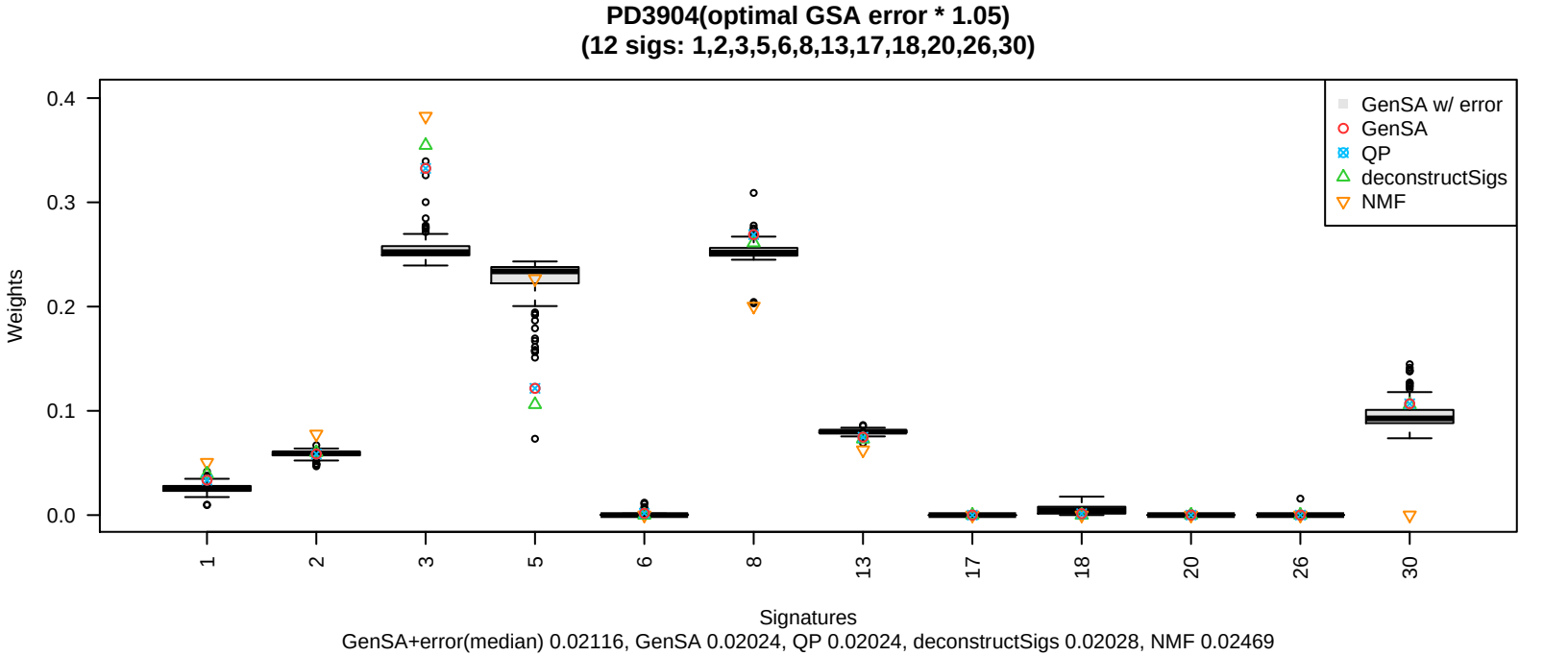

PD24337(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01746, GenSA 0.01670, QP 0.01670, deconstructSigs 0.01681, NMF 0.01810



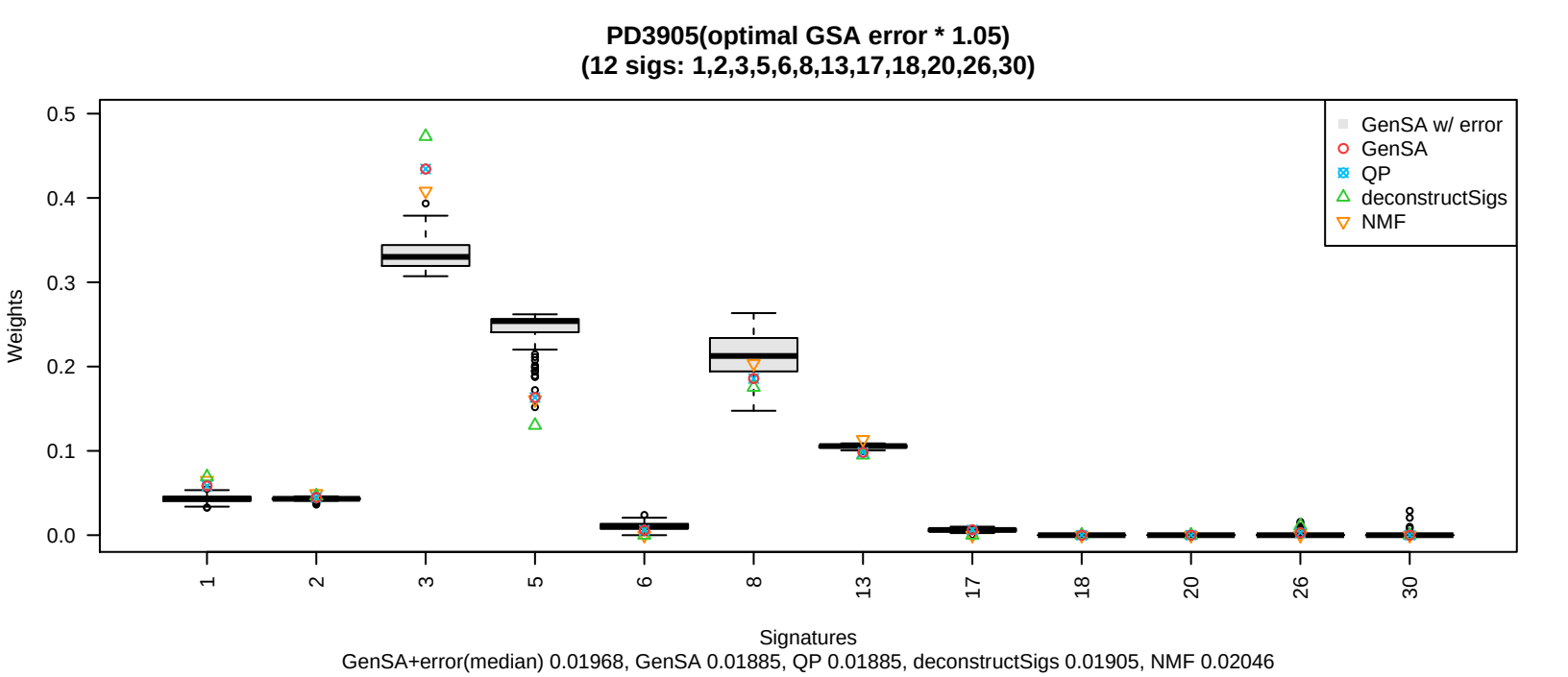
GenSA+error(median) 0.02567, GenSA 0.02455, QP 0.02455, deconstructSigs 0.02520, NMF 0.02685



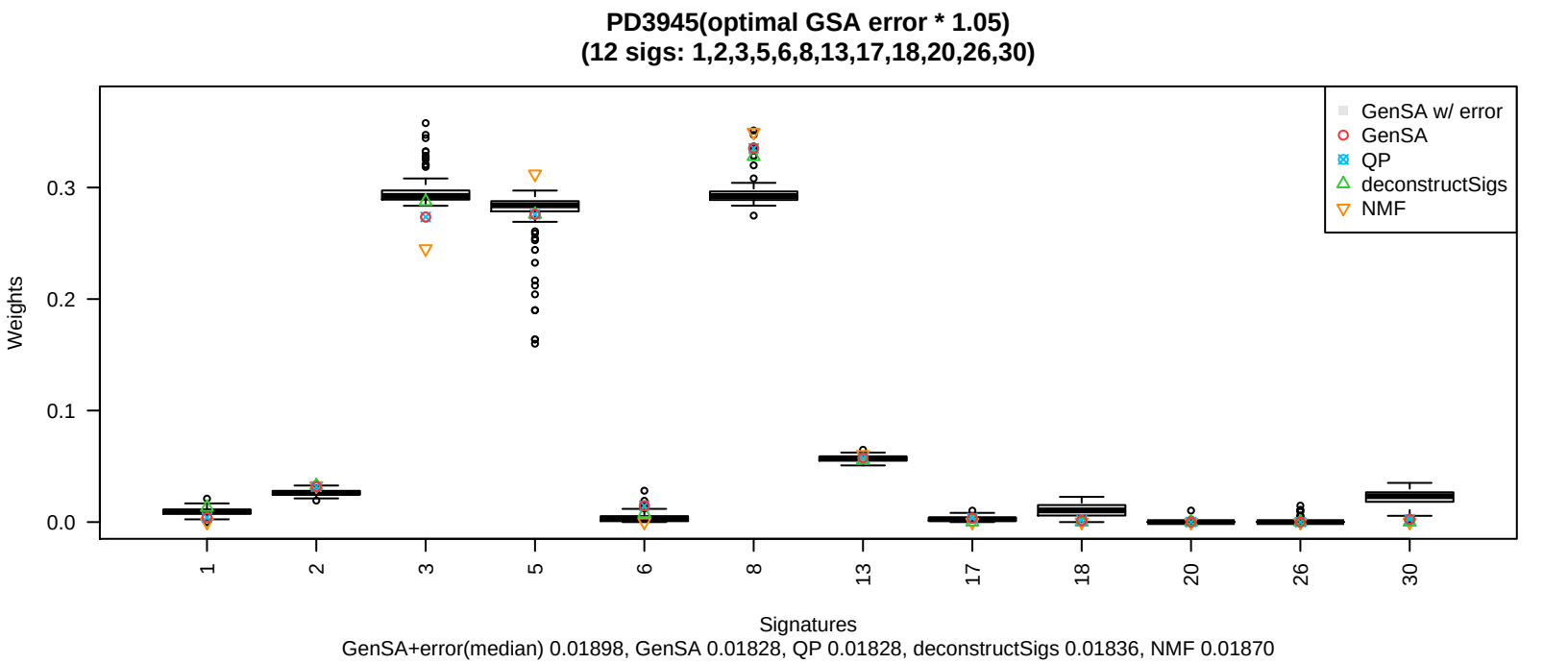
GenSA+error(median) 0.01839, GenSA 0.01777, QP 0.01777, deconstructSigs 0.01783, NMF 0.01872



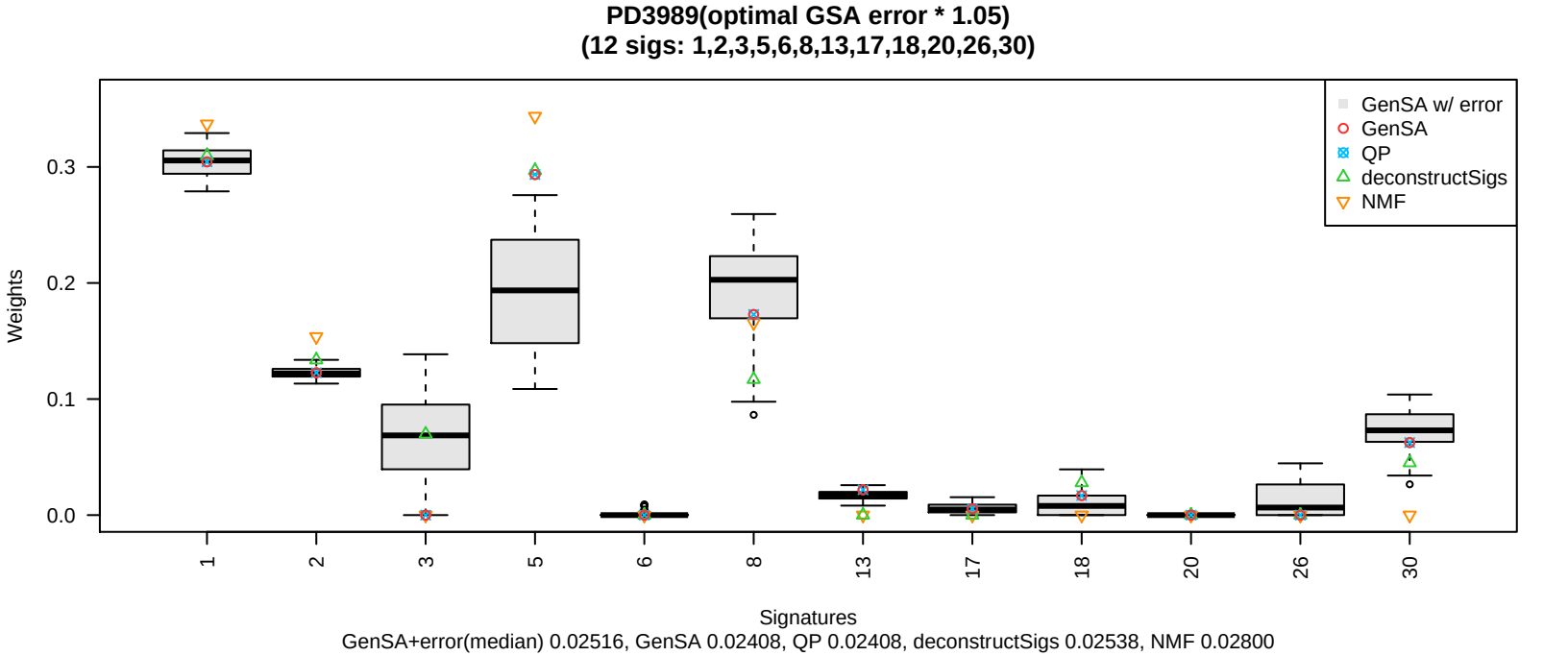
GenSA+error(median) 0.02116, GenSA 0.02024, QP 0.02024, deconstructSigs 0.02028, NMF 0.02469



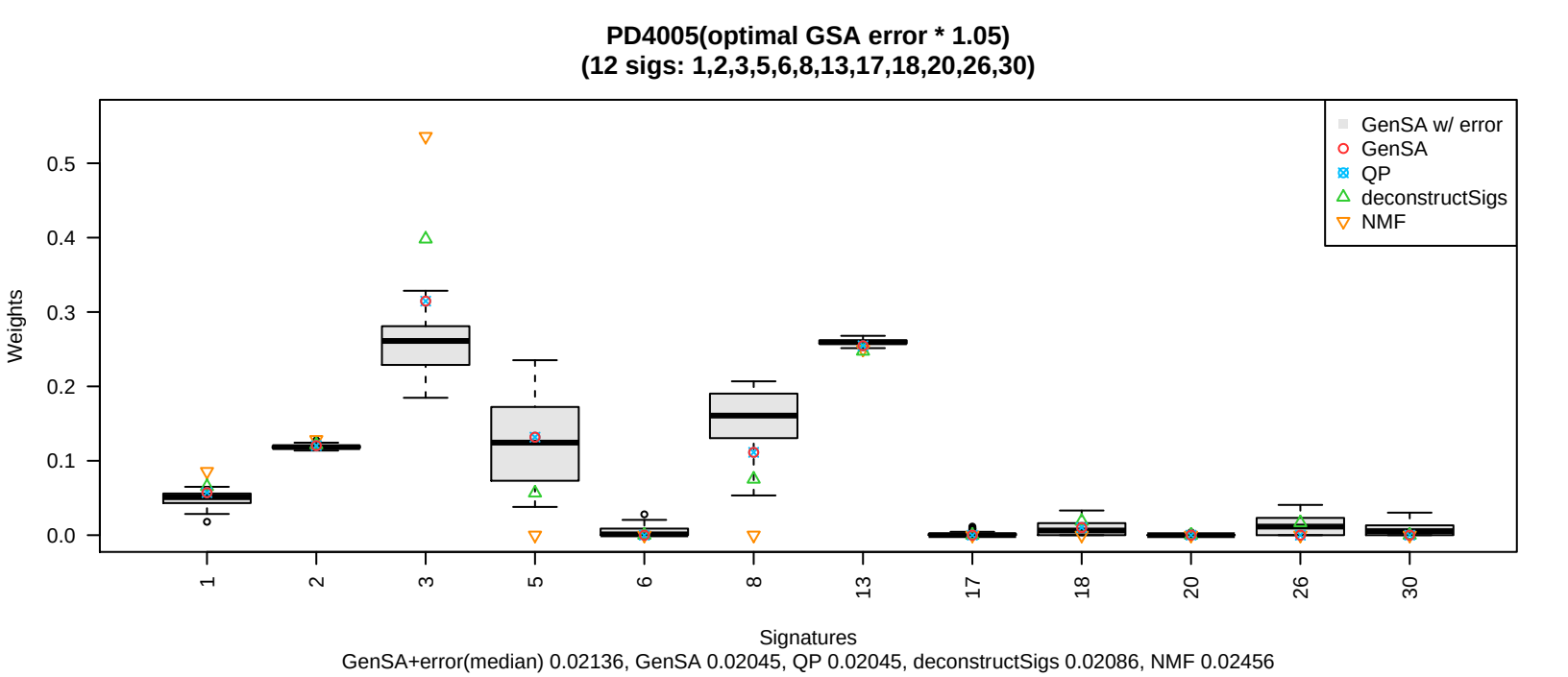
GenSA+error(median) 0.01968, GenSA 0.01885, QP 0.01885, deconstructSigs 0.01905, NMF 0.02046



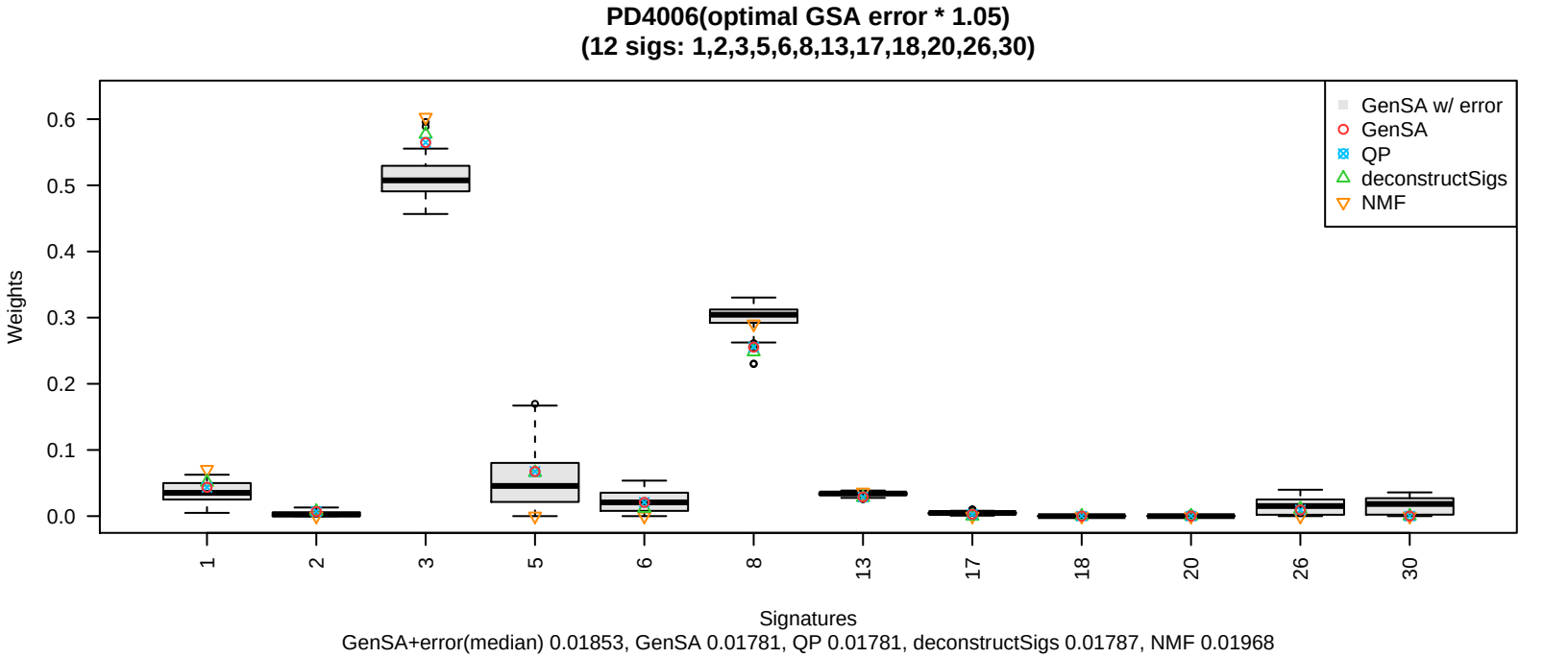
GenSA+error(median) 0.01898, GenSA 0.01828, QP 0.01828, deconstructSigs 0.01836, NMF 0.01870



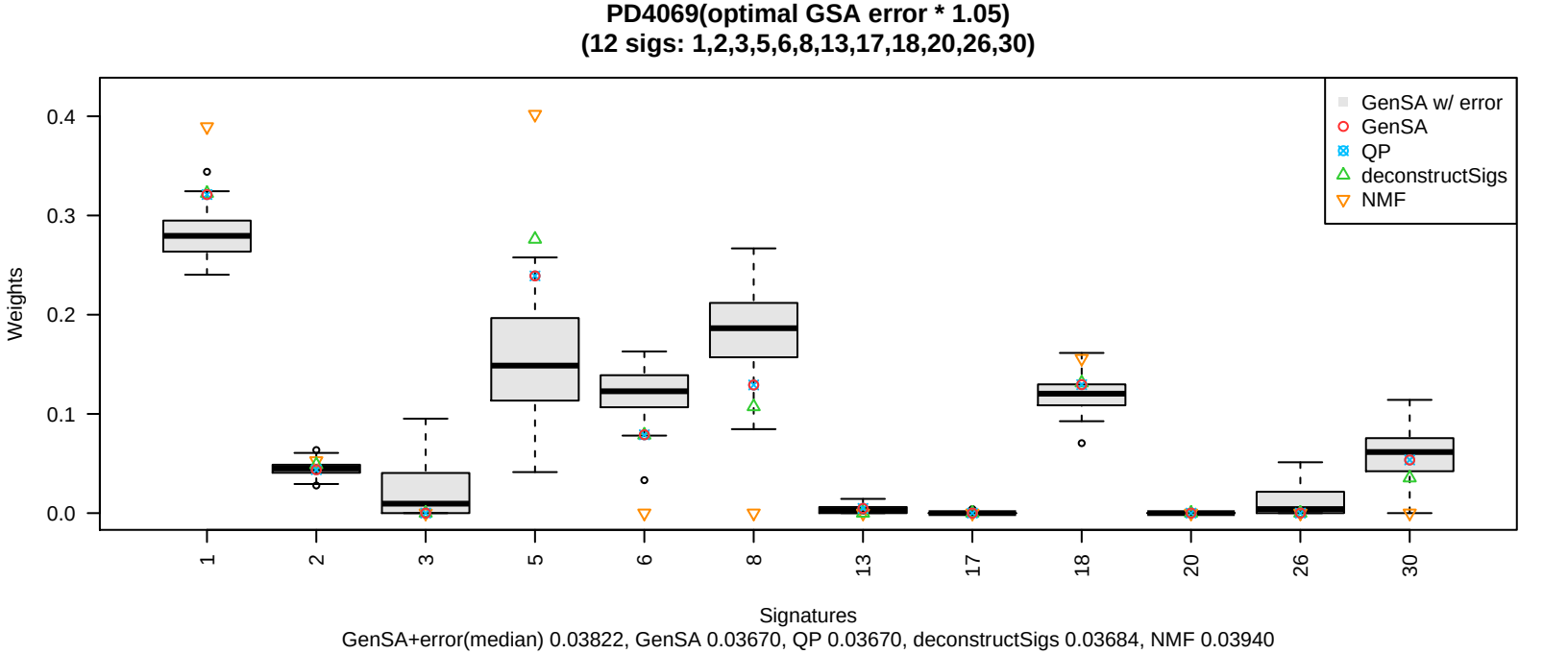
GenSA+error(median) 0.02516, GenSA 0.02408, QP 0.02408, deconstructSigs 0.02538, NMF 0.02800



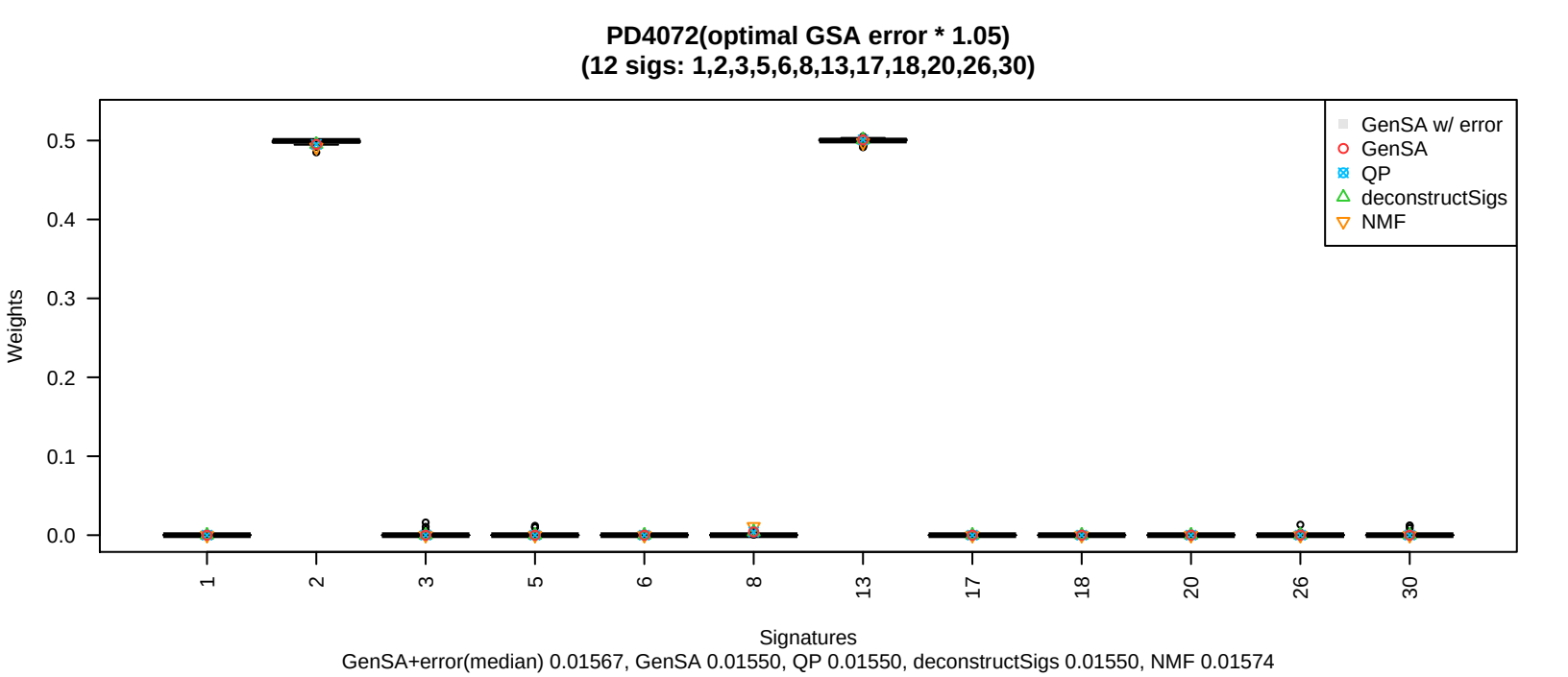
GenSA+error(median) 0.02136, GenSA 0.02045, QP 0.02045, deconstructSigs 0.02086, NMF 0.02456



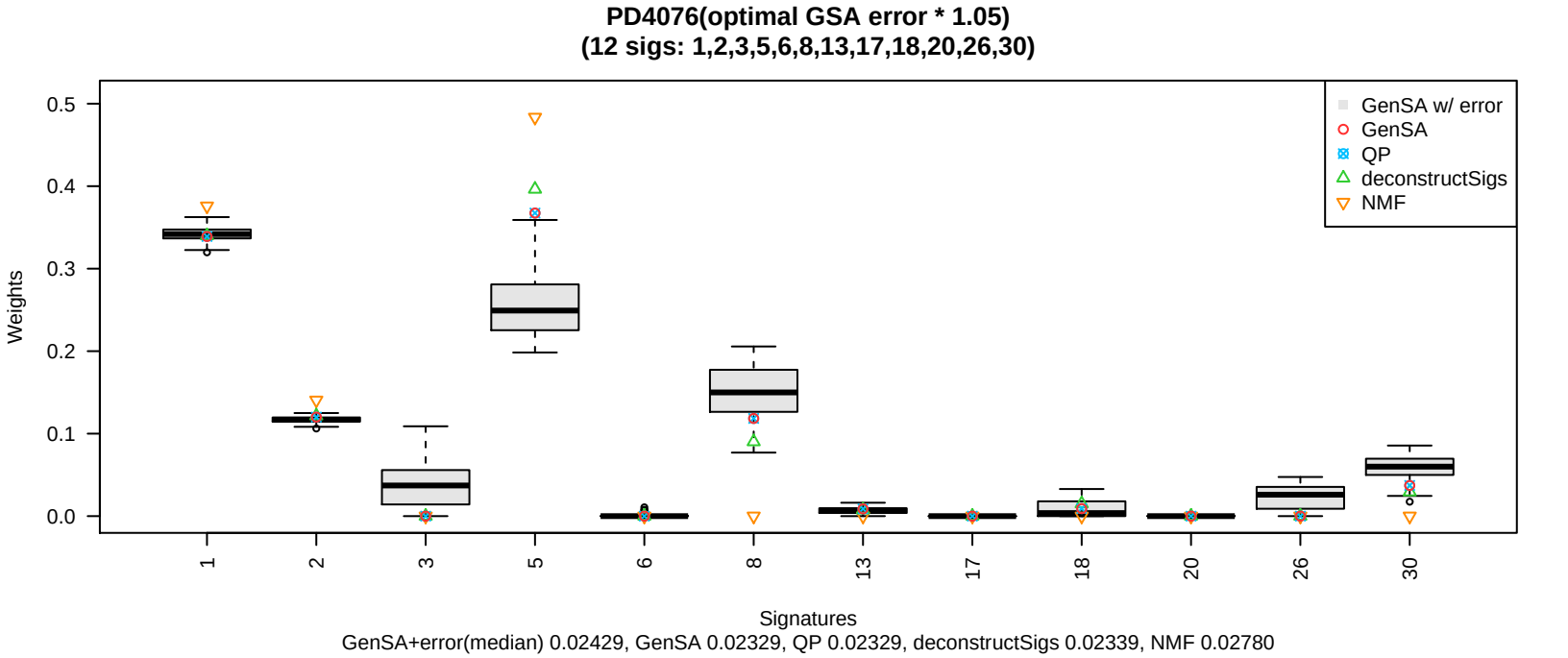
GenSA+error(median) 0.01853, GenSA 0.01781, QP 0.01781, deconstructSigs 0.01787, NMF 0.01968



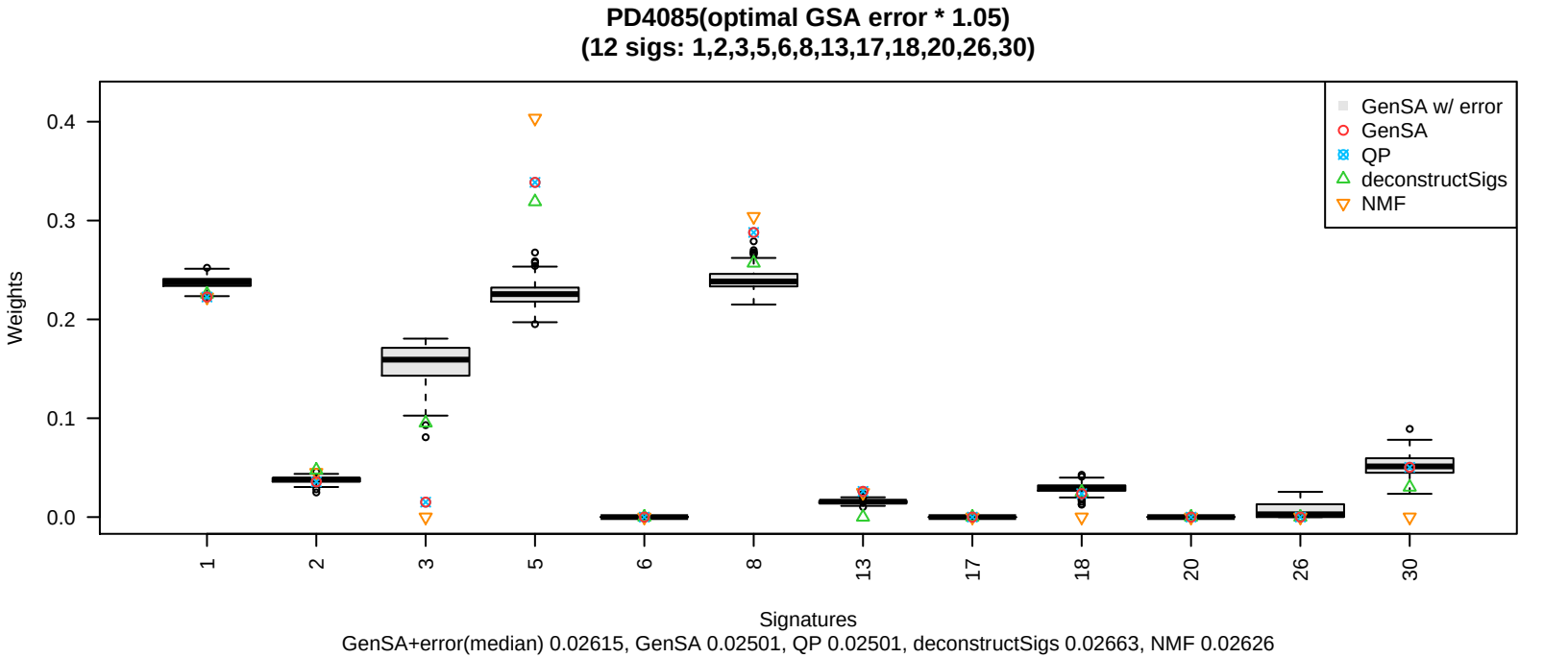
GenSA+error(median) 0.03822, GenSA 0.03670, QP 0.03670, deconstructSigs 0.03684, NMF 0.03940



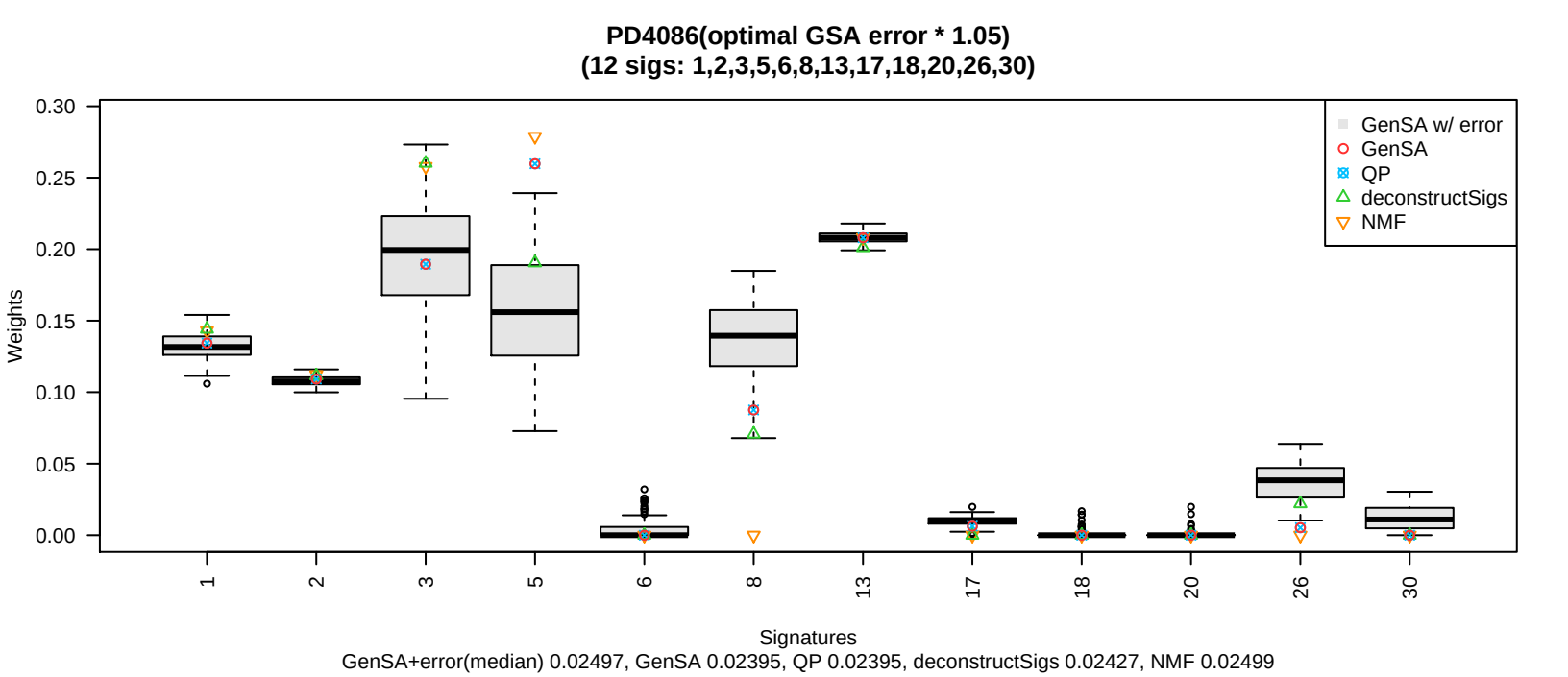
GenSA+error(median) 0.01567, GenSA 0.01550, QP 0.01550, deconstructSigs 0.01550, NMF 0.01574



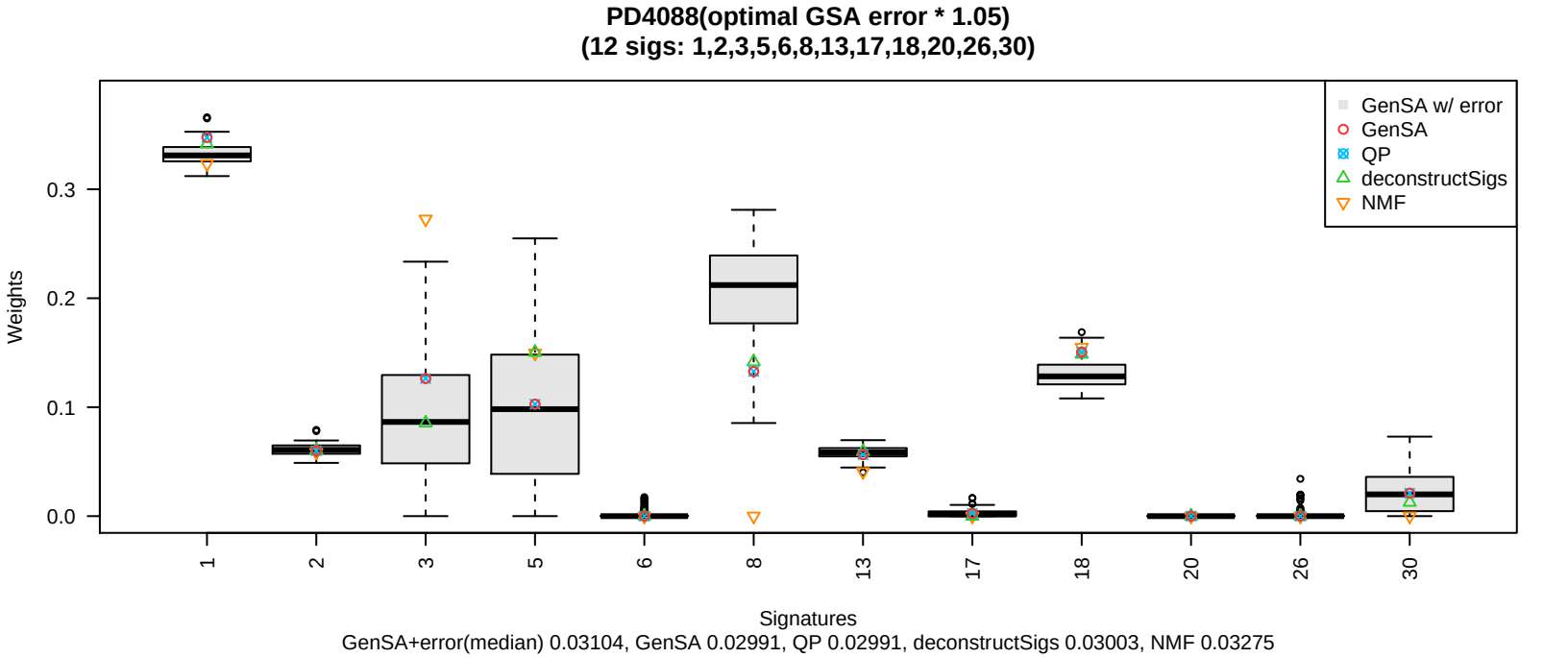
GenSA+error(median) 0.02429, GenSA 0.02329, QP 0.02329, deconstructSigs 0.02339, NMF 0.02780



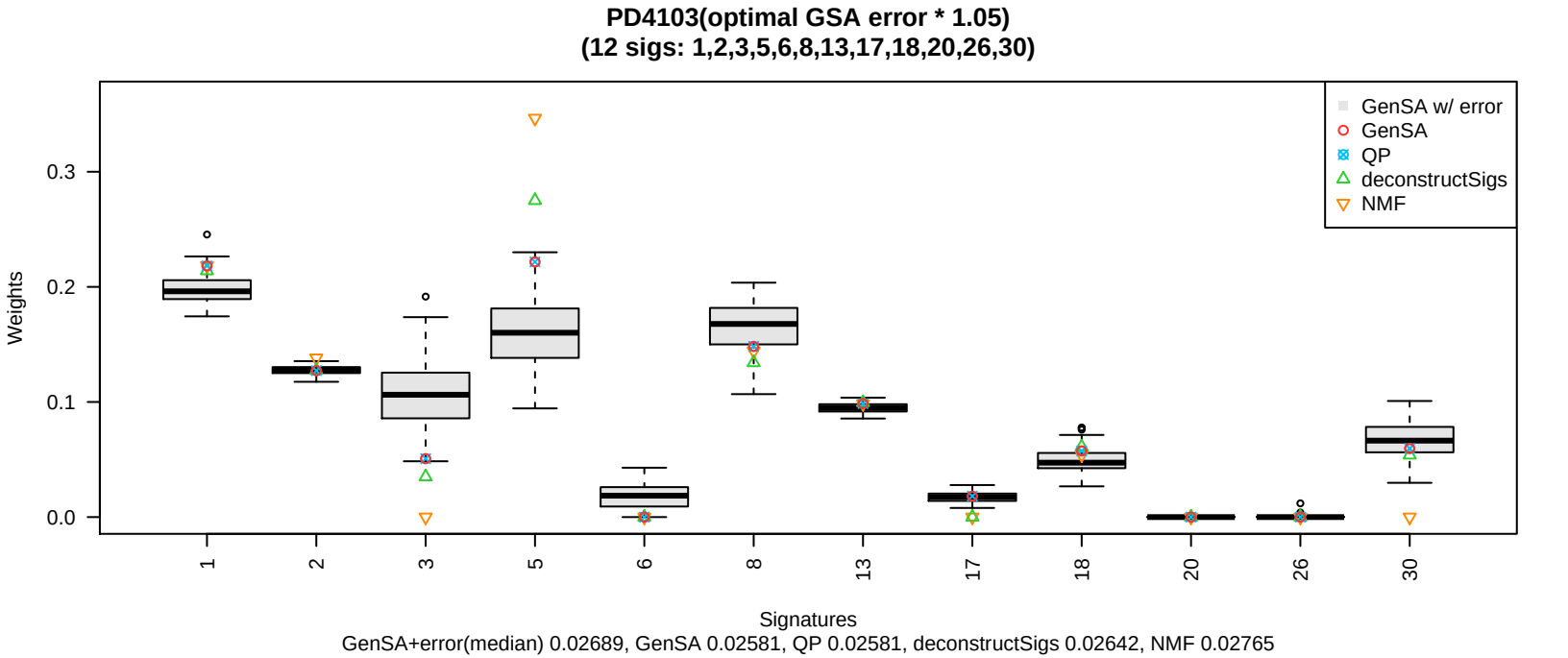
GenSA+error(median) 0.02615, GenSA 0.02501, QP 0.02501, deconstructSigs 0.02663, NMF 0.02626



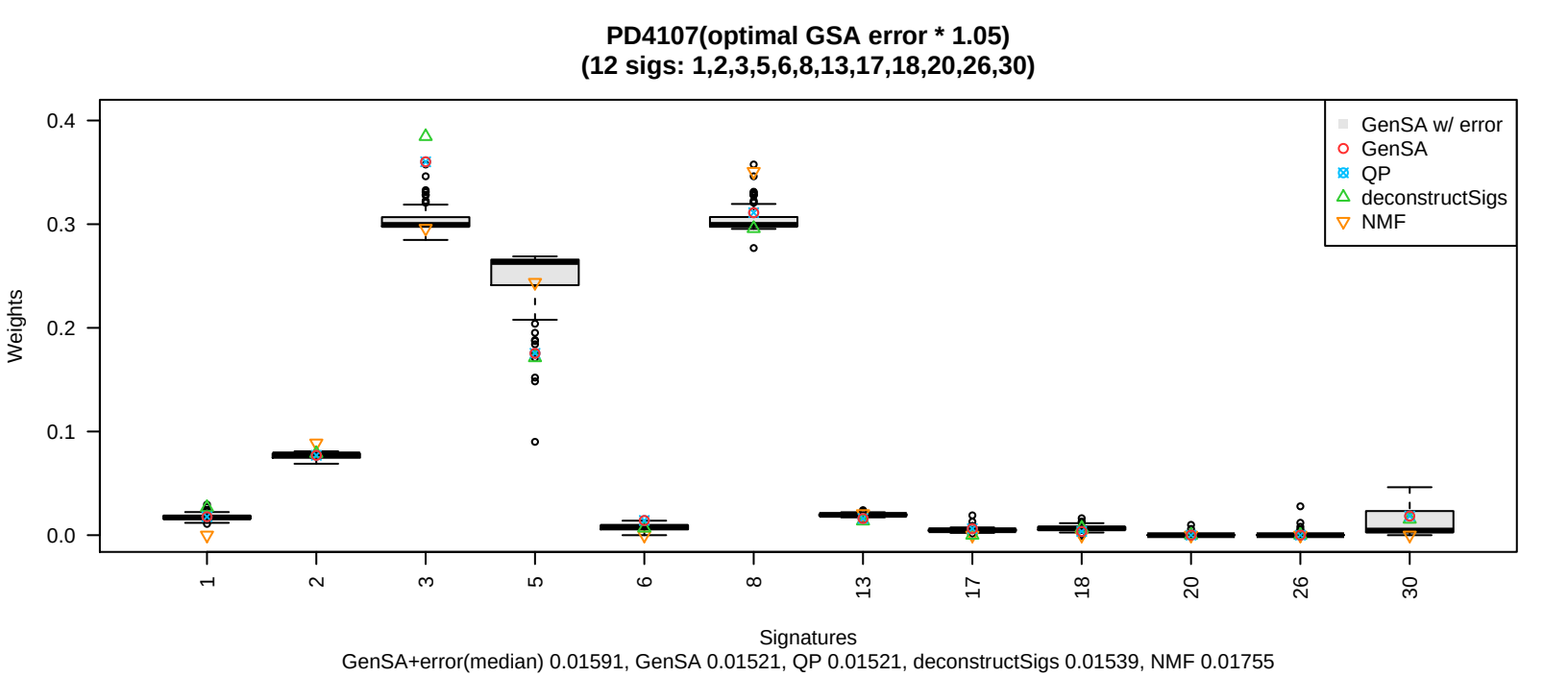
GenSA+error(median) 0.02497, GenSA 0.02395, QP 0.02395, deconstructSigs 0.02427, NMF 0.02499



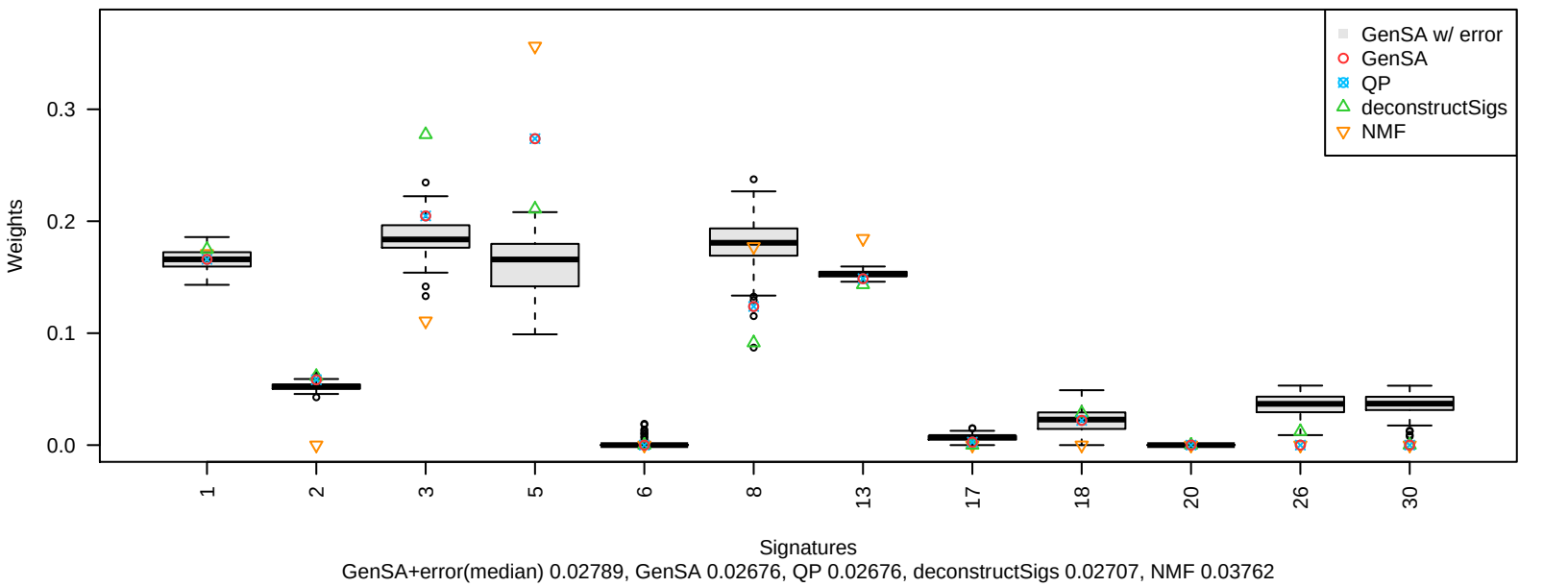
GenSA+error(median) 0.03104, GenSA 0.02991, QP 0.02991, deconstructSigs 0.03003, NMF 0.03275



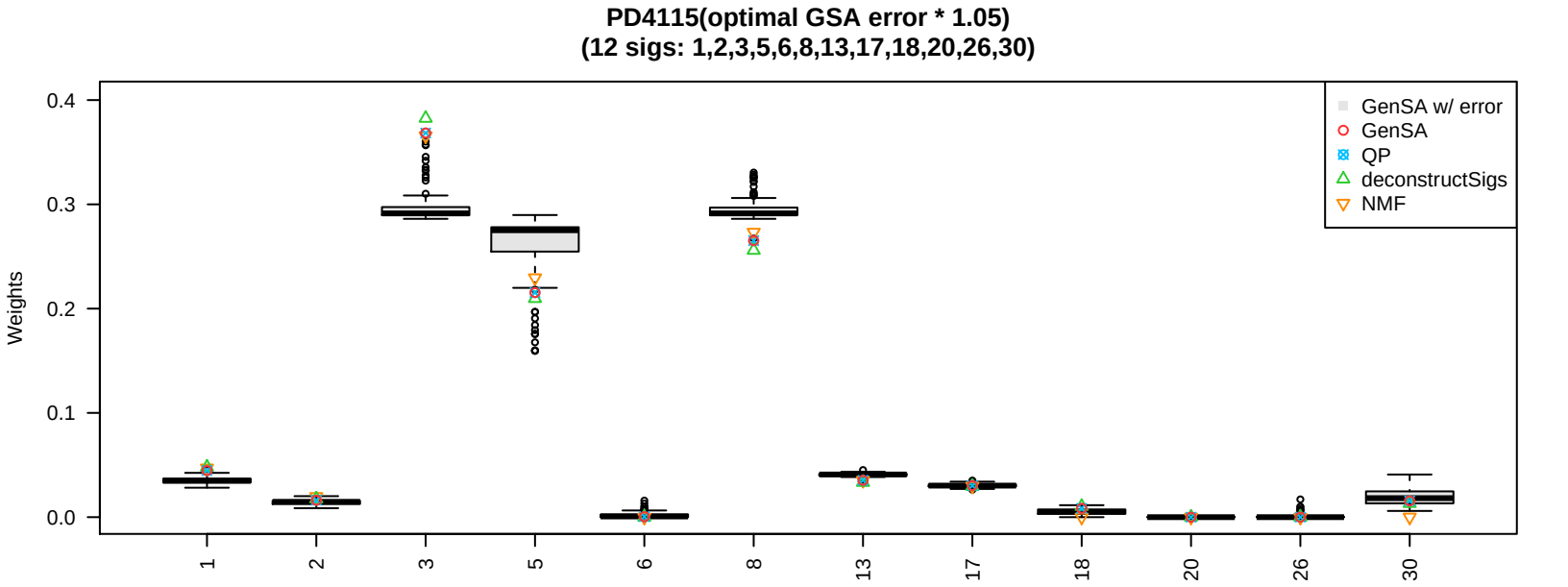
GenSA+error(median) 0.02689, GenSA 0.02581, QP 0.02581, deconstructSigs 0.02642, NMF 0.02765



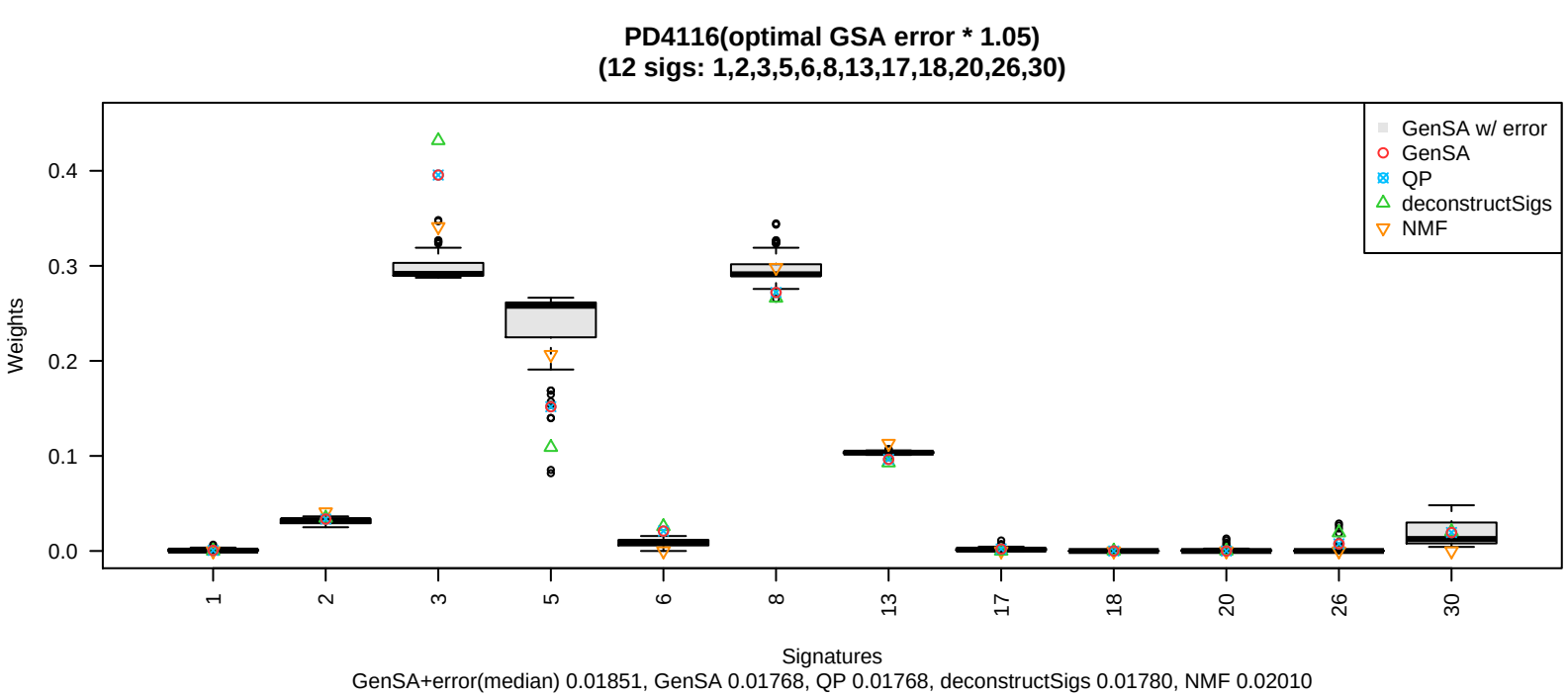
GenSA+error(median) 0.01591, GenSA 0.01521, QP 0.01521, deconstructSigs 0.01539, NMF 0.01755

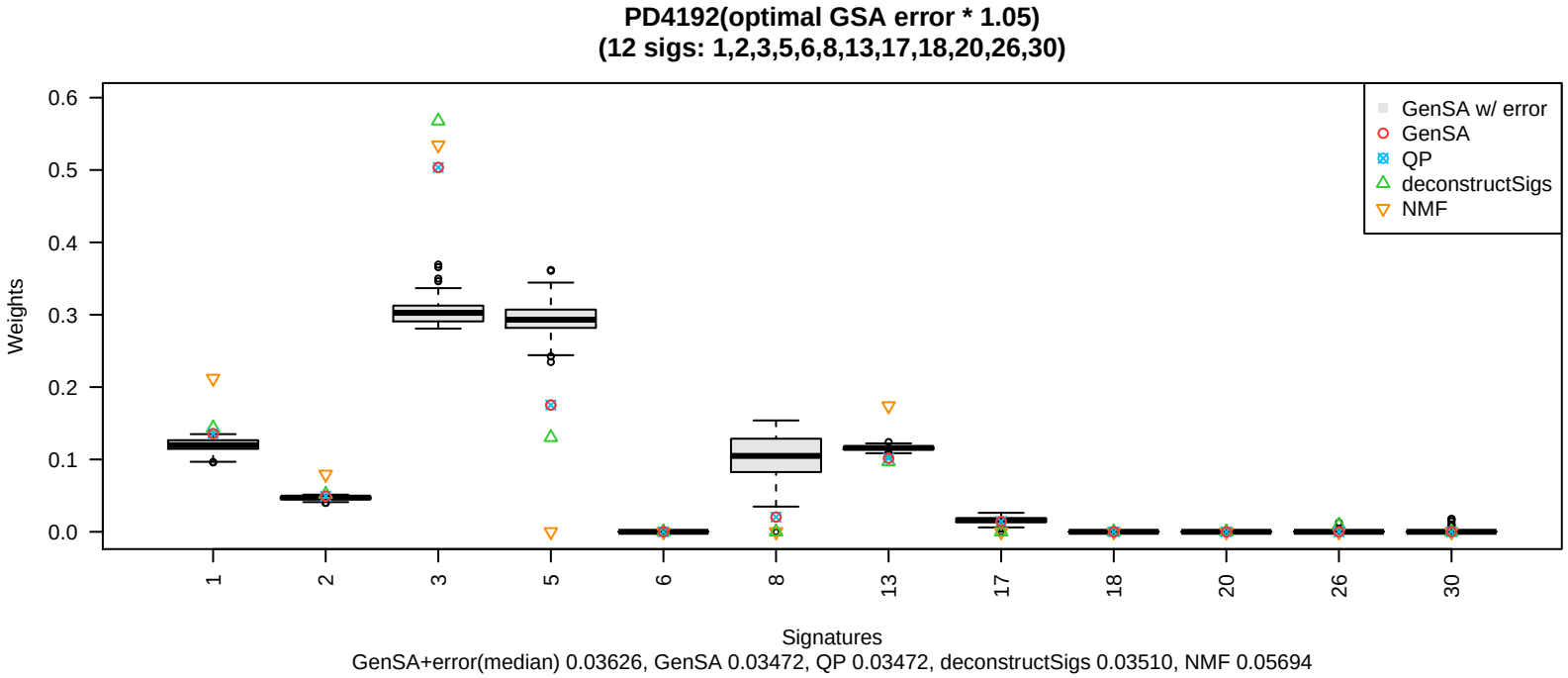


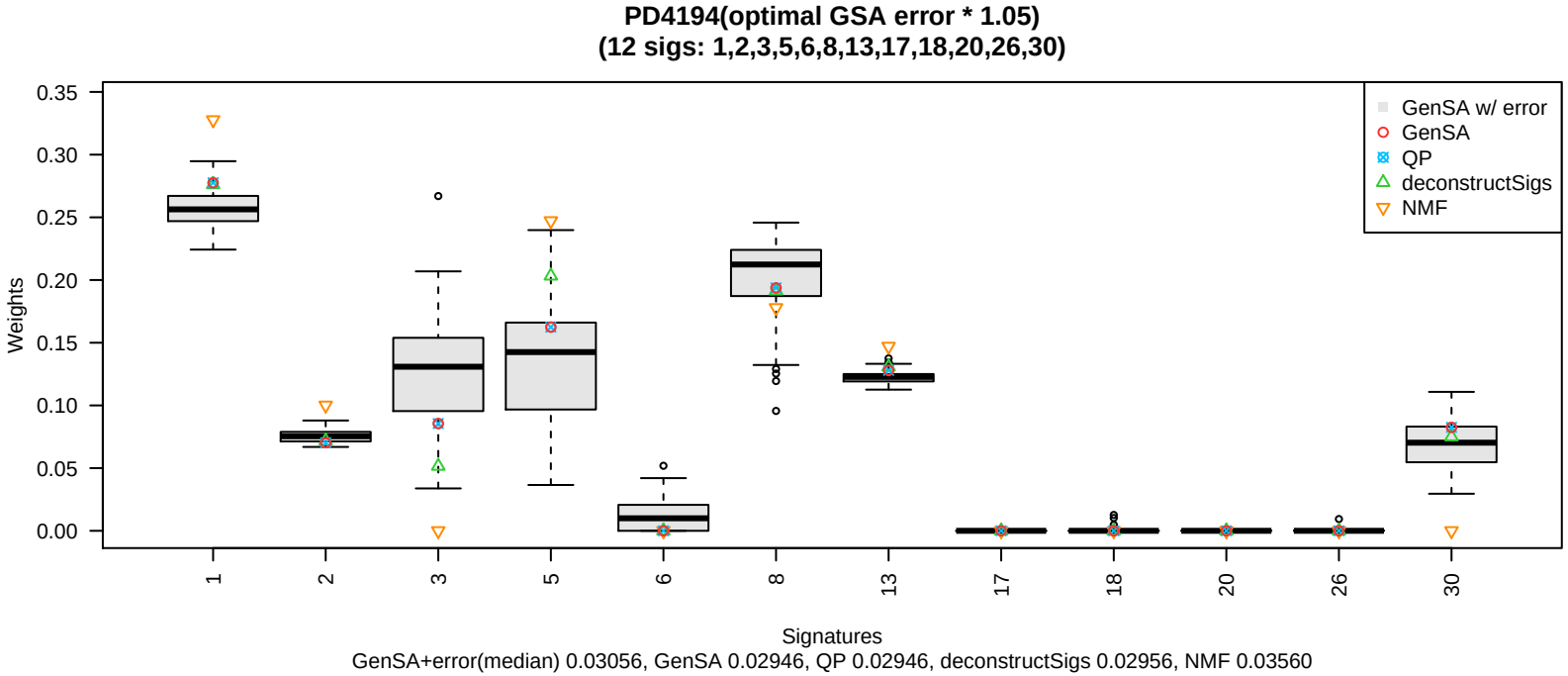
GenSA+error(median) 0.02789, GenSA 0.02676, QP 0.02676, deconstructSigs 0.02707, NMF 0.03762

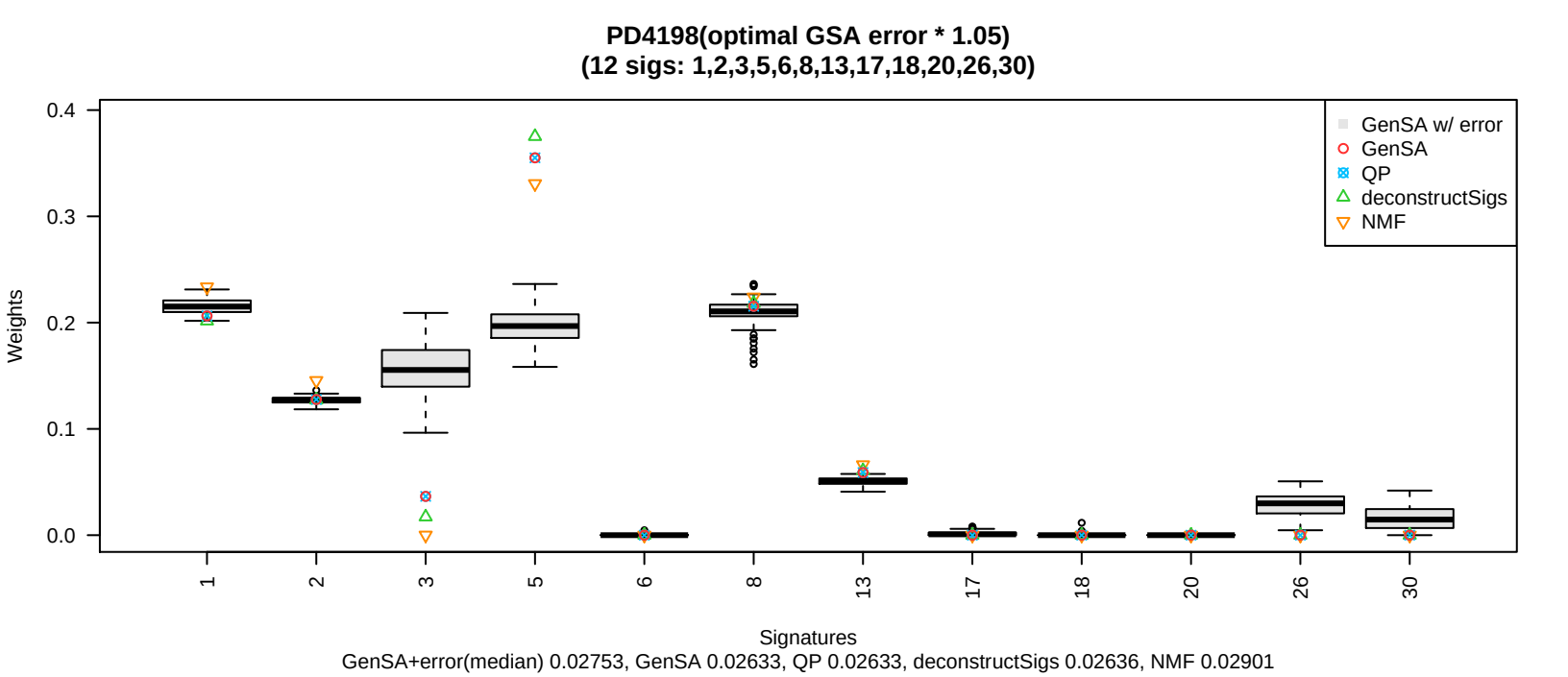


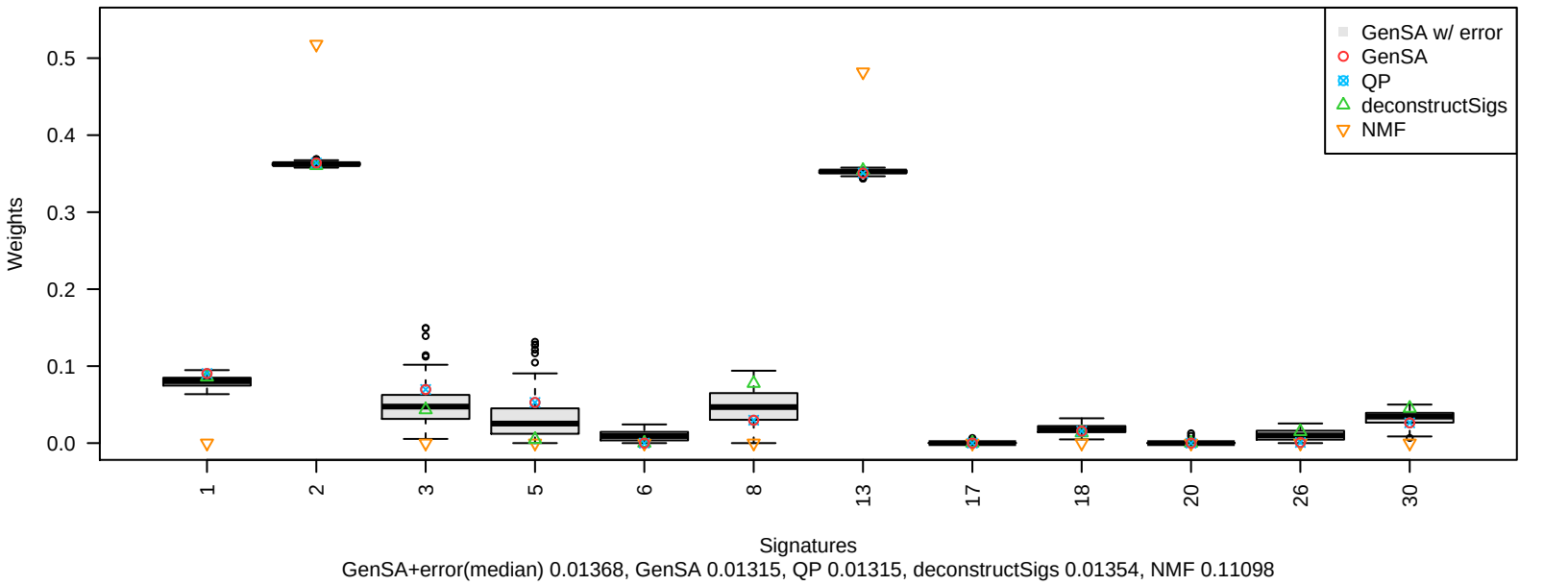
GenSA+error(median) 0.01398, GenSA 0.01338, QP 0.01338, deconstructSigs 0.01341, NMF 0.01362

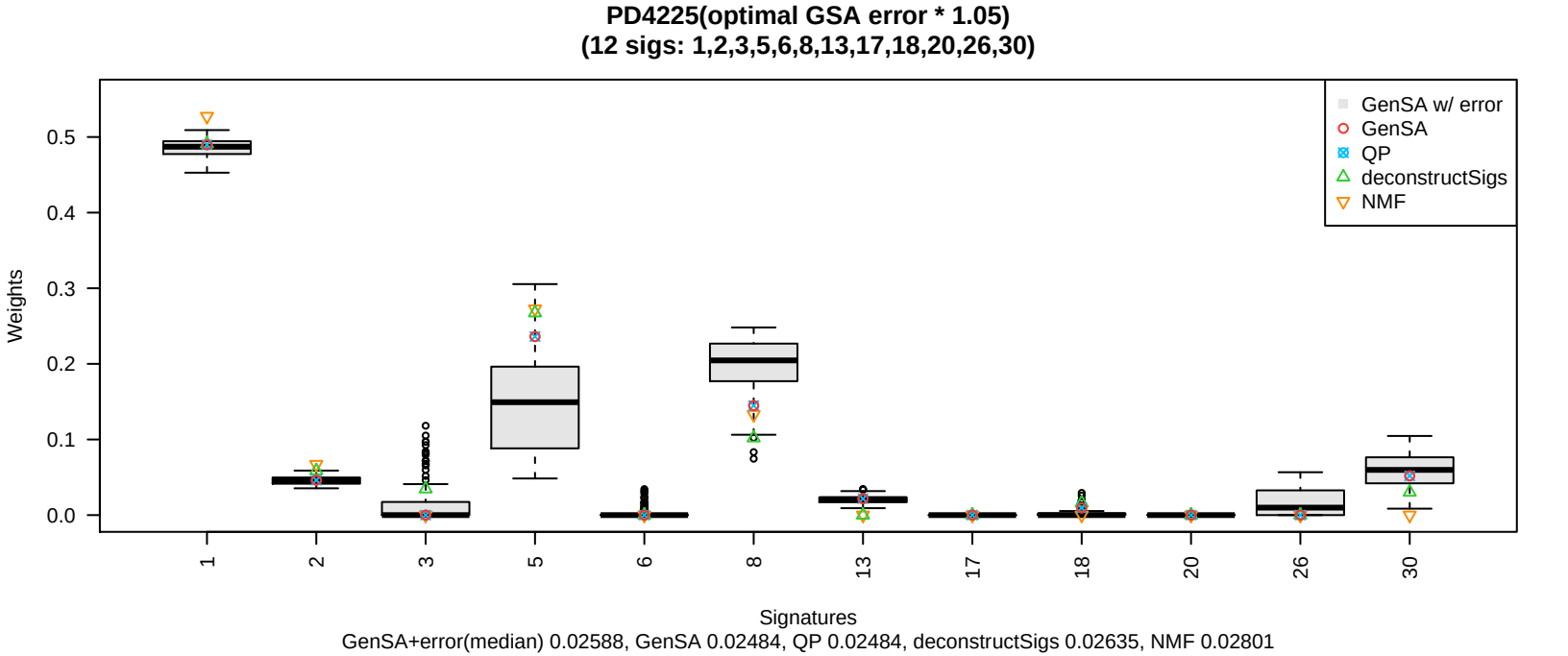

PD4116(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01851, GenSA 0.01768, QP 0.01768, deconstructSigs 0.01780, NMF 0.02010

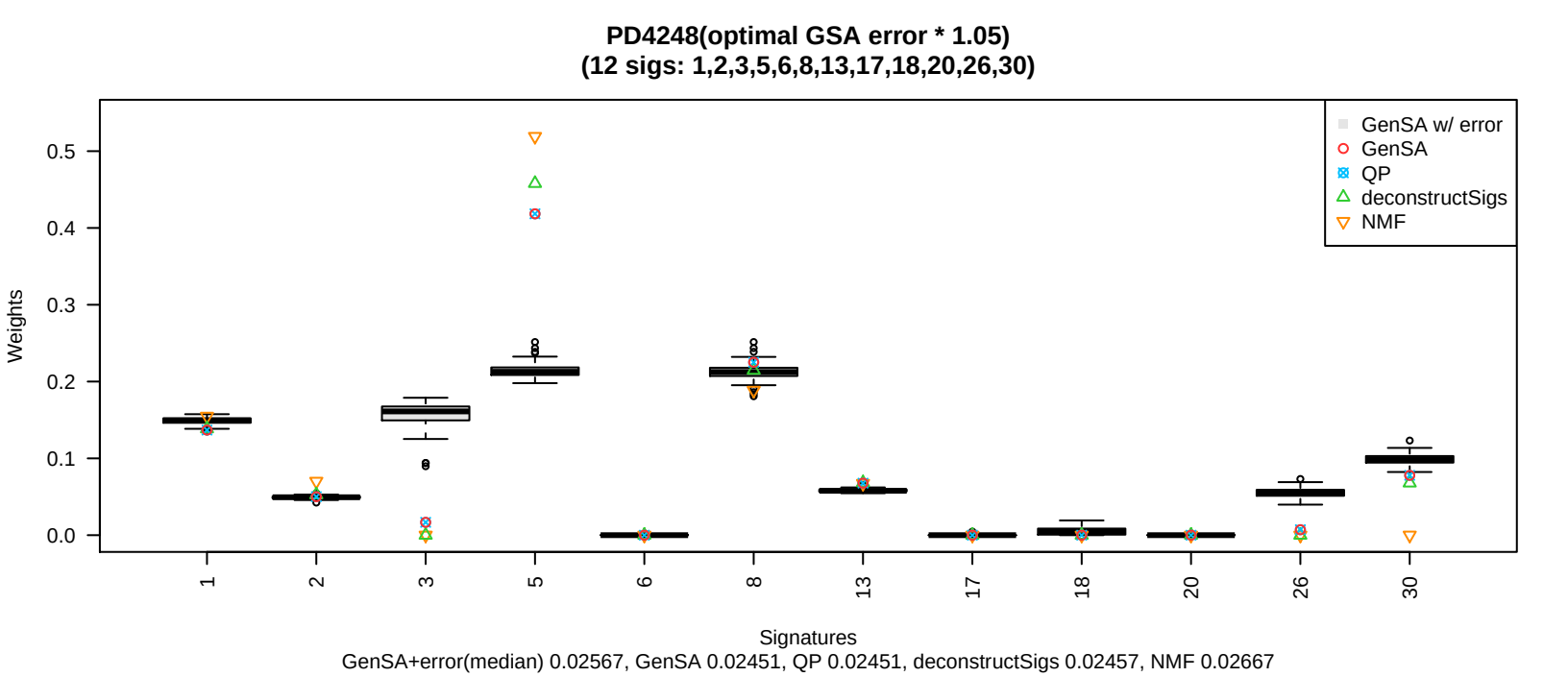

PD4192(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03626, GenSA 0.03472, QP 0.03472, deconstructSigs 0.03510, NMF 0.05694


PD4194(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03056, GenSA 0.02946, QP 0.02946, deconstructSigs 0.02956, NMF 0.03560

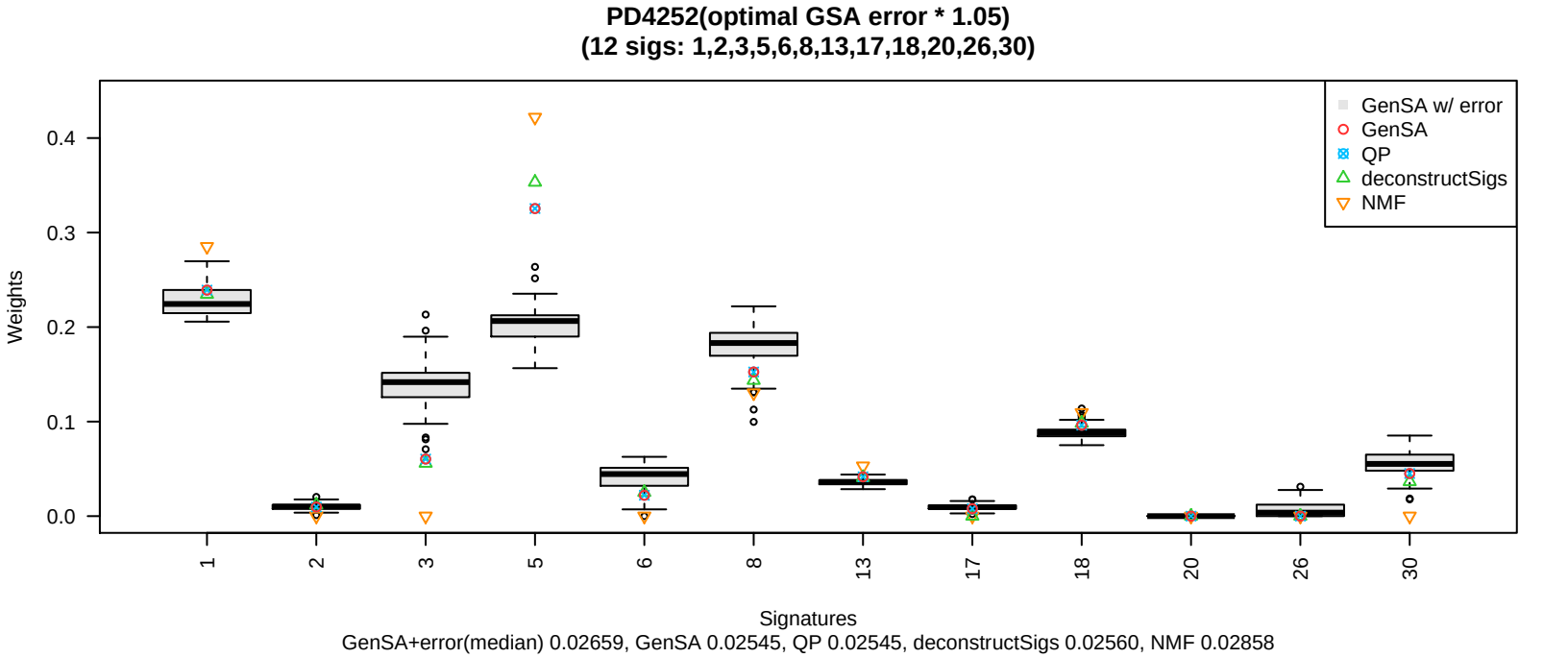

PD4198(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02753, GenSA 0.02633, QP 0.02633, deconstructSigs 0.02636, NMF 0.02901


PD4199(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01368, GenSA 0.01315, QP 0.01315, deconstructSigs 0.01354, NMF 0.11098

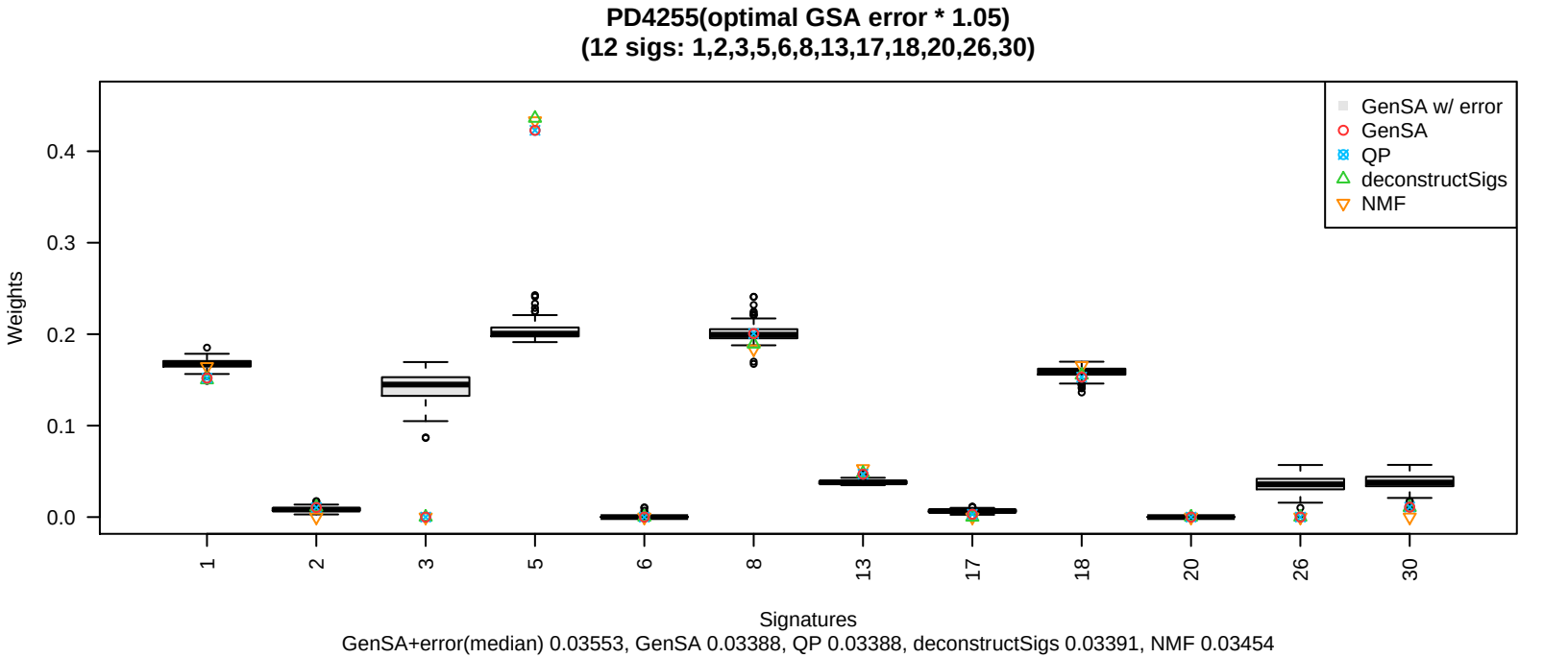

PD4225(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02588, GenSA 0.02484, QP 0.02484, deconstructSigs 0.02635, NMF 0.02801



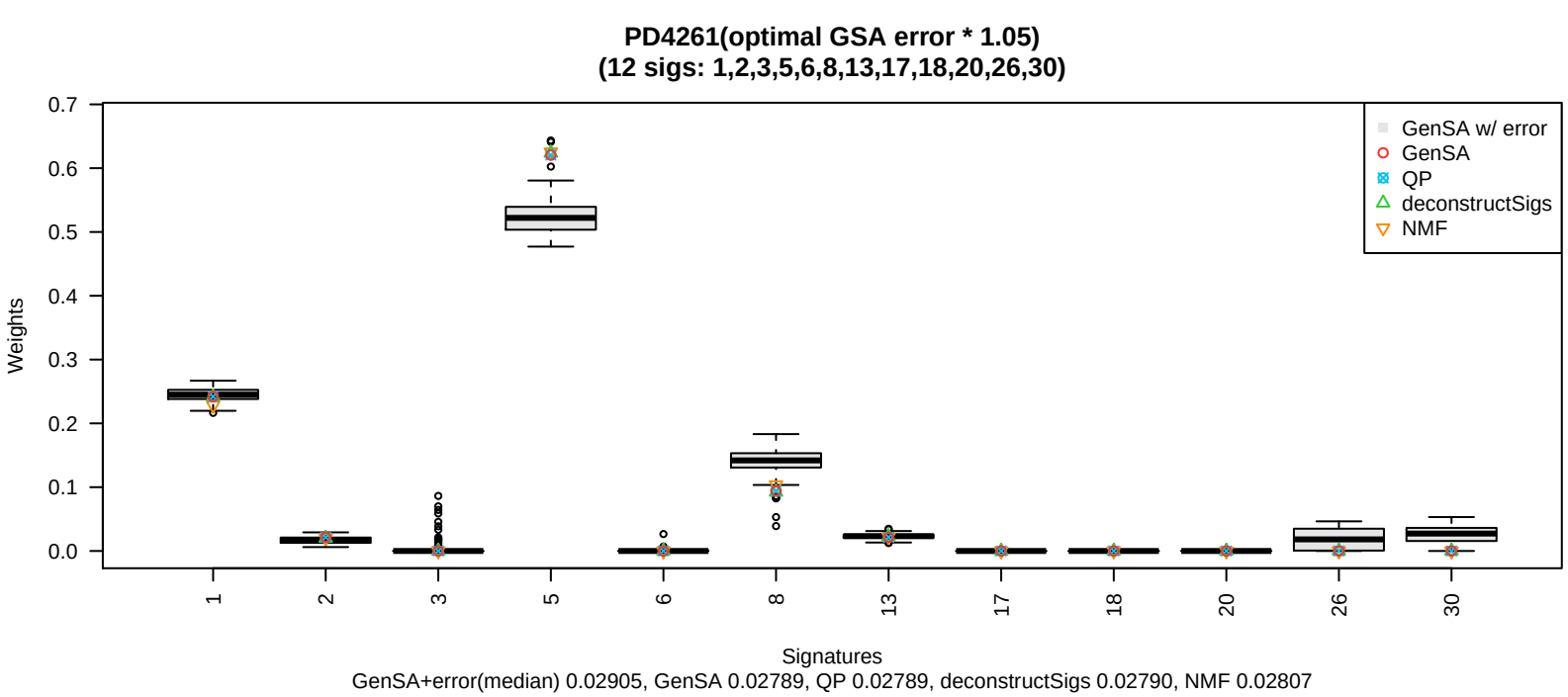
GenSA+error(median) 0.02567, GenSA 0.02451, QP 0.02451, deconstructSigs 0.02457, NMF 0.02667

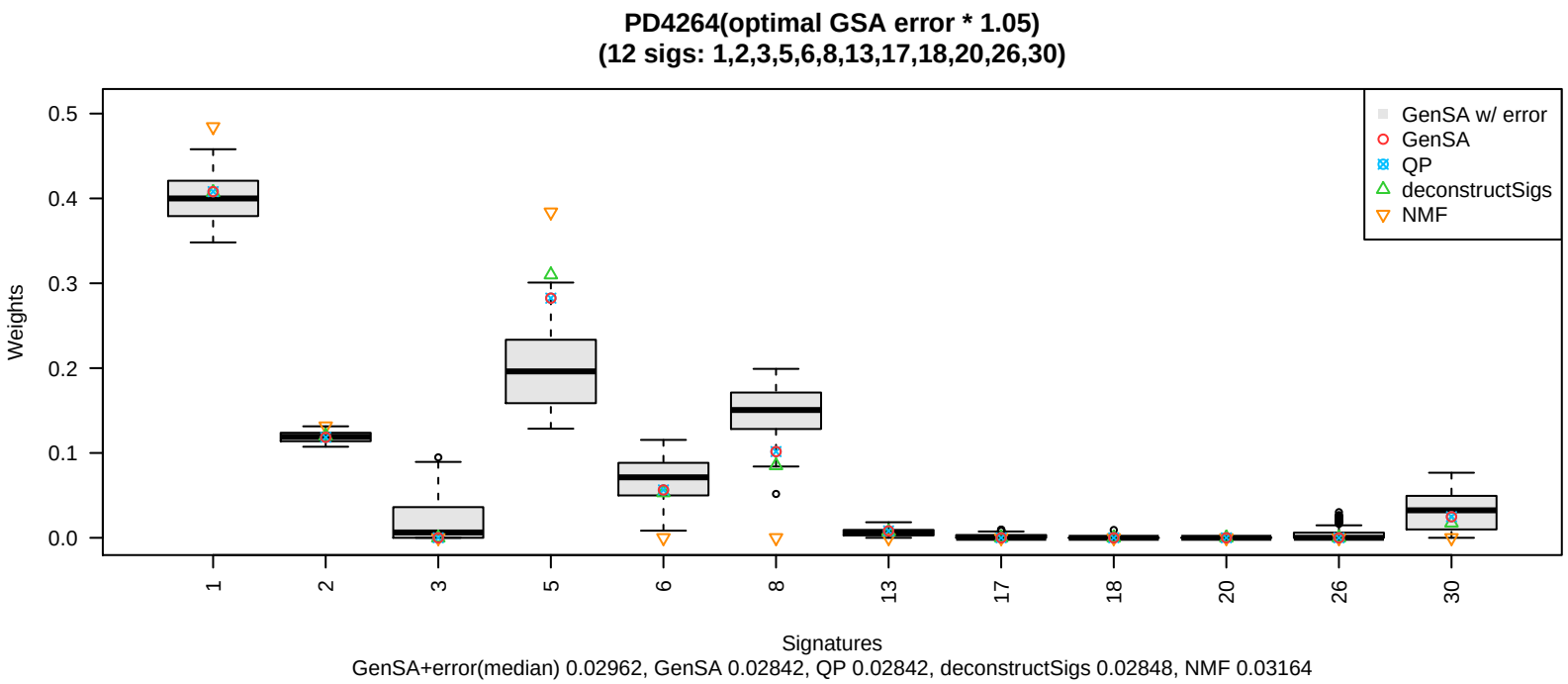


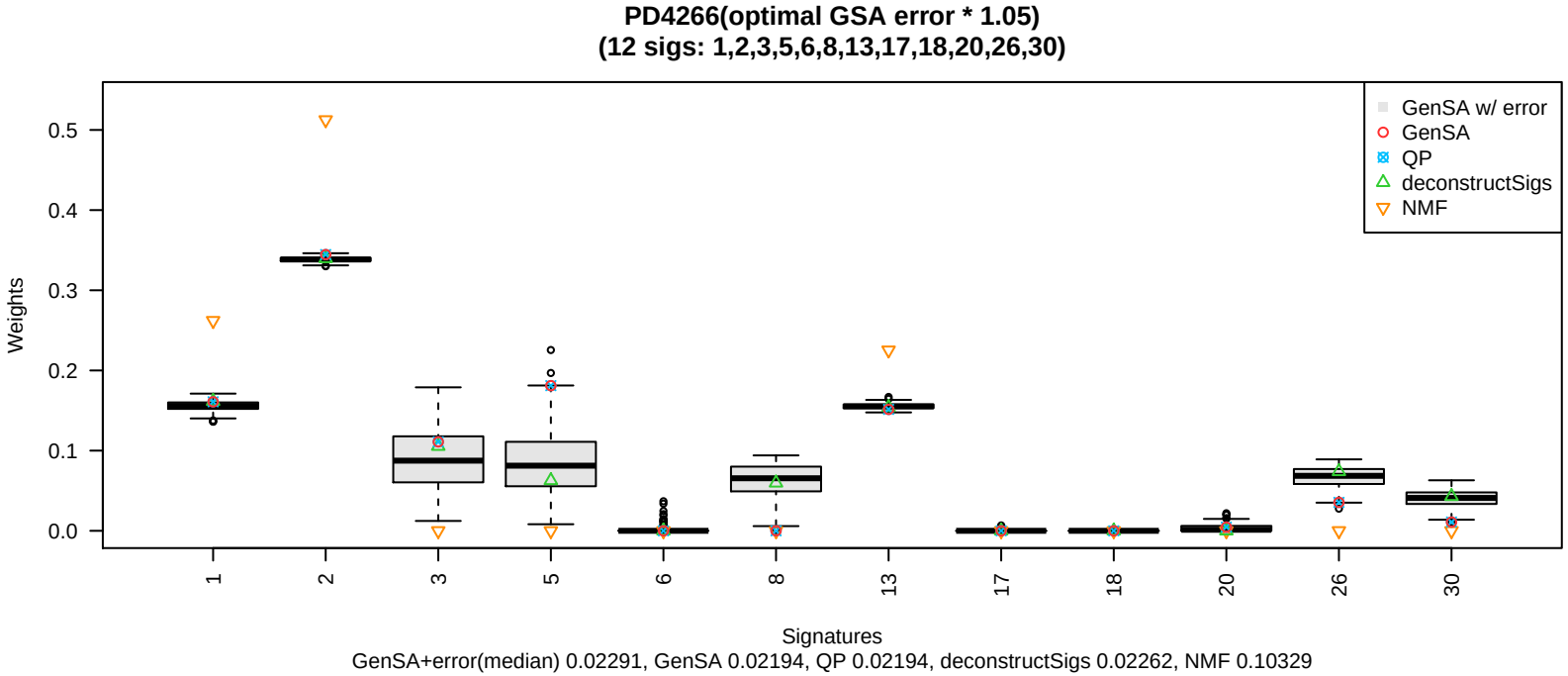
GenSA+error(median) 0.02659, GenSA 0.02545, QP 0.02545, deconstructSigs 0.02560, NMF 0.02858

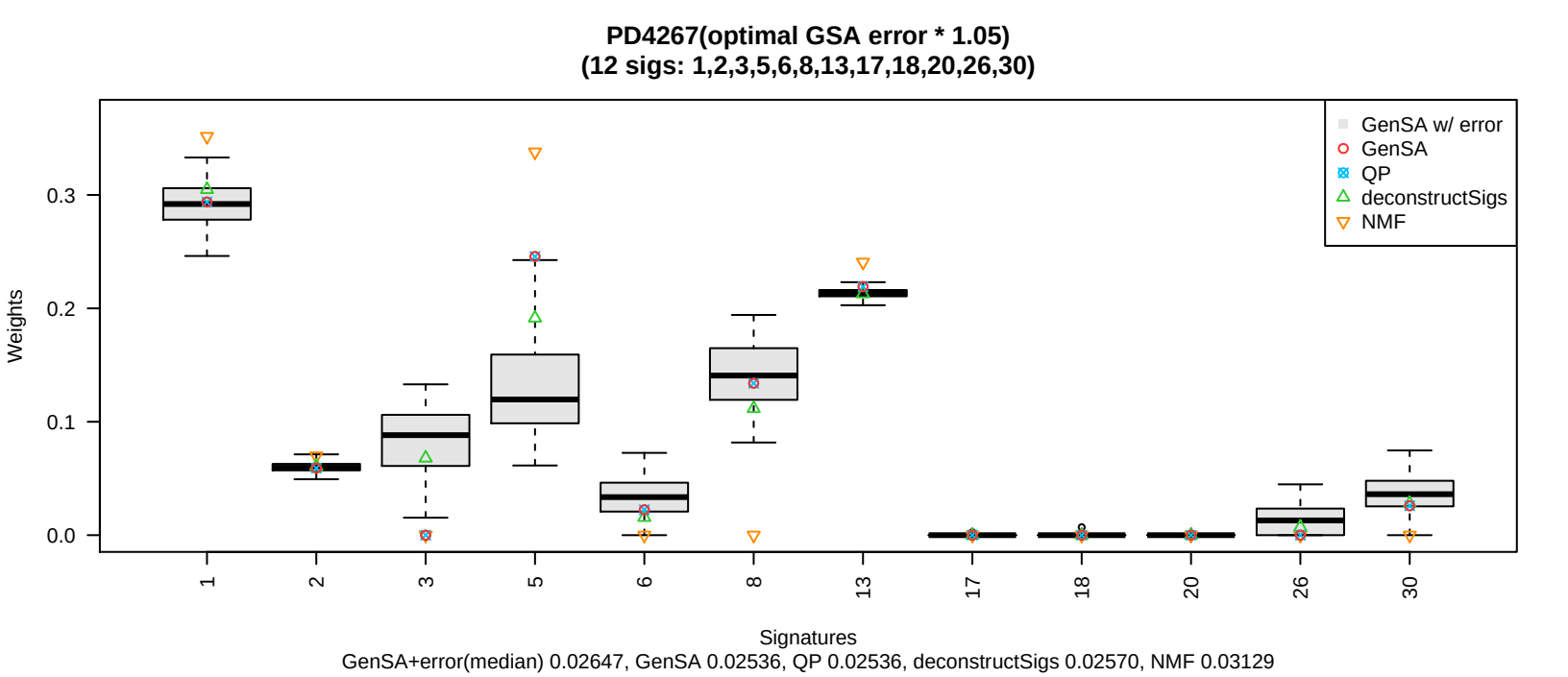


GenSA+error(median) 0.03553, GenSA 0.03388, QP 0.03388, deconstructSigs 0.03391, NMF 0.03454

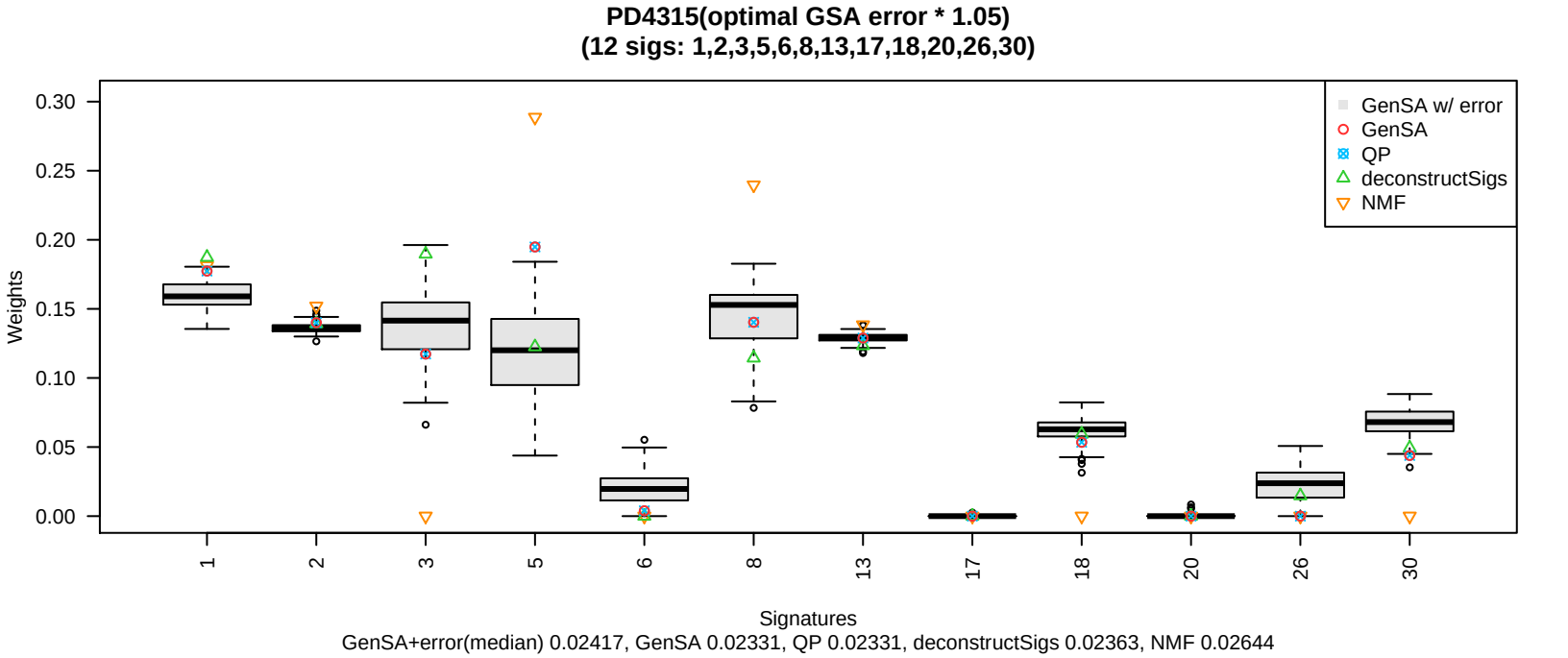

PD4261(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02905, GenSA 0.02789, QP 0.02789, deconstructSigs 0.02790, NMF 0.02807


PD4264(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02962, GenSA 0.02842, QP 0.02842, deconstructSigs 0.02848, NMF 0.03164

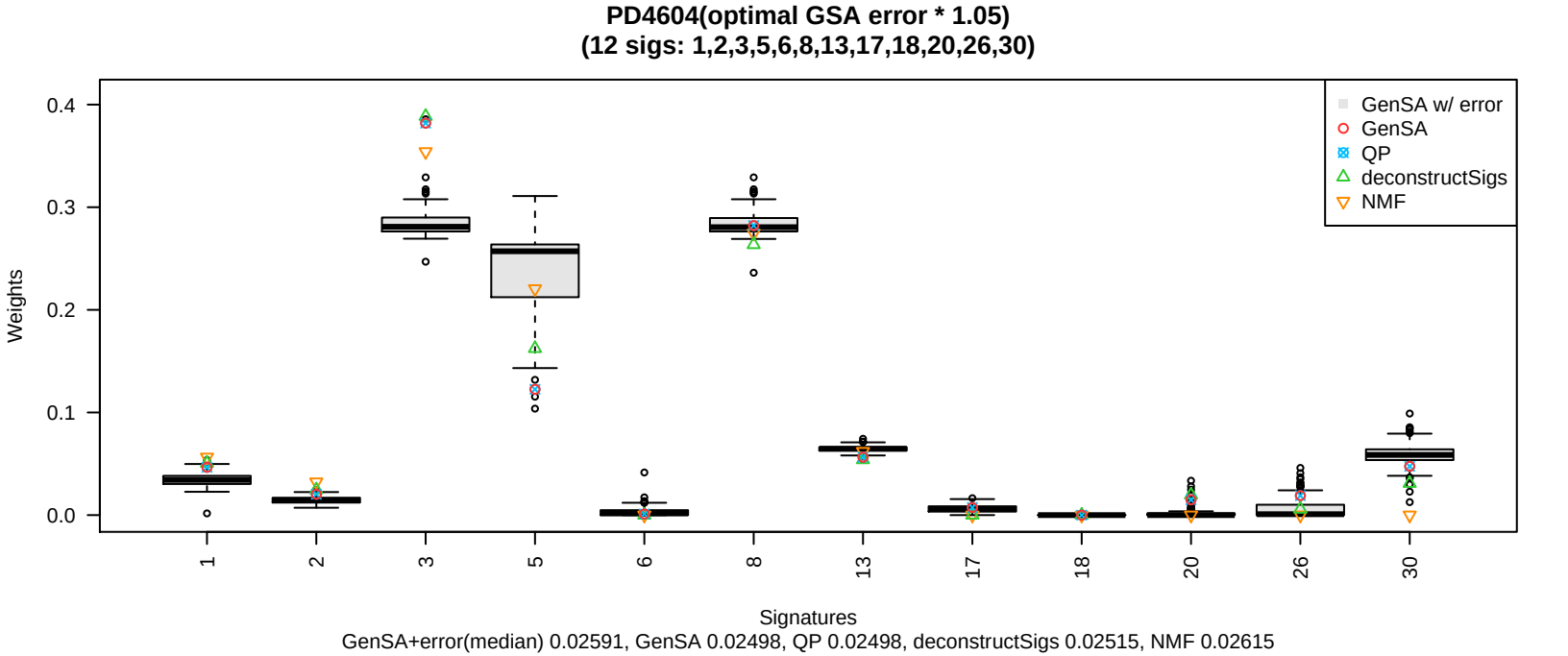

PD4266(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02291, GenSA 0.02194, QP 0.02194, deconstructSigs 0.02262, NMF 0.10329



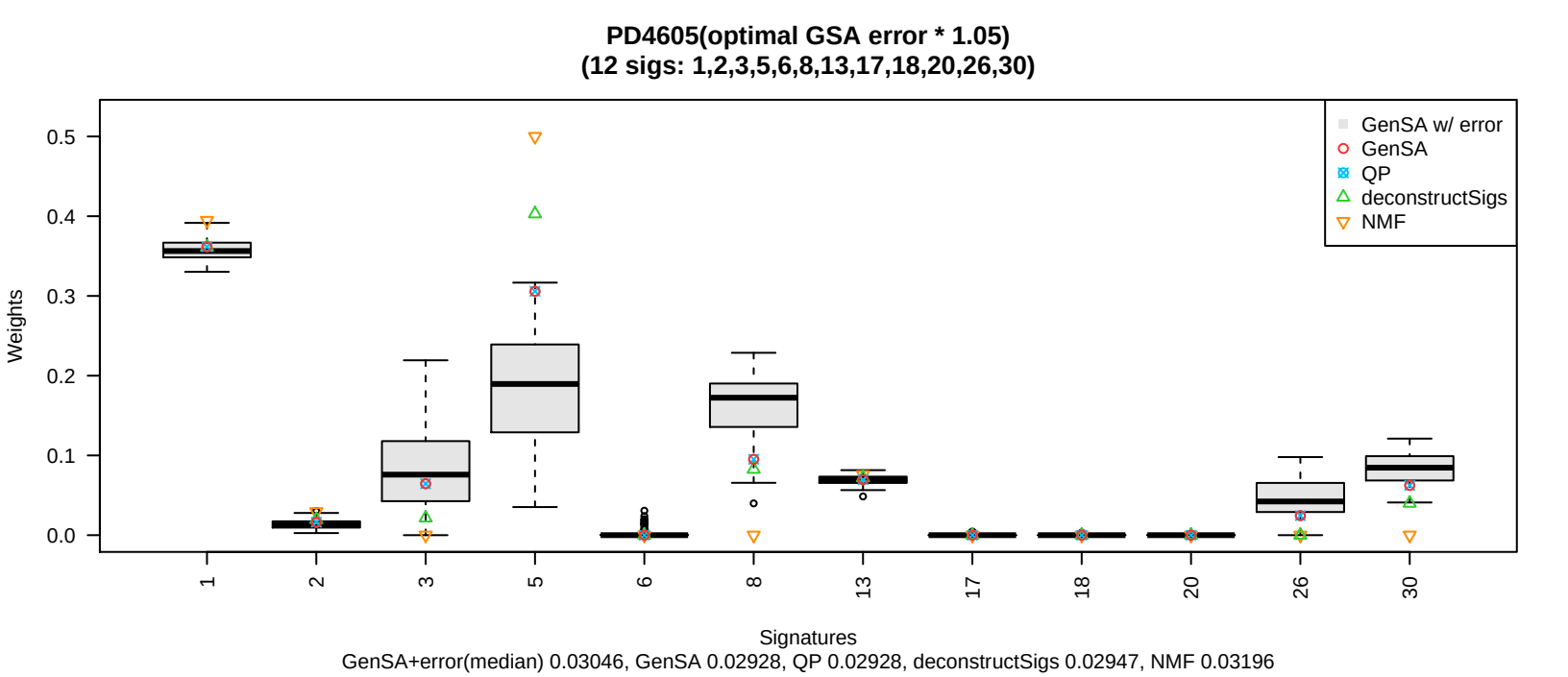
GenSA+error(median) 0.02647, GenSA 0.02536, QP 0.02536, deconstructSigs 0.02570, NMF 0.03129

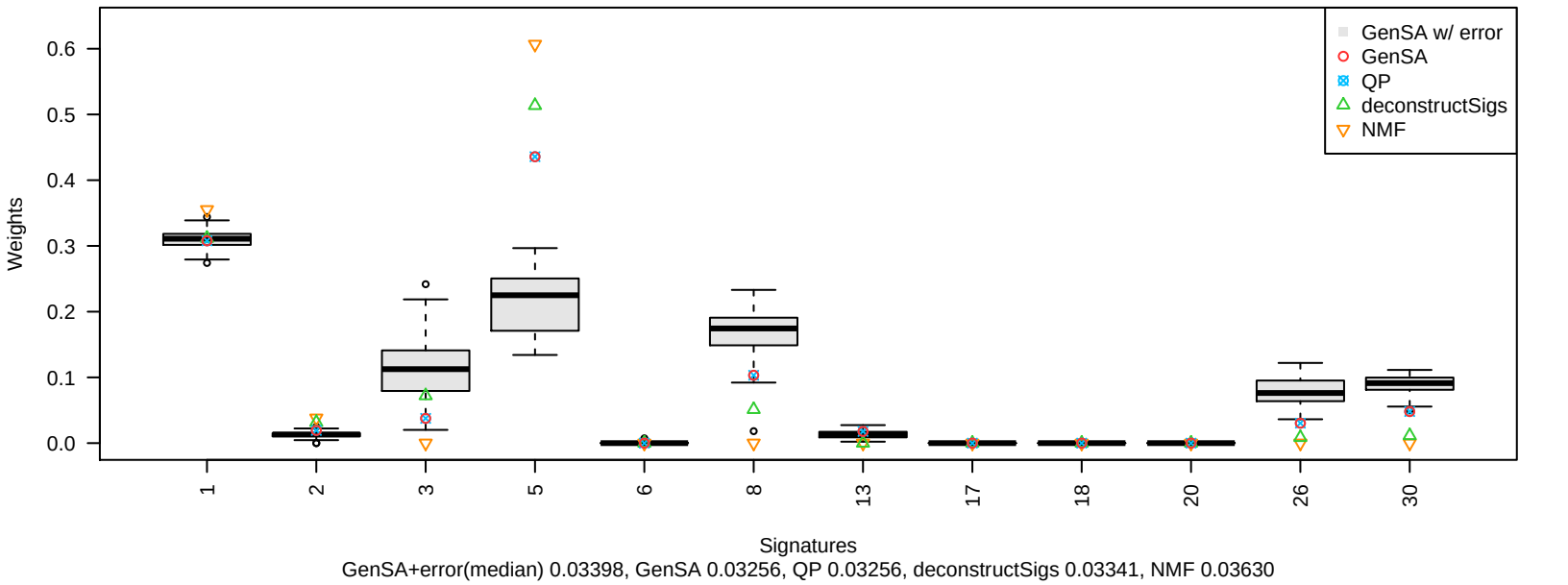


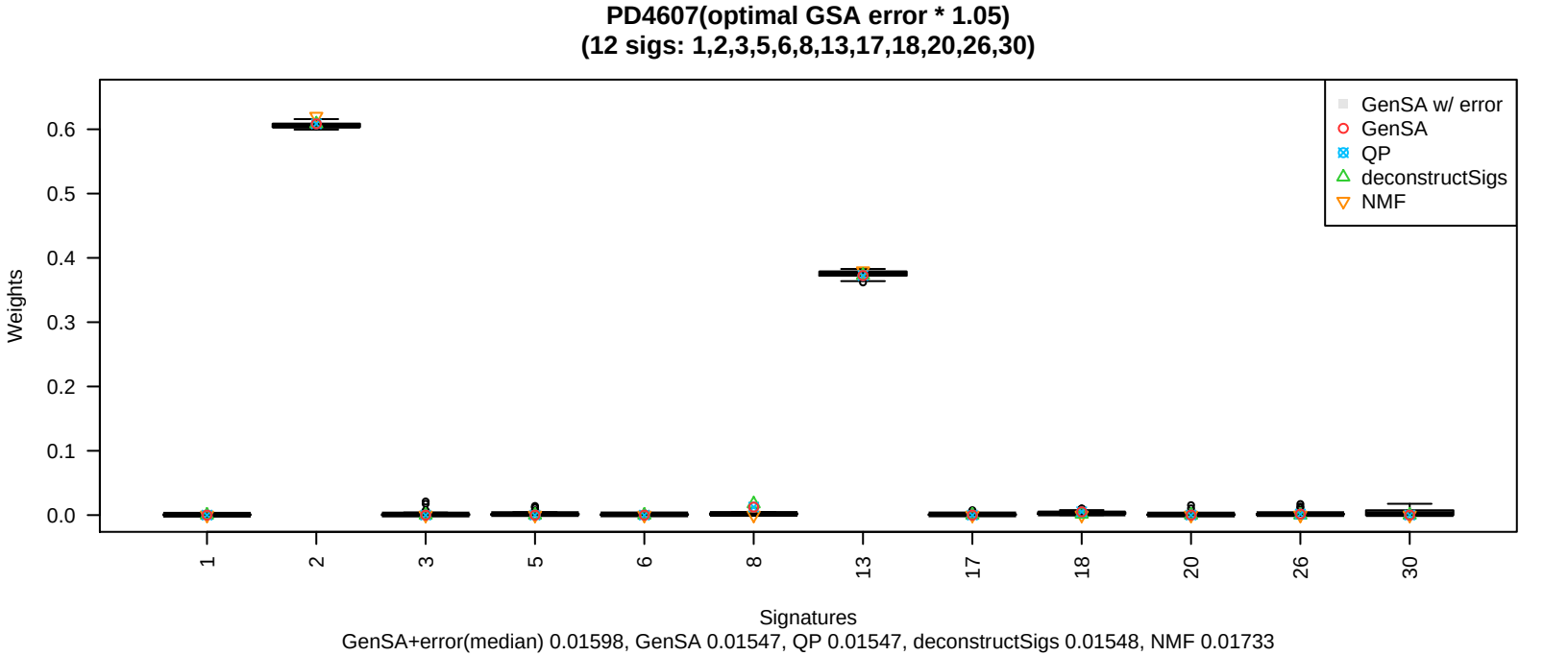
GenSA+error(median) 0.02417, GenSA 0.02331, QP 0.02331, deconstructSigs 0.02363, NMF 0.02644

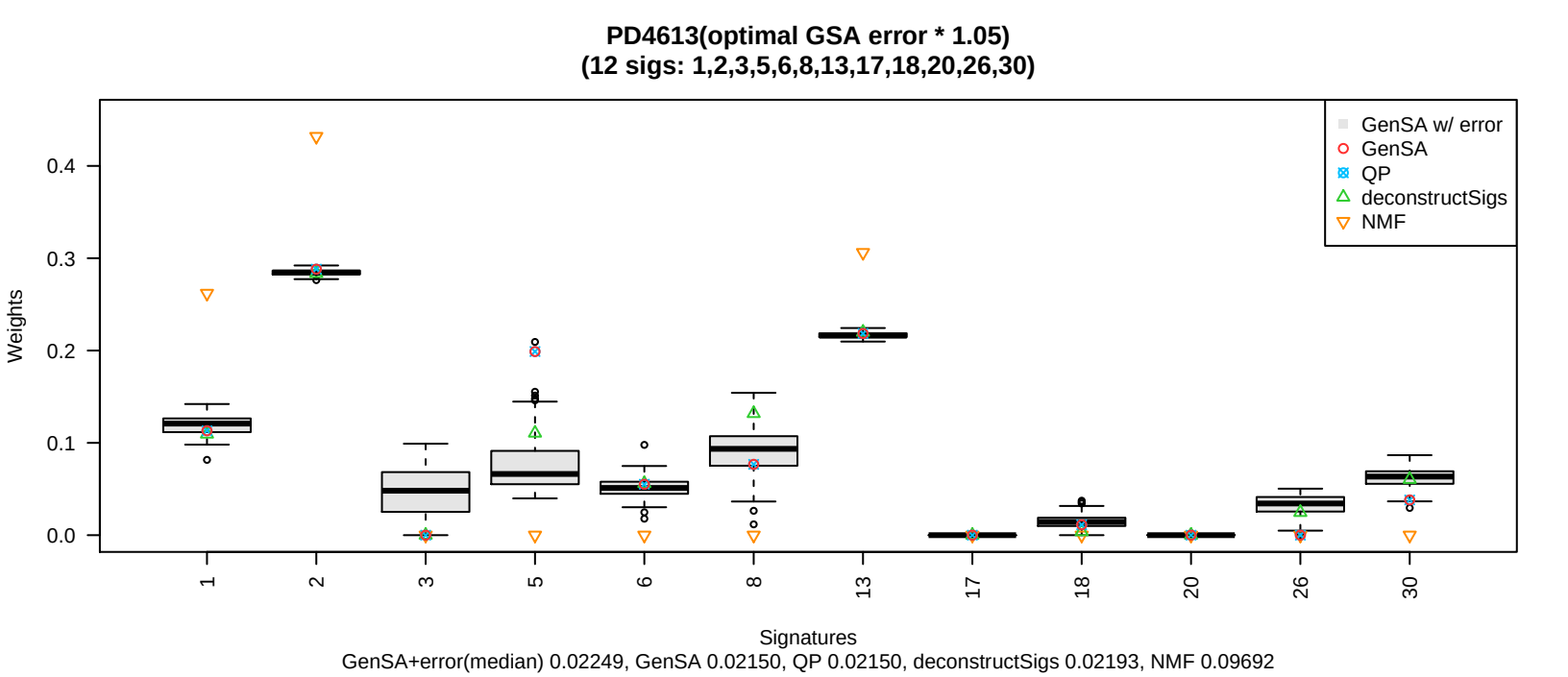


GenSA+error(median) 0.02591, GenSA 0.02498, QP 0.02498, deconstructSigs 0.02515, NMF 0.02615

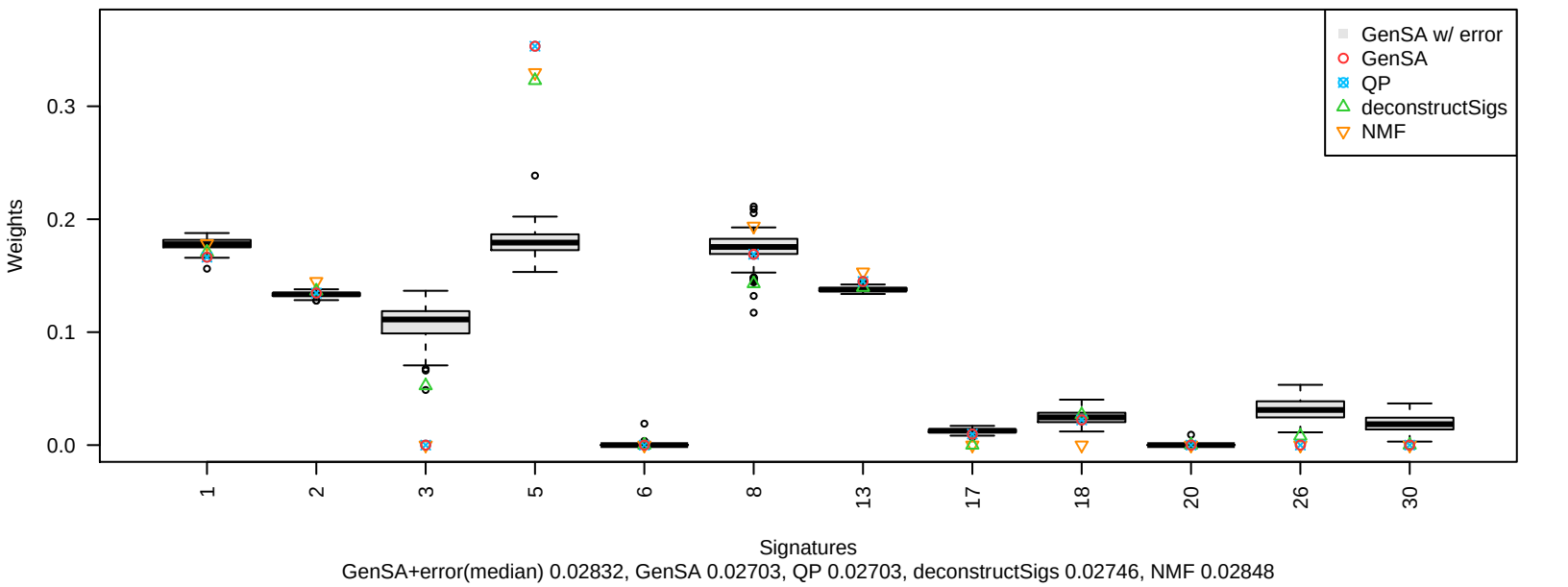

PD4605(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03046, GenSA 0.02928, QP 0.02928, deconstructSigs 0.02947, NMF 0.03196


PD4606(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03398, GenSA 0.03256, QP 0.03256, deconstructSigs 0.03341, NMF 0.03630

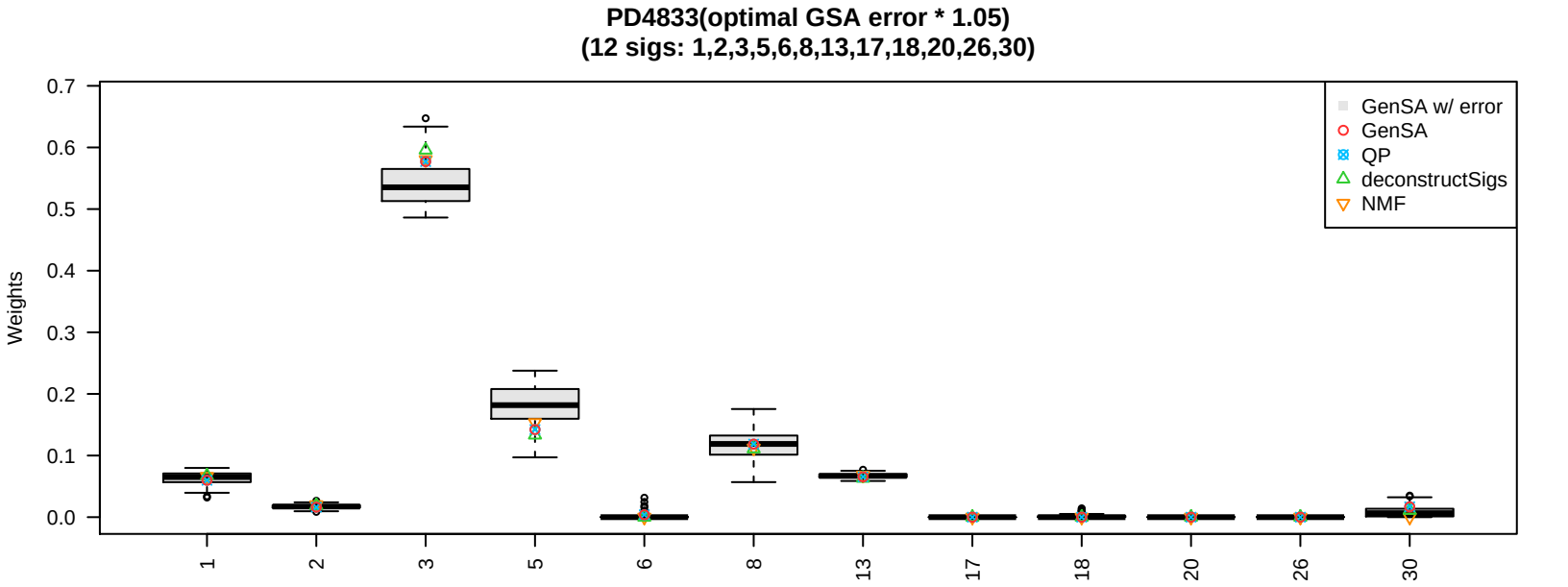

PD4607(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01598, GenSA 0.01547, QP 0.01547, deconstructSigs 0.01548, NMF 0.01733



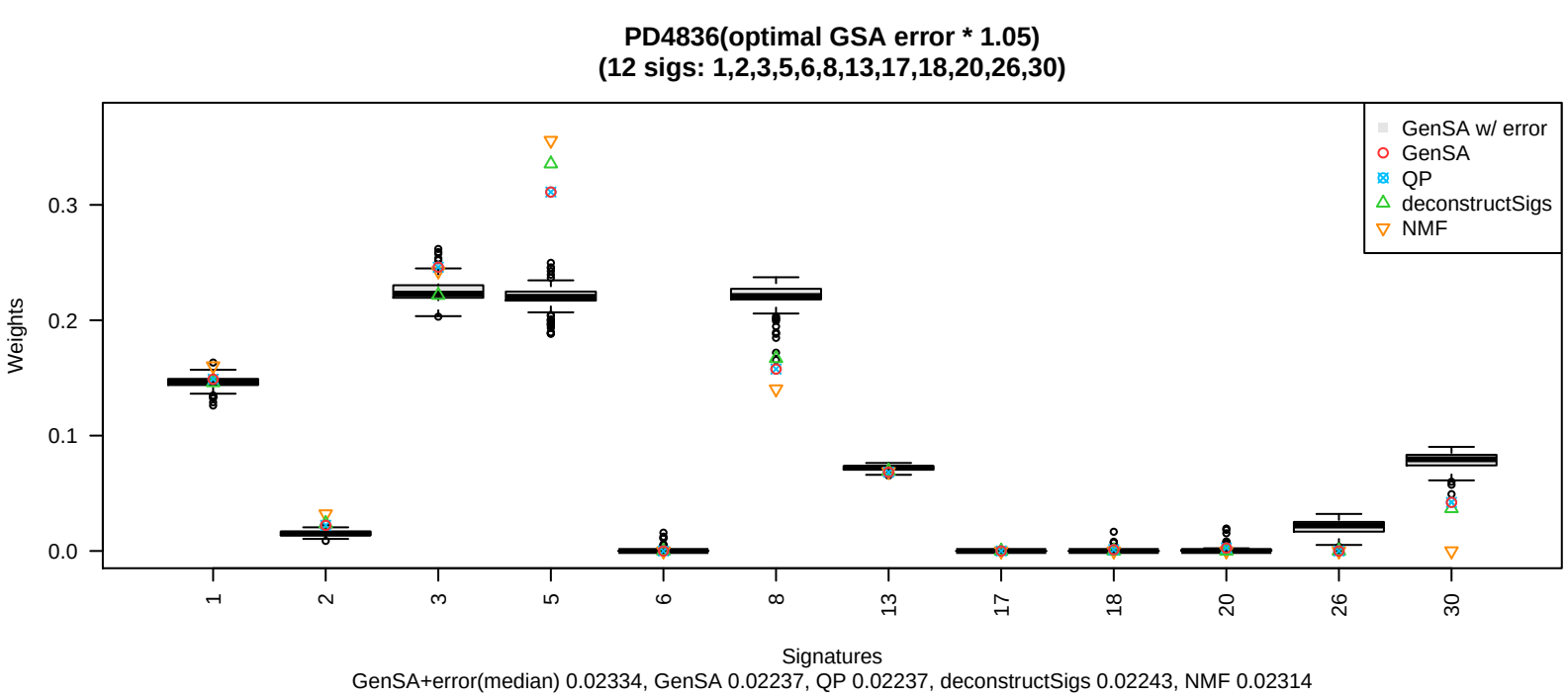
GenSA+error(median) 0.02249, GenSA 0.02150, QP 0.02150, deconstructSigs 0.02193, NMF 0.09692



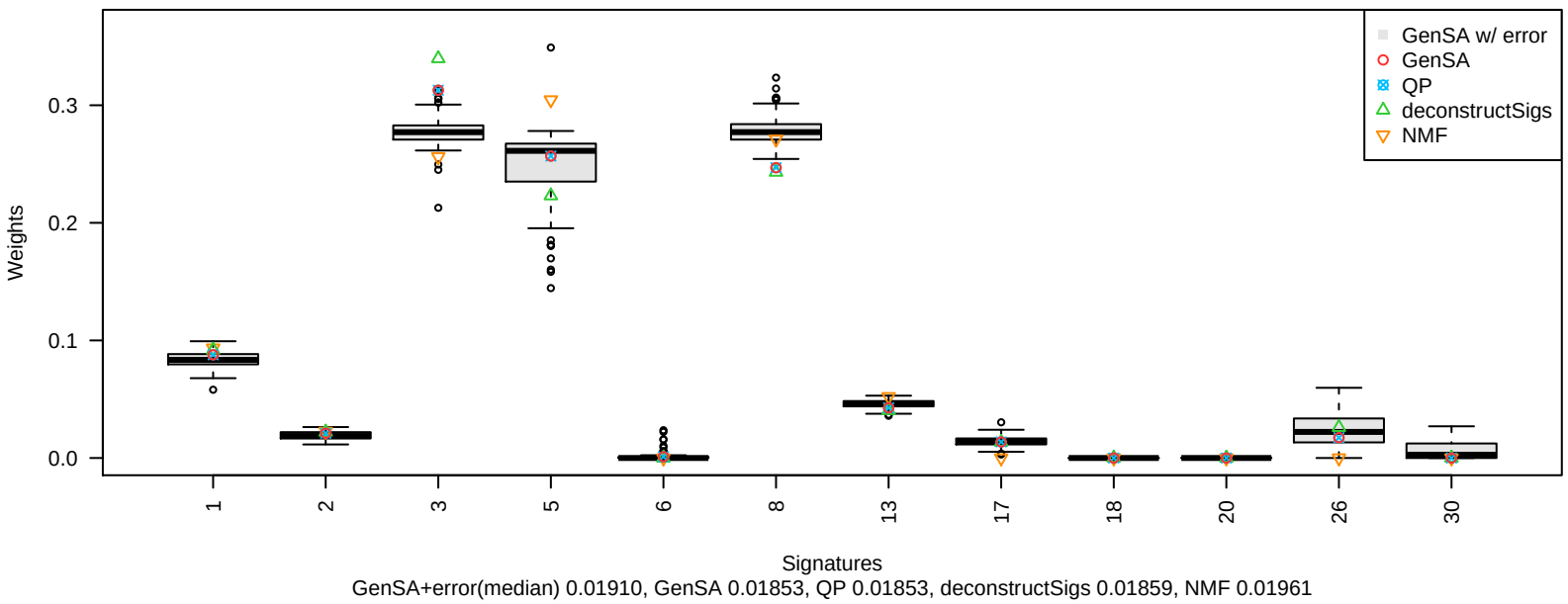
GenSA+error(median) 0.02832, GenSA 0.02703, QP 0.02703, deconstructSigs 0.02746, NMF 0.02848



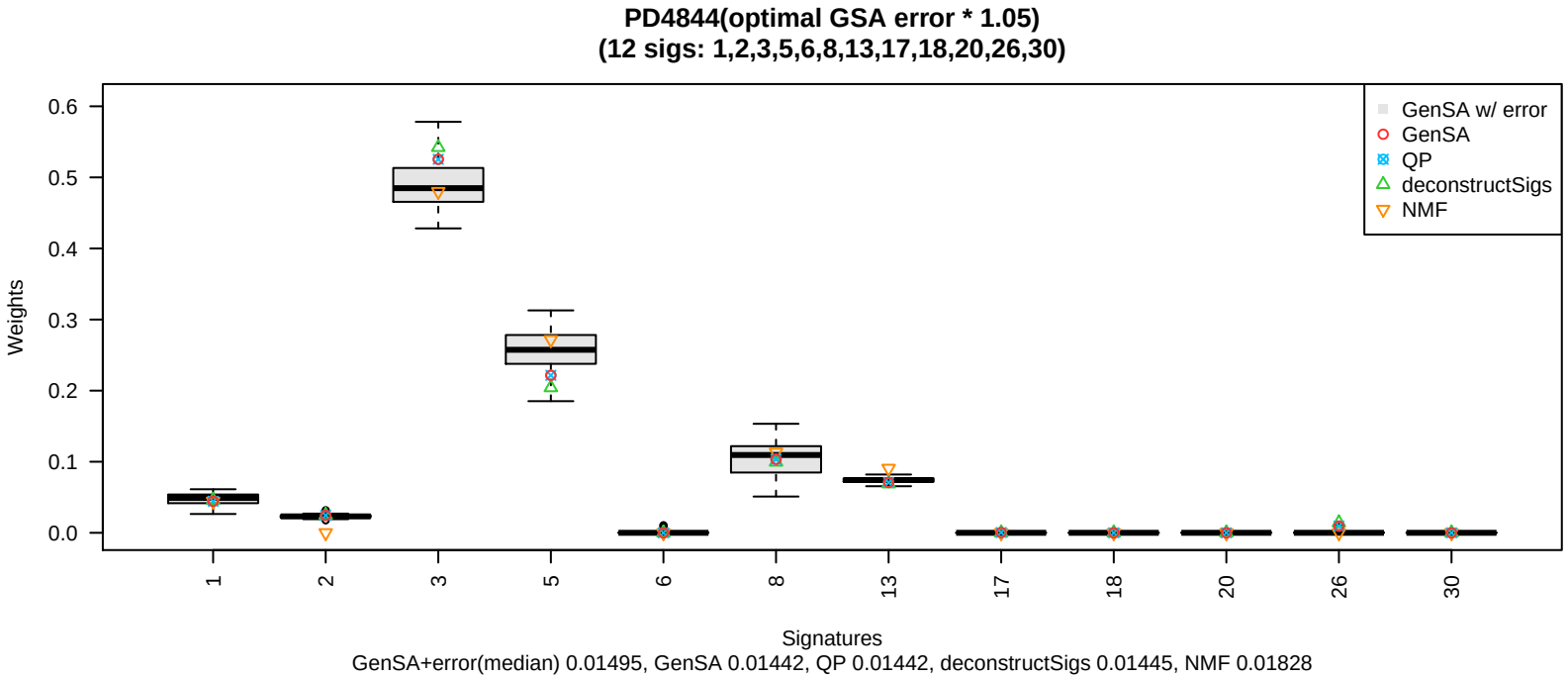
GenSA+error(median) 0.01658, GenSA 0.01595, QP 0.01595, deconstructSigs 0.01601, NMF 0.01621



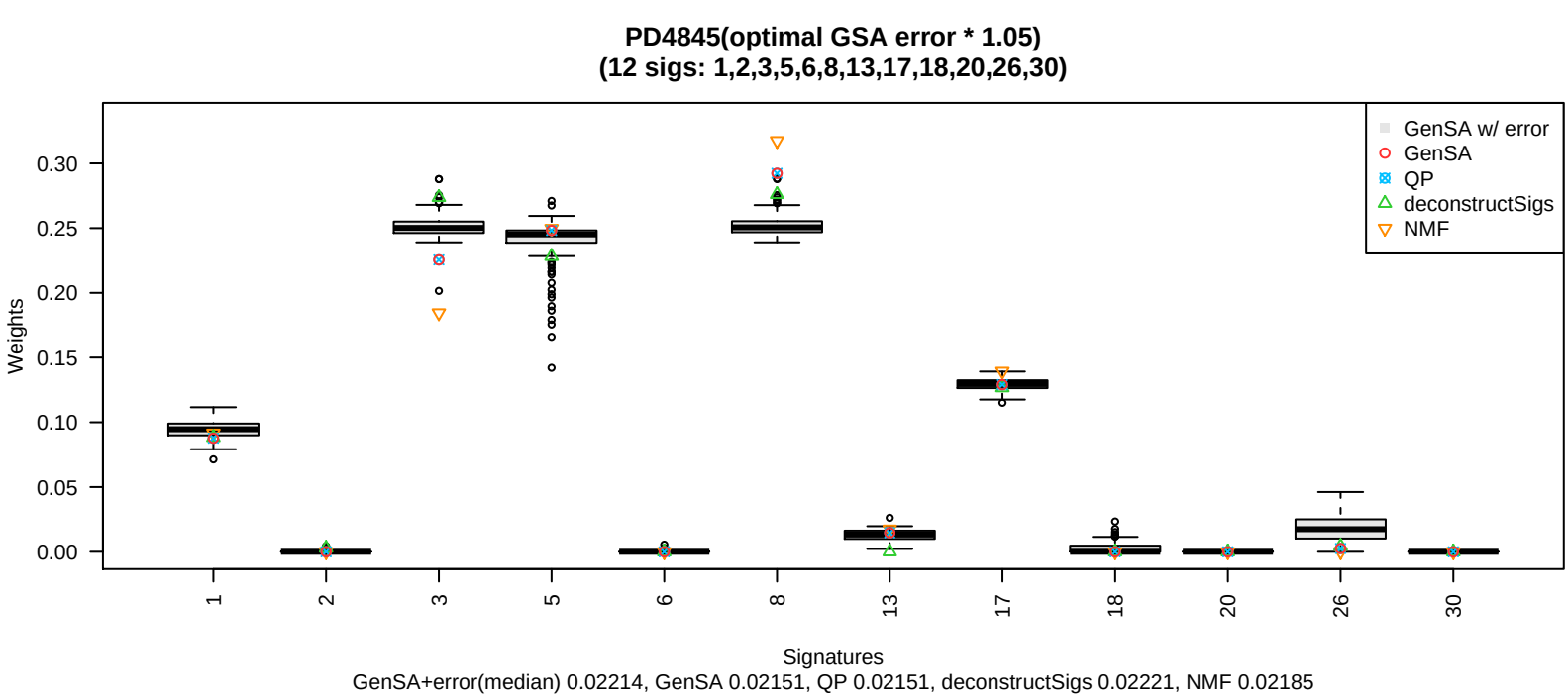
GenSA+error(median) 0.02334, GenSA 0.02237, QP 0.02237, deconstructSigs 0.02243, NMF 0.02314



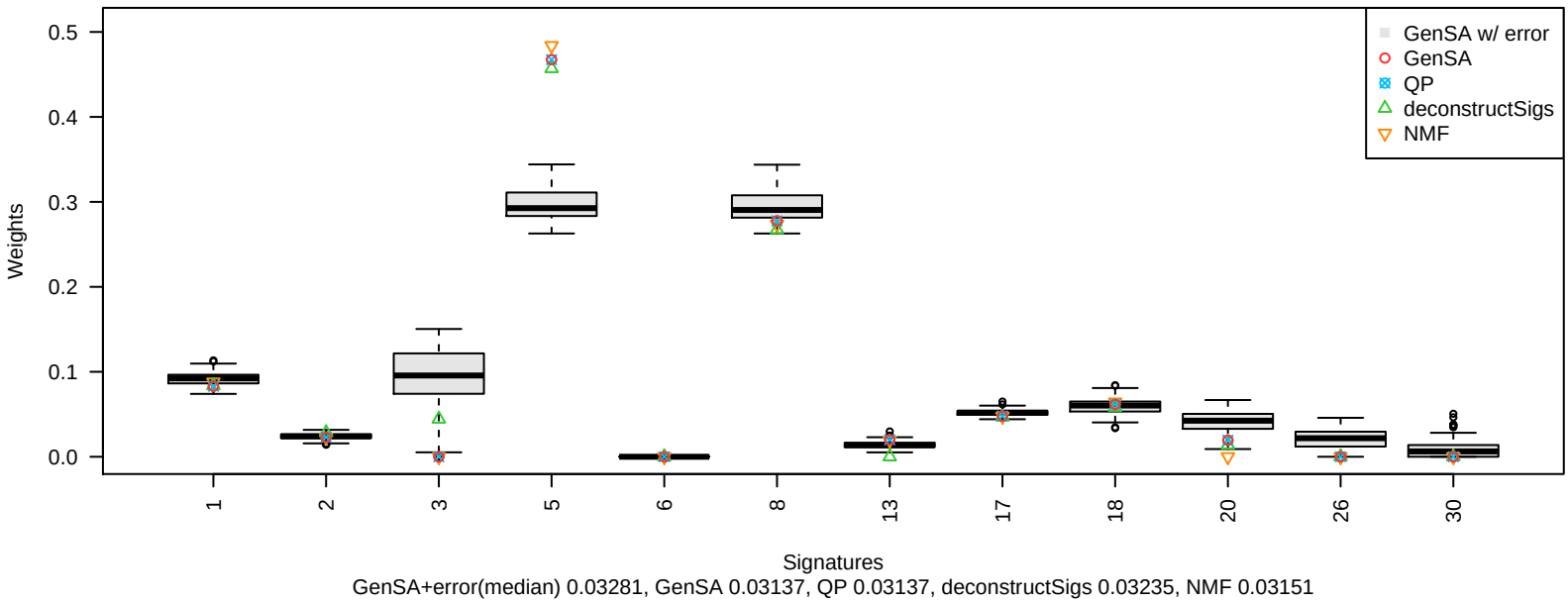
GenSA+error(median) 0.01910, GenSA 0.01853, QP 0.01853, deconstructSigs 0.01859, NMF 0.01961



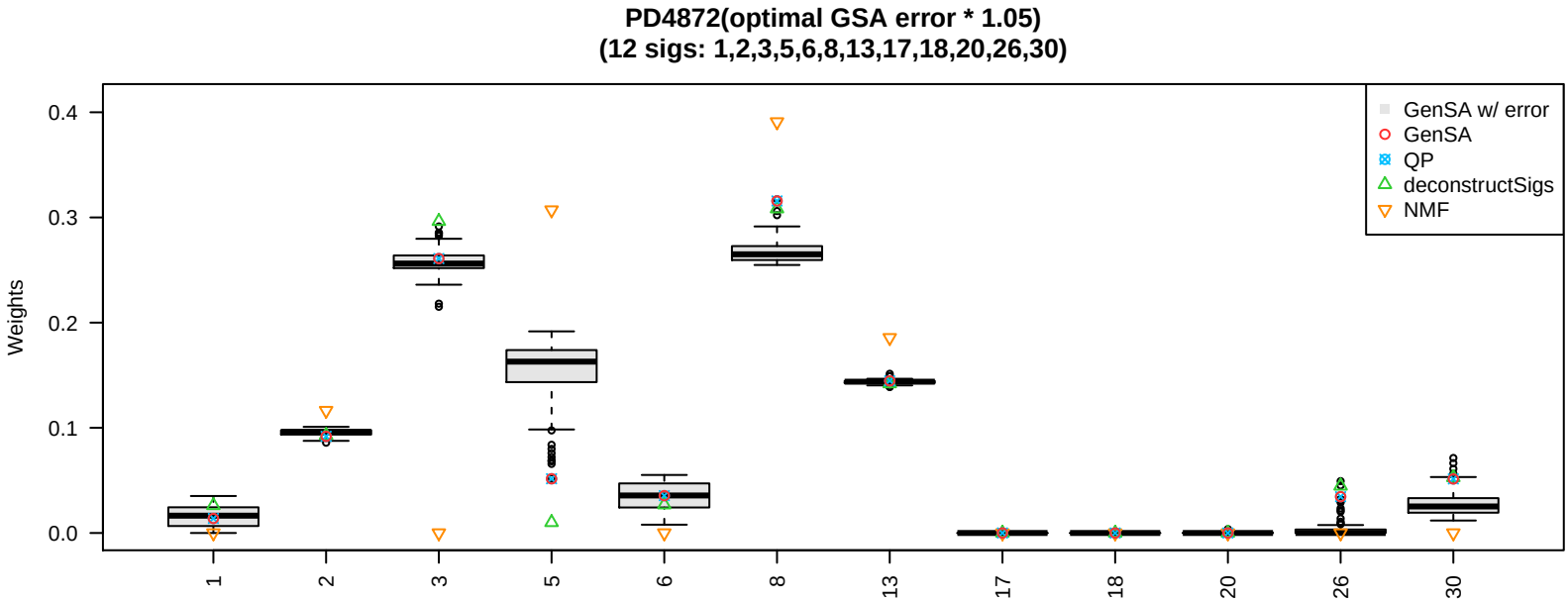
GenSA+error(median) 0.01495, GenSA 0.01442, QP 0.01442, deconstructSigs 0.01445, NMF 0.01828



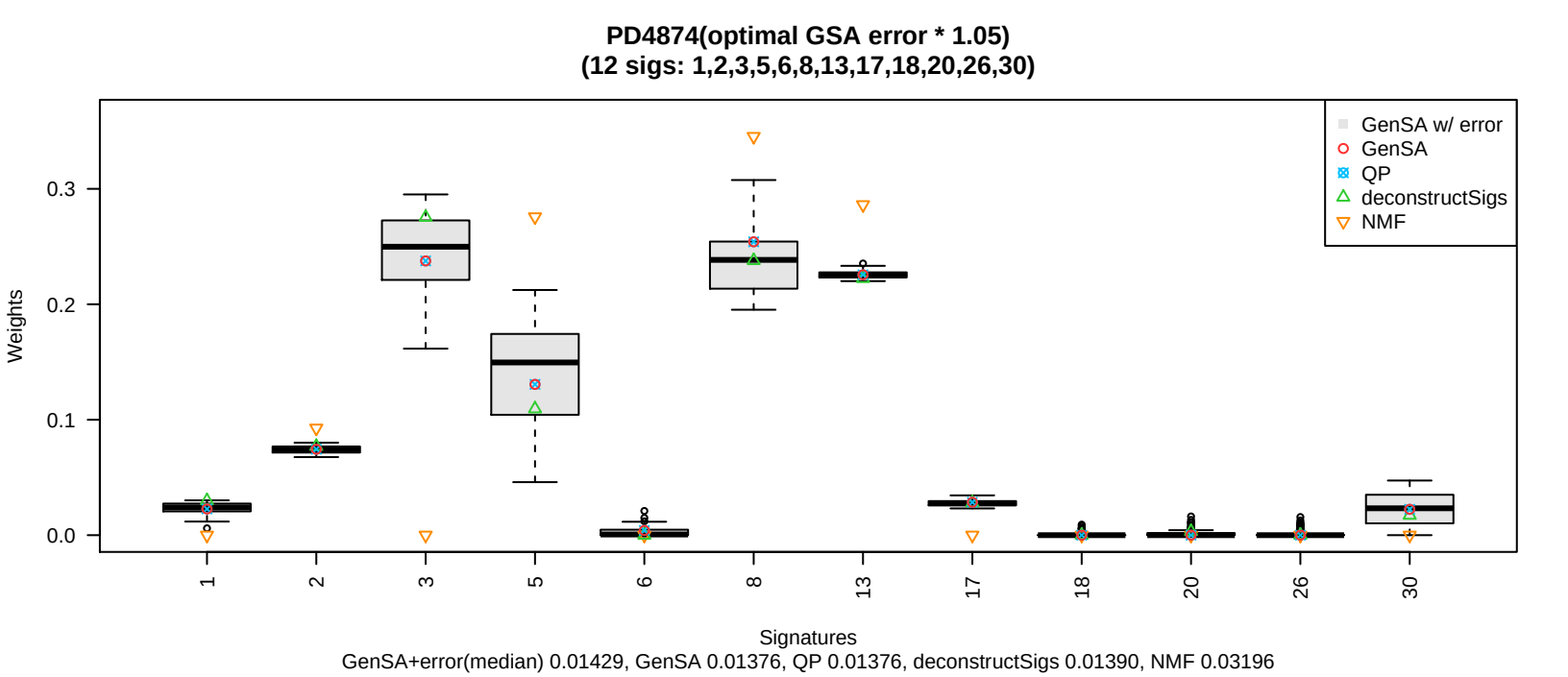
GenSA+error(median) 0.02214, GenSA 0.02151, QP 0.02151, deconstructSigs 0.02221, NMF 0.02185



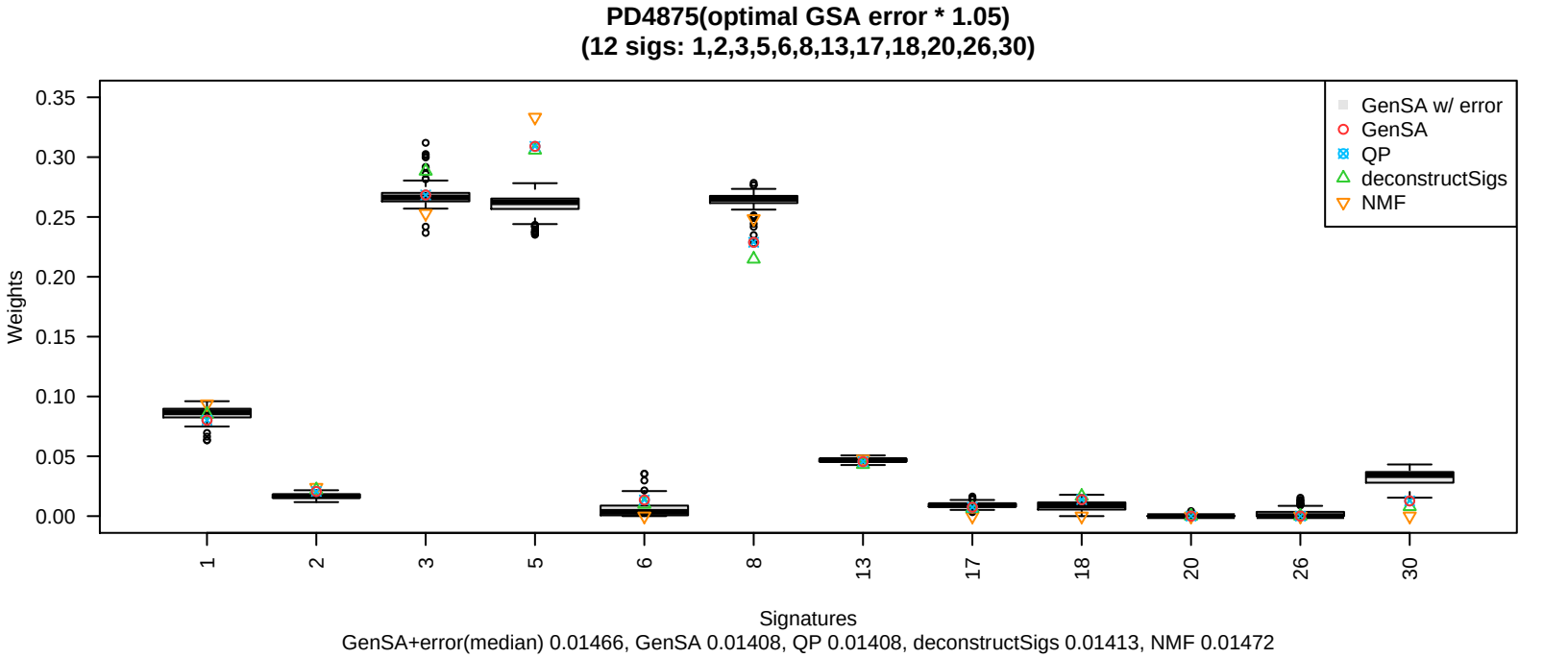
GenSA+error(median) 0.03281, GenSA 0.03137, QP 0.03137, deconstructSigs 0.03235, NMF 0.03151



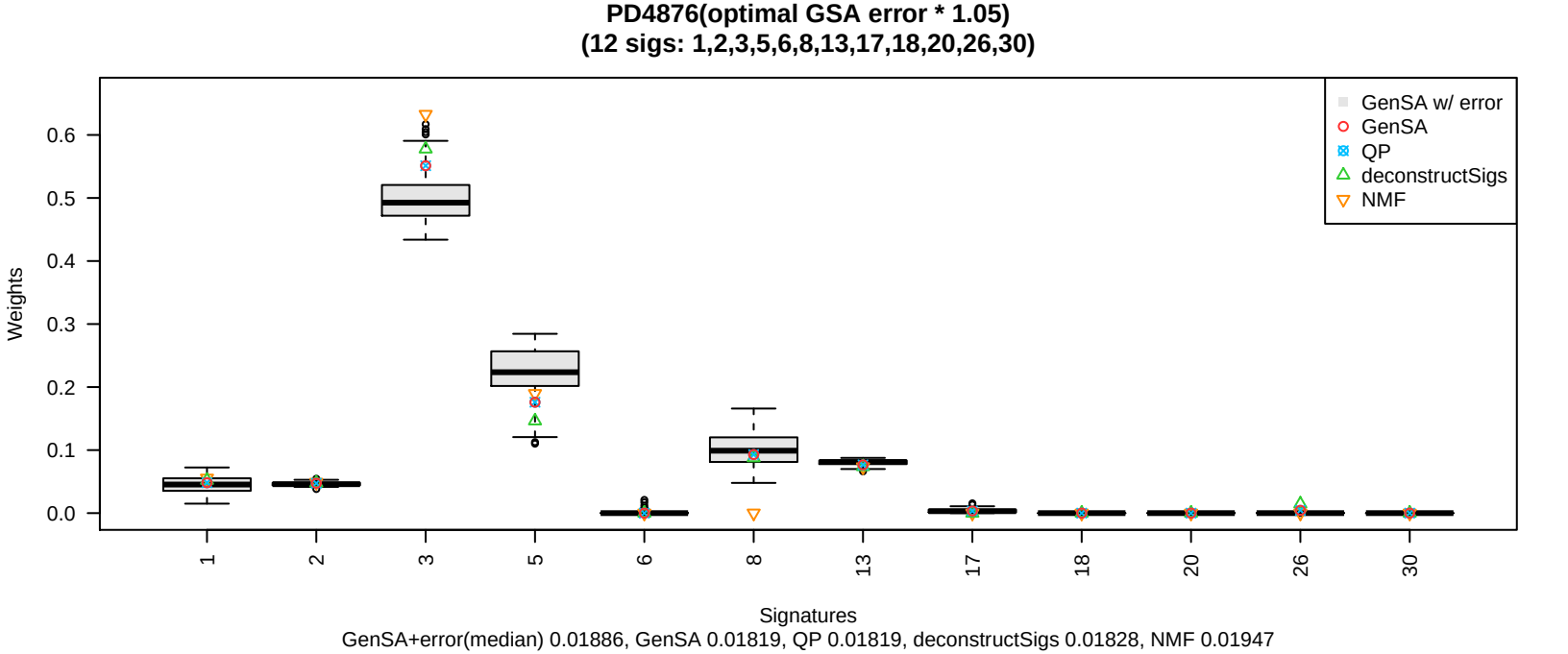
GenSA+error(median) 0.01714, GenSA 0.01641, QP 0.01641, deconstructSigs 0.01655, NMF 0.02828



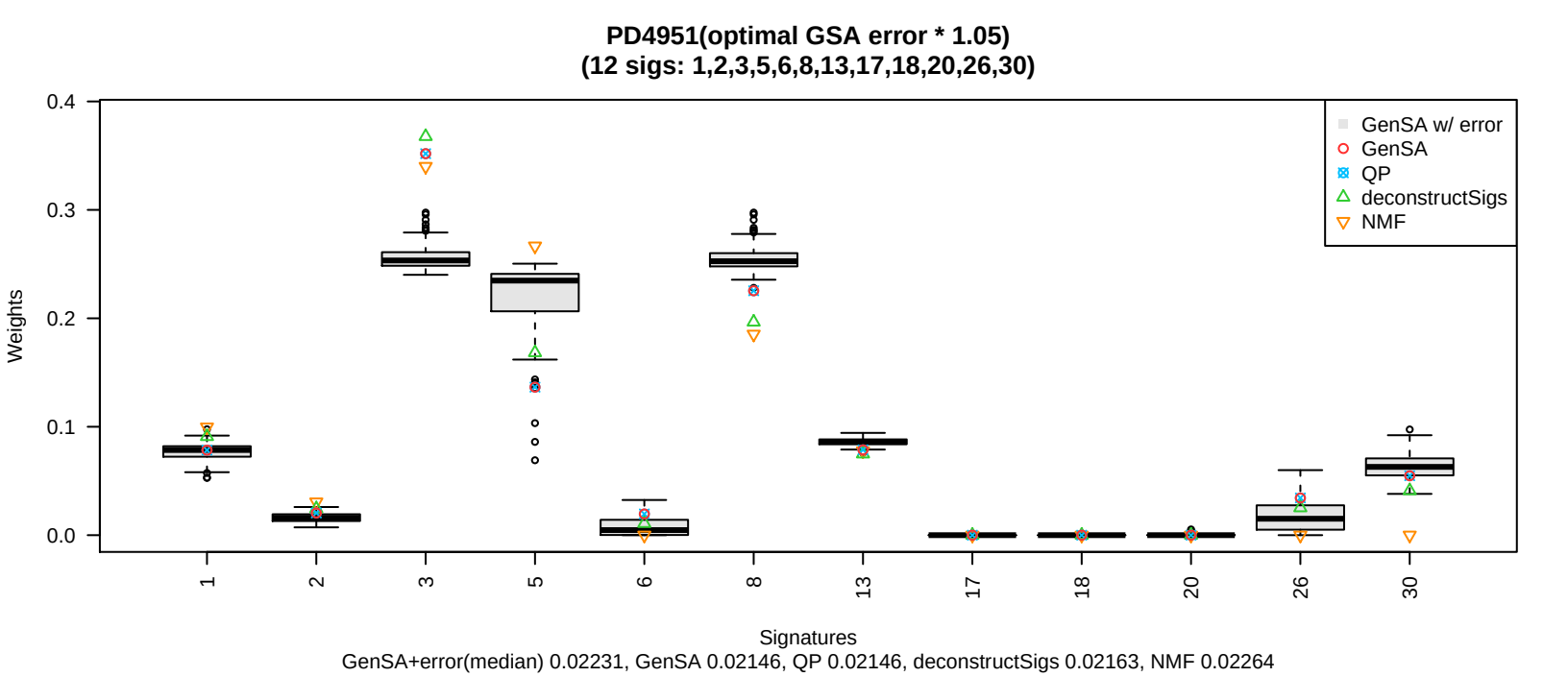
GenSA+error(median) 0.01429, GenSA 0.01376, QP 0.01376, deconstructSigs 0.01390, NMF 0.03196



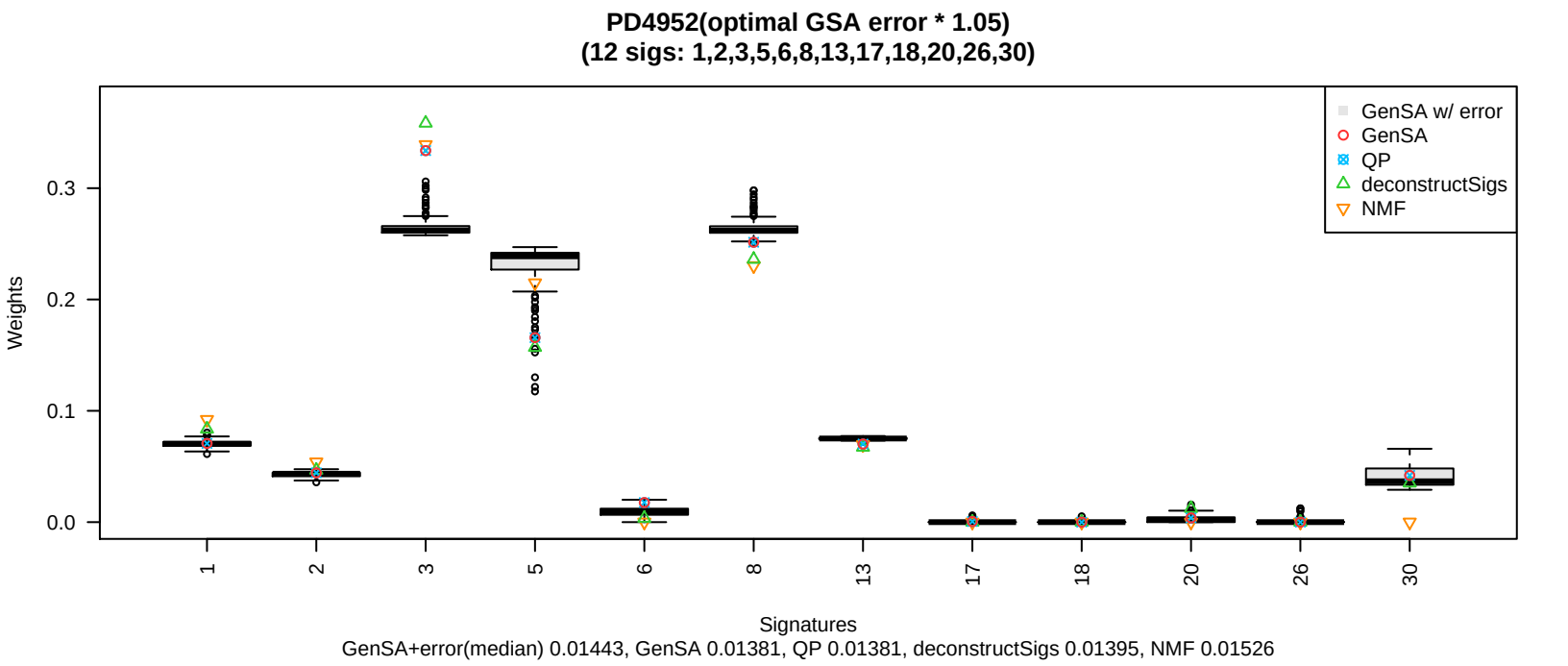
GenSA+error(median) 0.01466, GenSA 0.01408, QP 0.01408, deconstructSigs 0.01413, NMF 0.01472



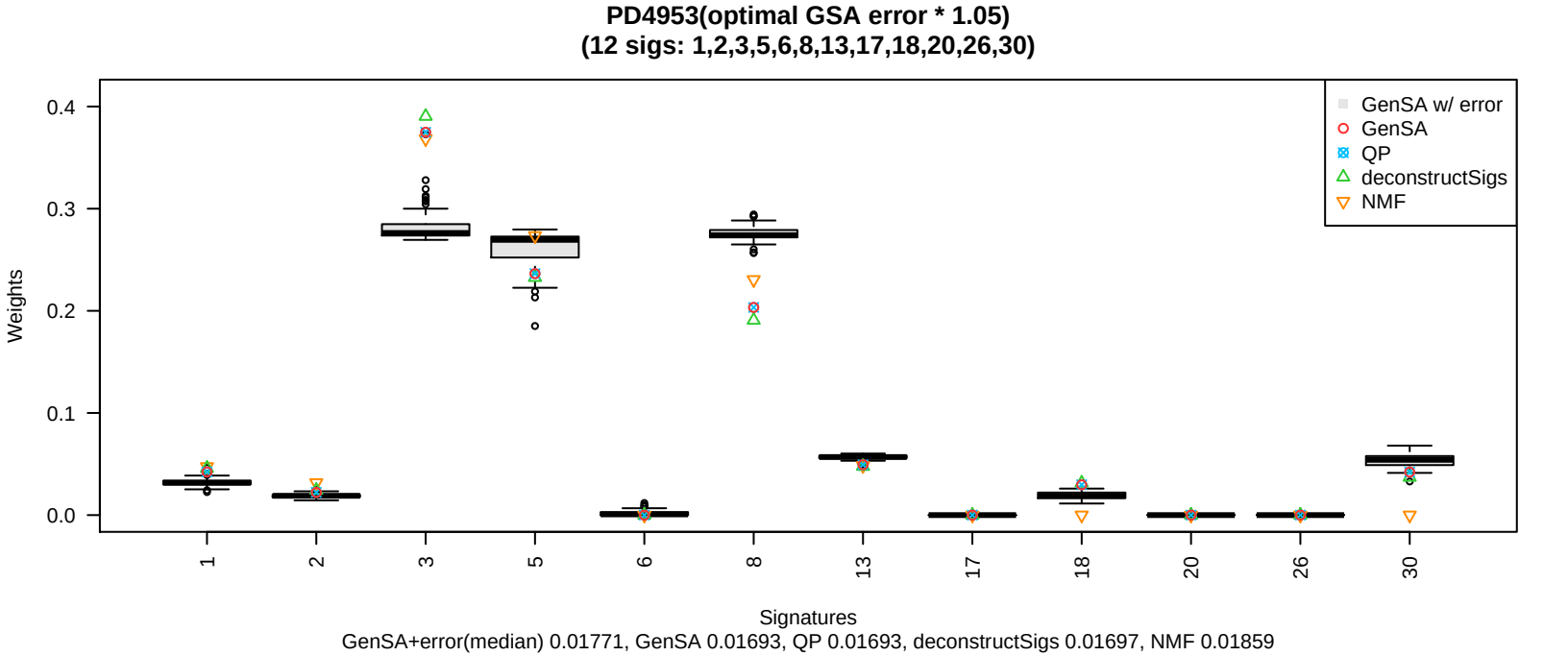
GenSA+error(median) 0.01886, GenSA 0.01819, QP 0.01819, deconstructSigs 0.01828, NMF 0.01947



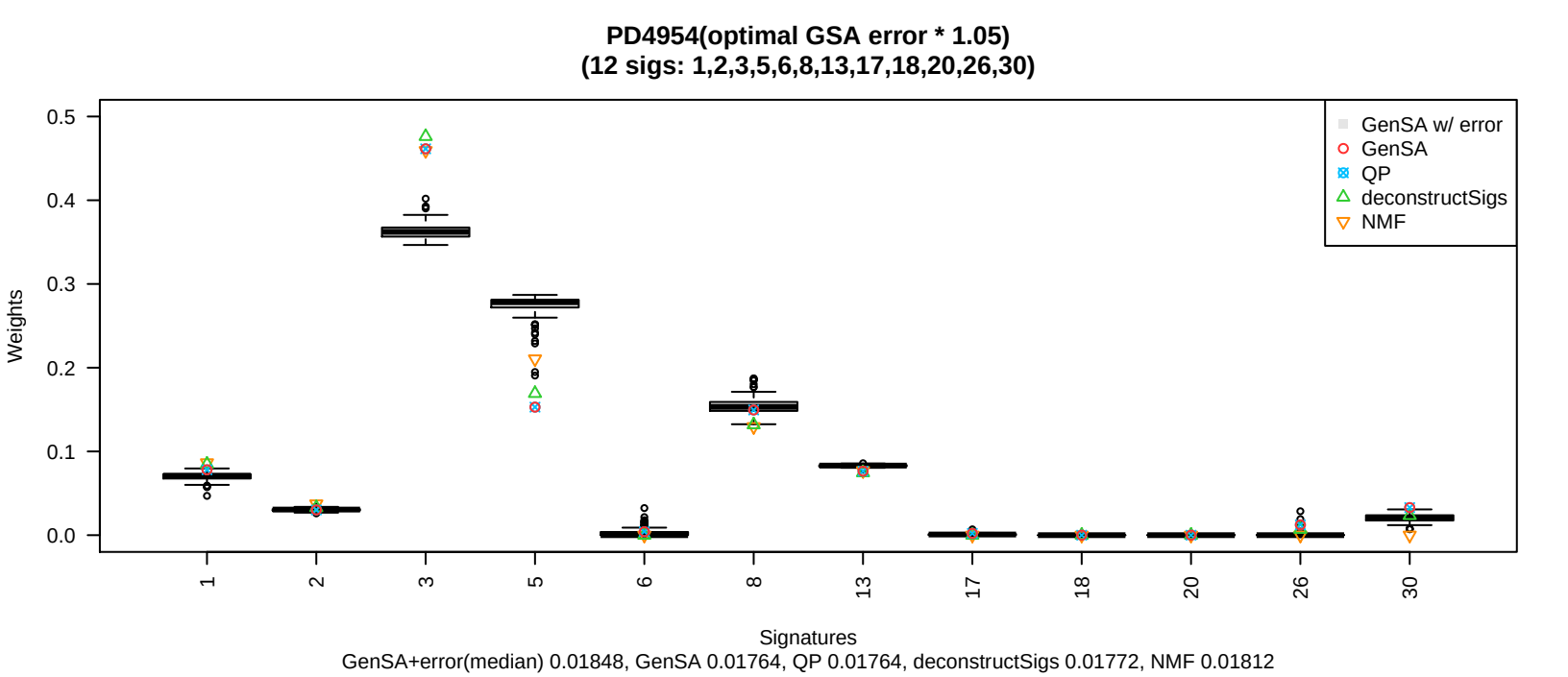
GenSA+error(median) 0.02231, GenSA 0.02146, QP 0.02146, deconstructSigs 0.02163, NMF 0.02264

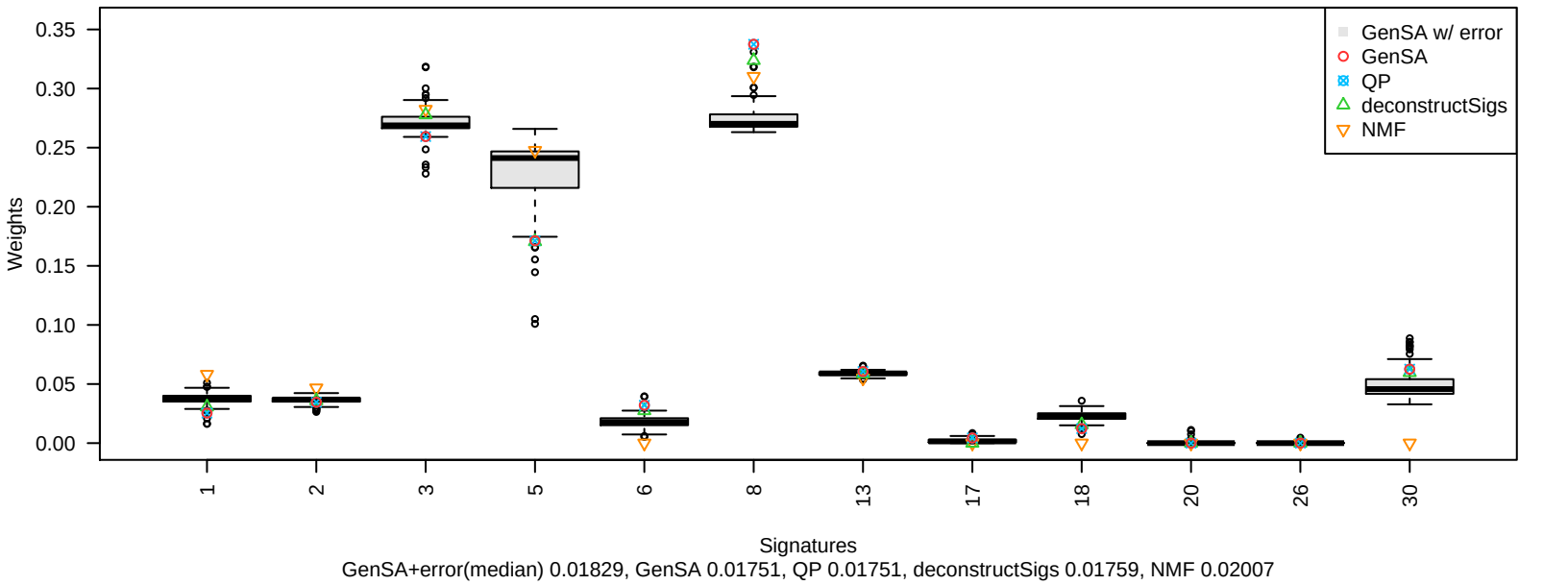


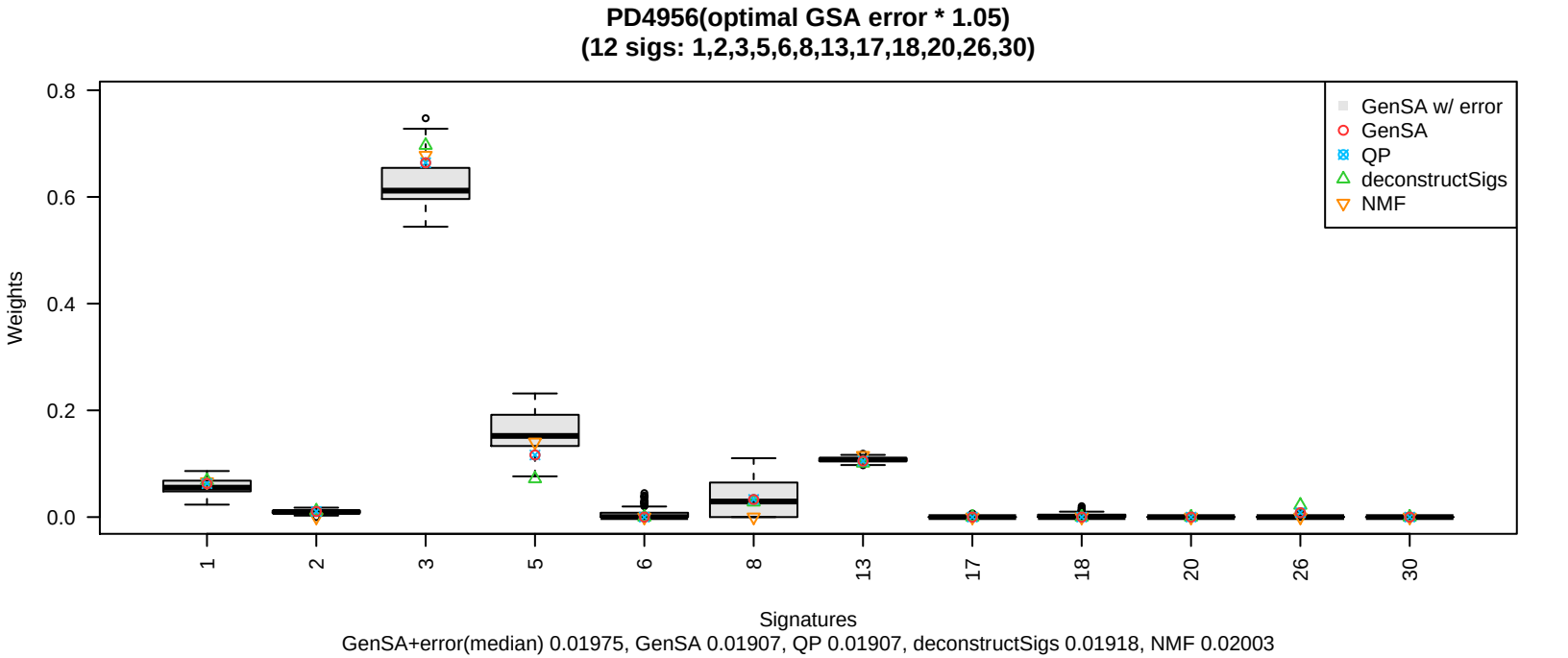
GenSA+error(median) 0.01443, GenSA 0.01381, QP 0.01381, deconstructSigs 0.01395, NMF 0.01526

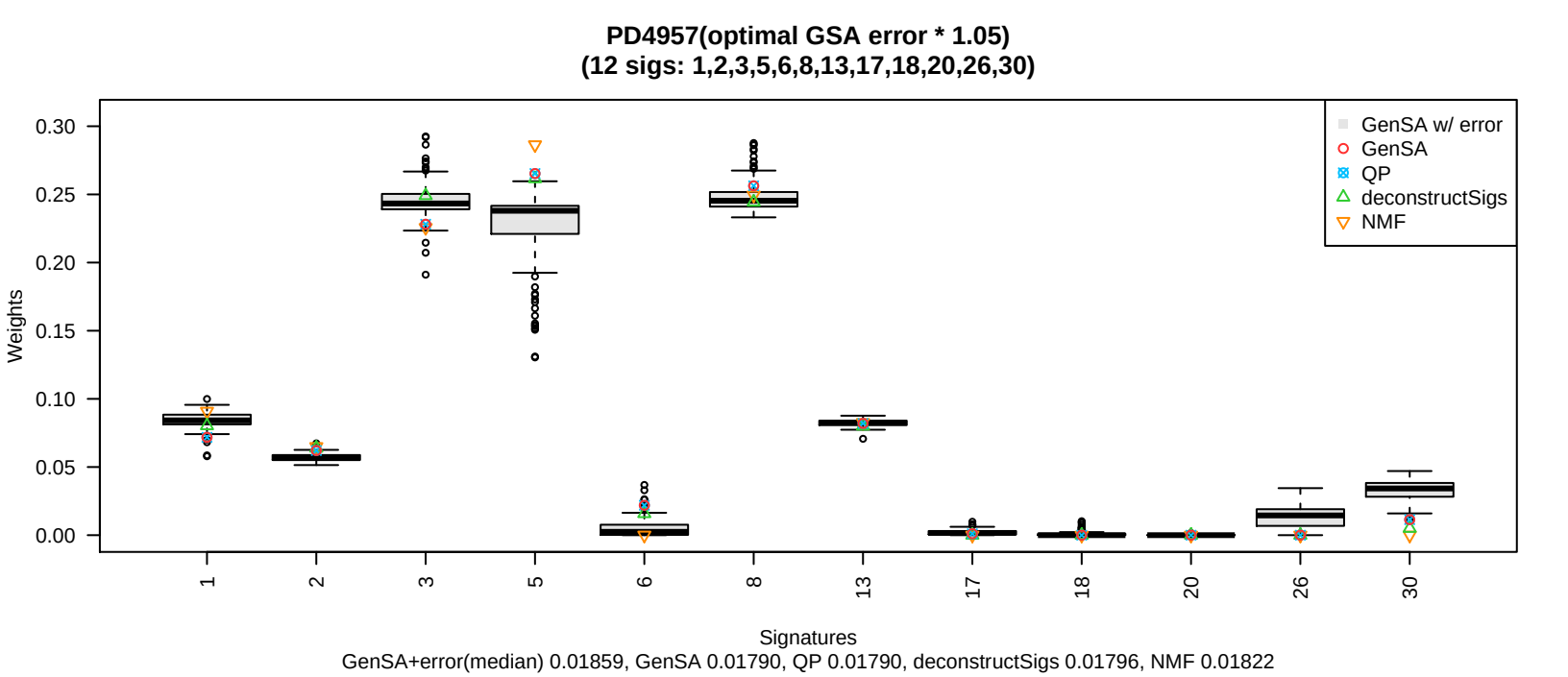


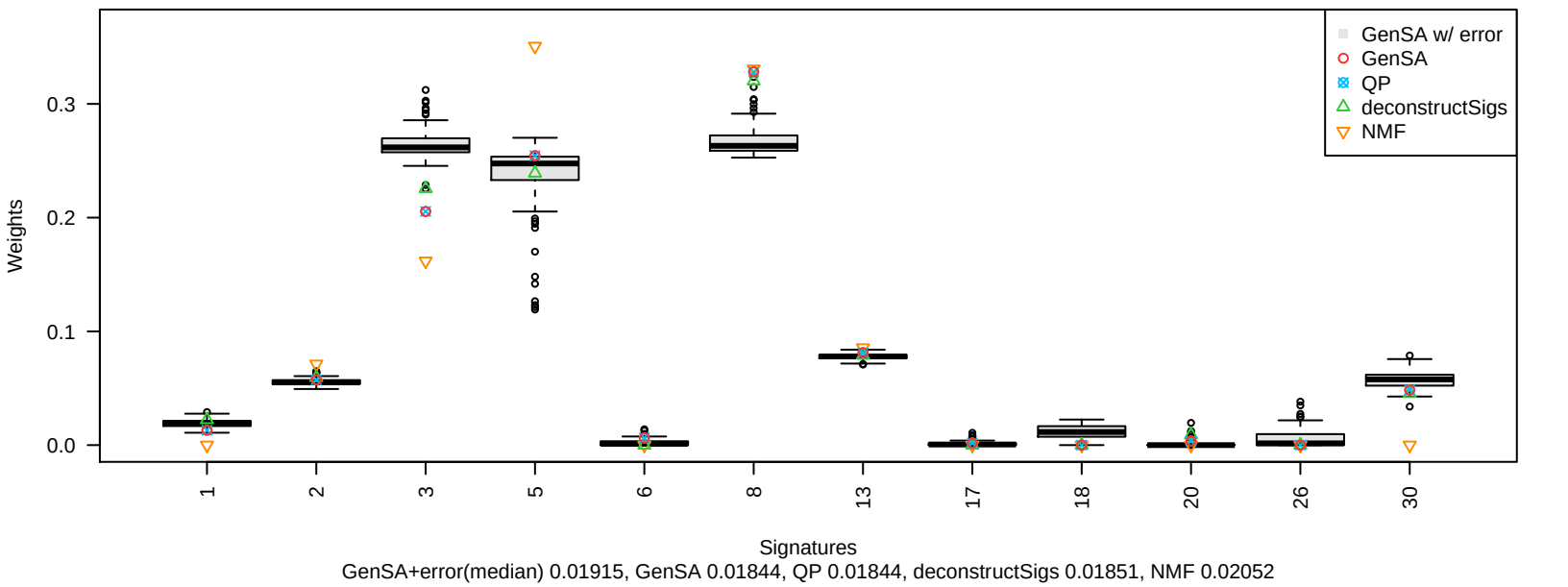
GenSA+error(median) 0.01771, GenSA 0.01693, QP 0.01693, deconstructSigs 0.01697, NMF 0.01859

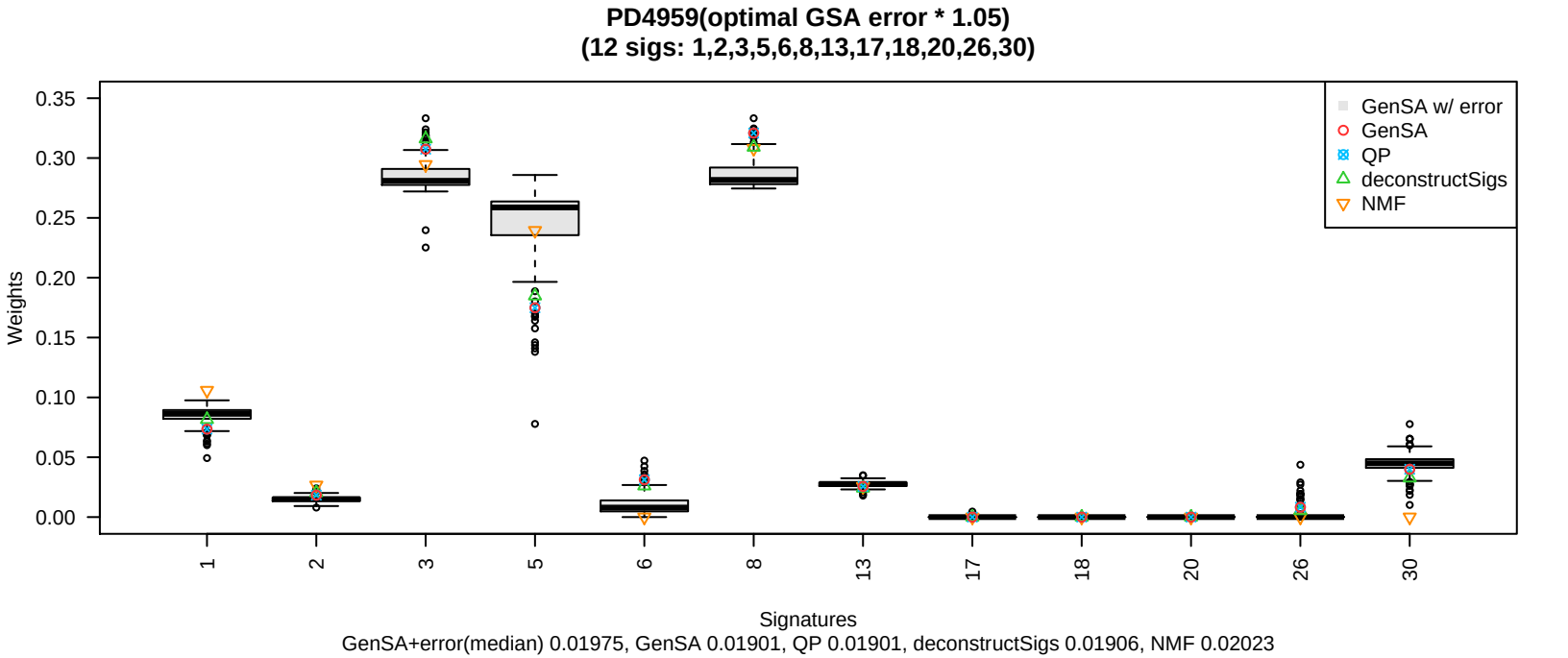

PD4954(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01848, GenSA 0.01764, QP 0.01764, deconstructSigs 0.01772, NMF 0.01812

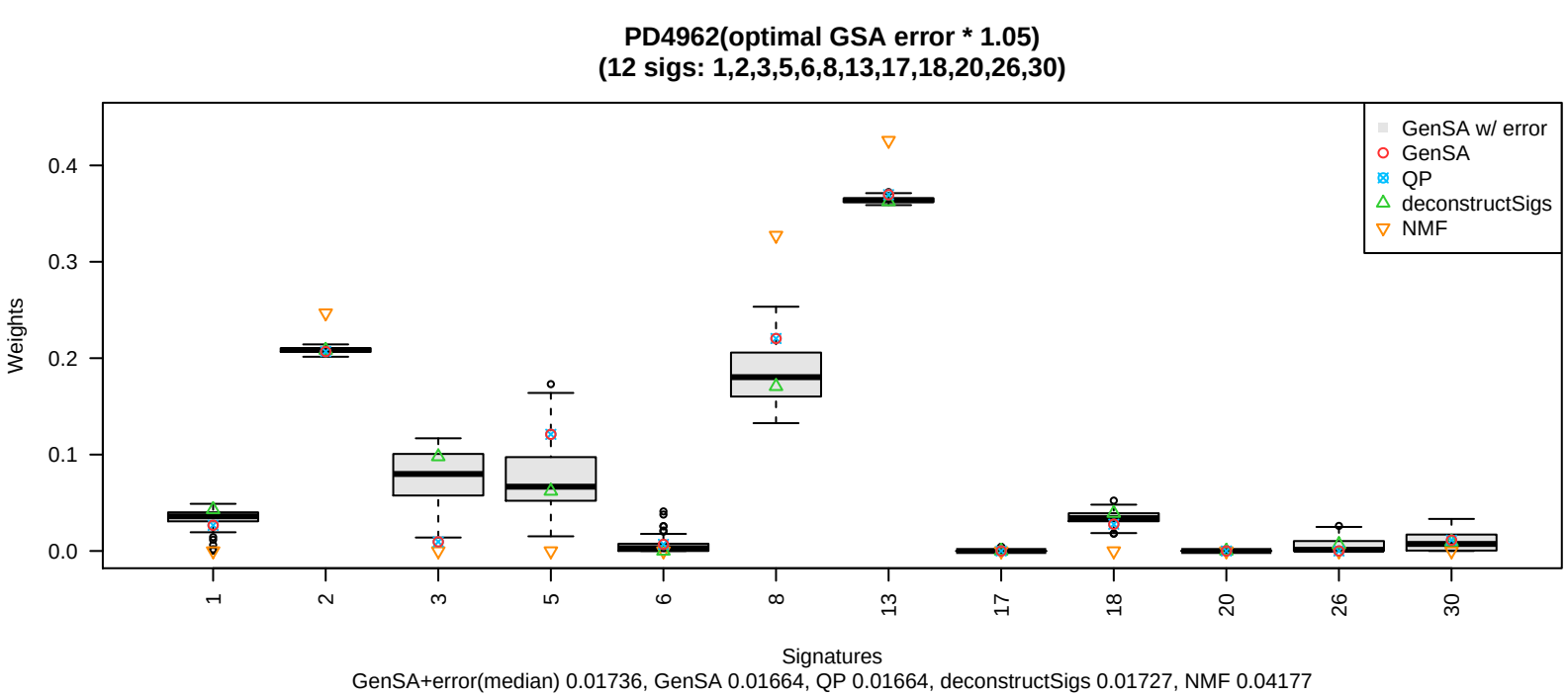

PD4955(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01829, GenSA 0.01751, QP 0.01751, deconstructSigs 0.01759, NMF 0.02007


PD4956(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.2
0.4
0.6
0.8
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01975, GenSA 0.01907, QP 0.01907, deconstructSigs 0.01918, NMF 0.02003

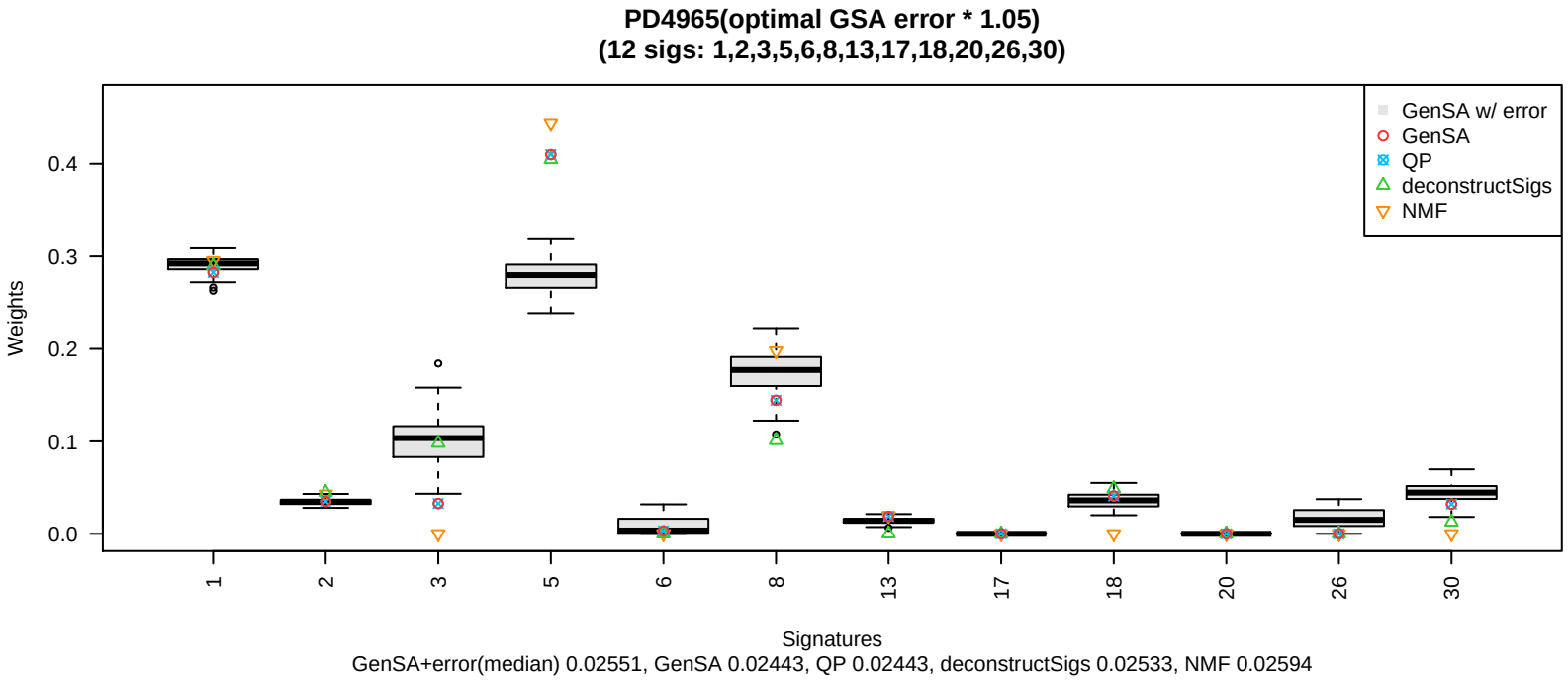

PD4957(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.00
0.05
0.10
0.15
0.20
0.25
0.30
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01859, GenSA 0.01790, QP 0.01790, deconstructSigs 0.01796, NMF 0.01822


PD4958(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01915, GenSA 0.01844, QP 0.01844, deconstructSigs 0.01851, NMF 0.02052

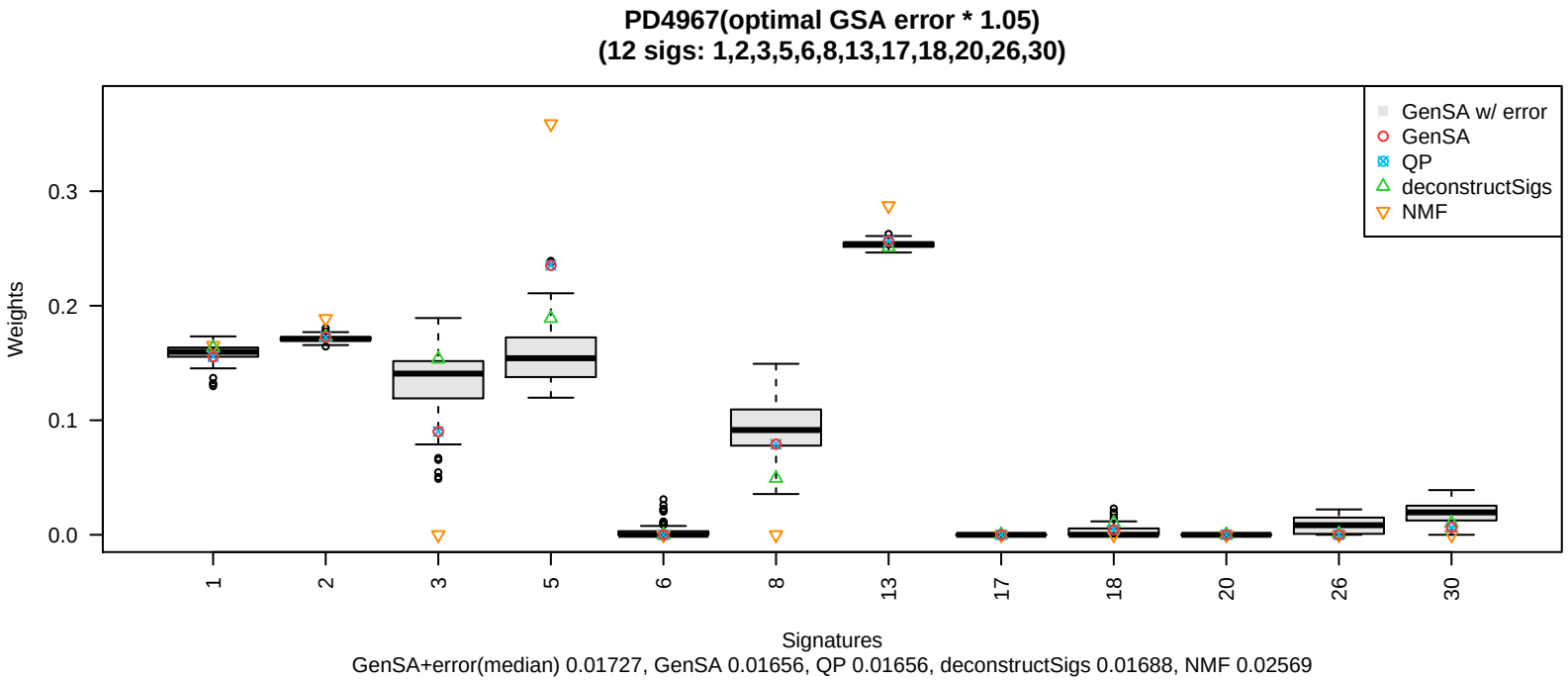

PD4959(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01975, GenSA 0.01901, QP 0.01901, deconstructSigs 0.01906, NMF 0.02023



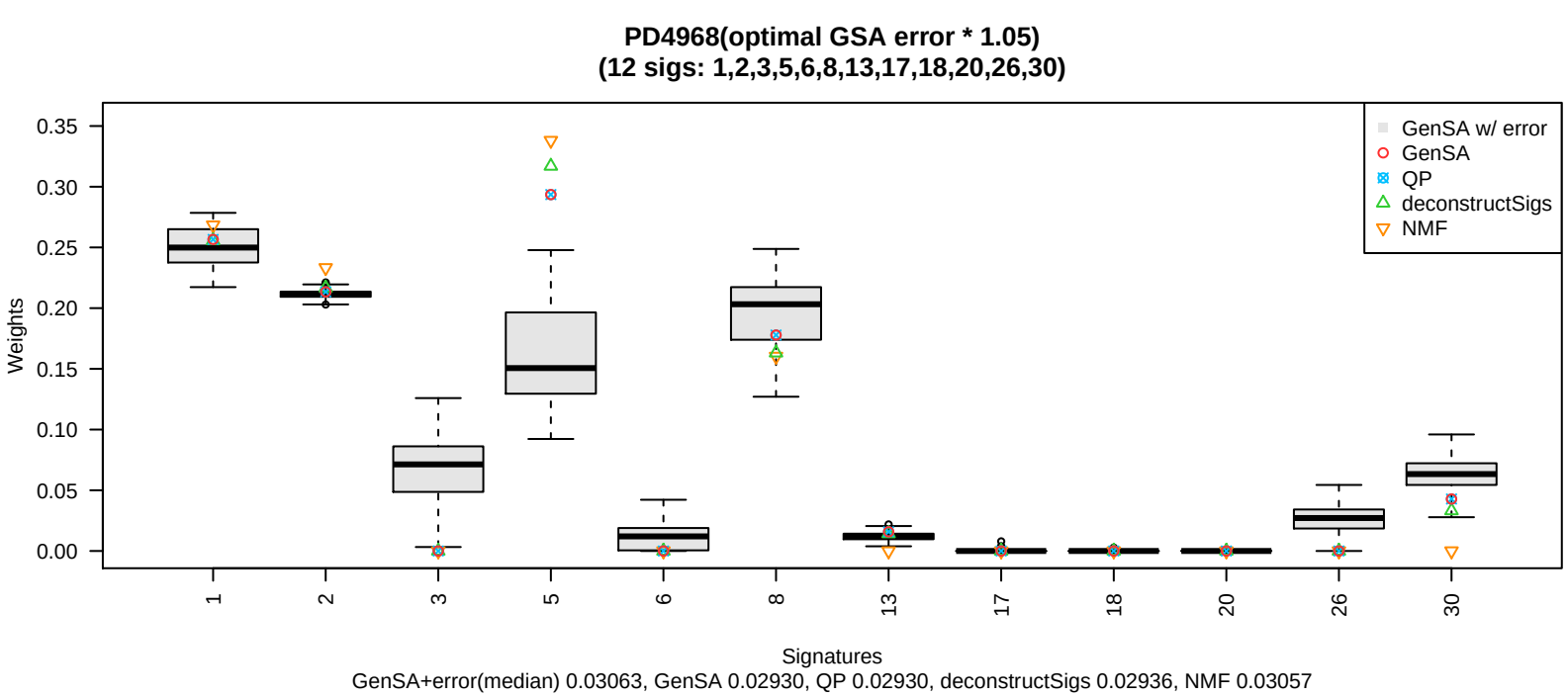
GenSA+error(median) 0.01736, GenSA 0.01664, QP 0.01664, deconstructSigs 0.01727, NMF 0.04177



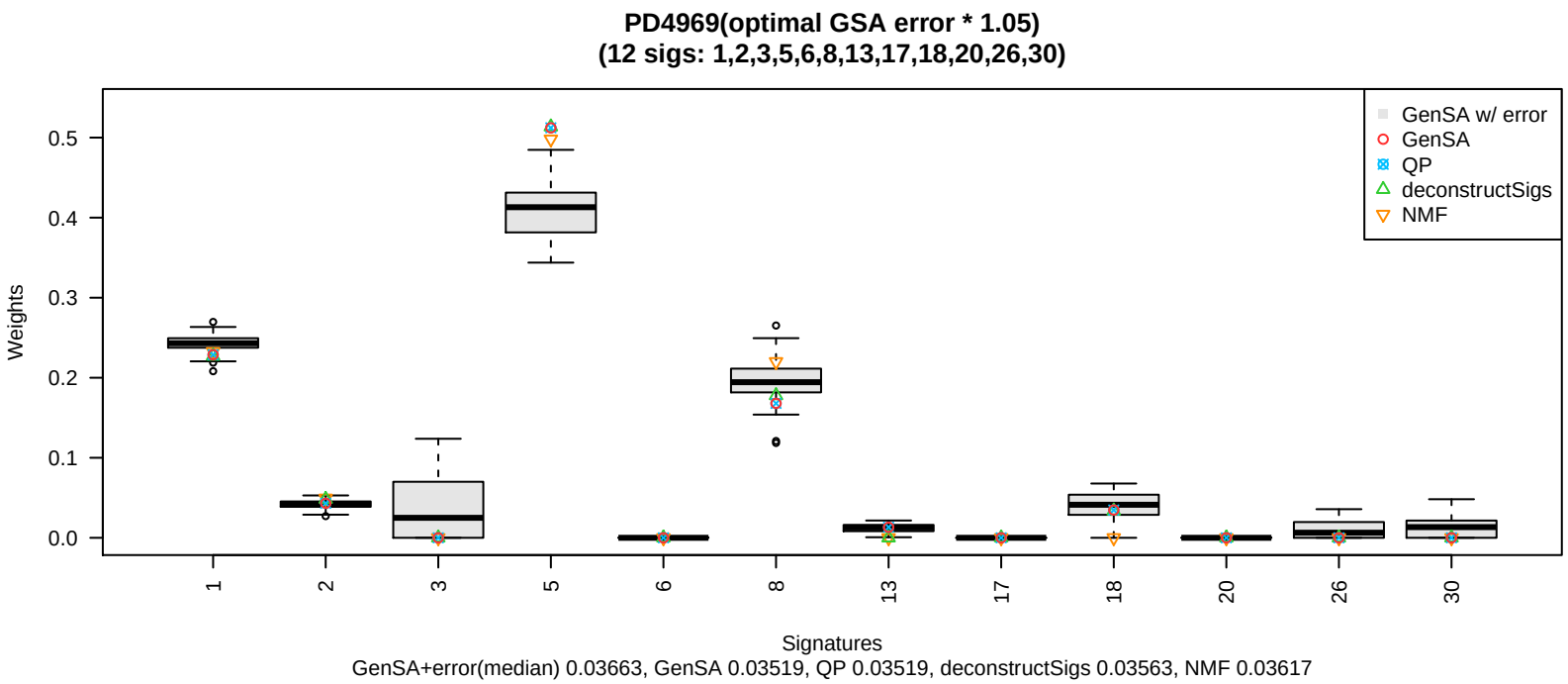
GenSA+error(median) 0.02551, GenSA 0.02443, QP 0.02443, deconstructSigs 0.02533, NMF 0.02594



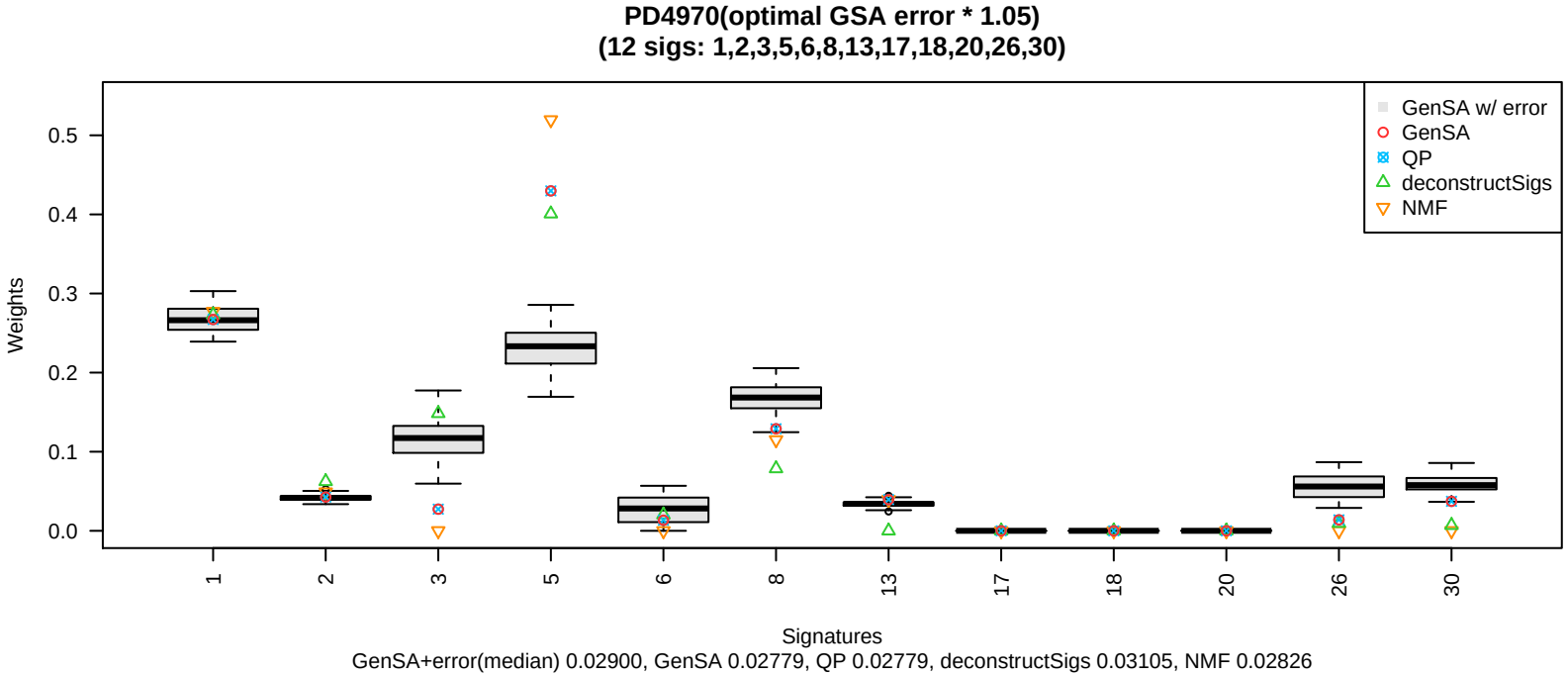
GenSA+error(median) 0.01727, GenSA 0.01656, QP 0.01656, deconstructSigs 0.01688, NMF 0.02569



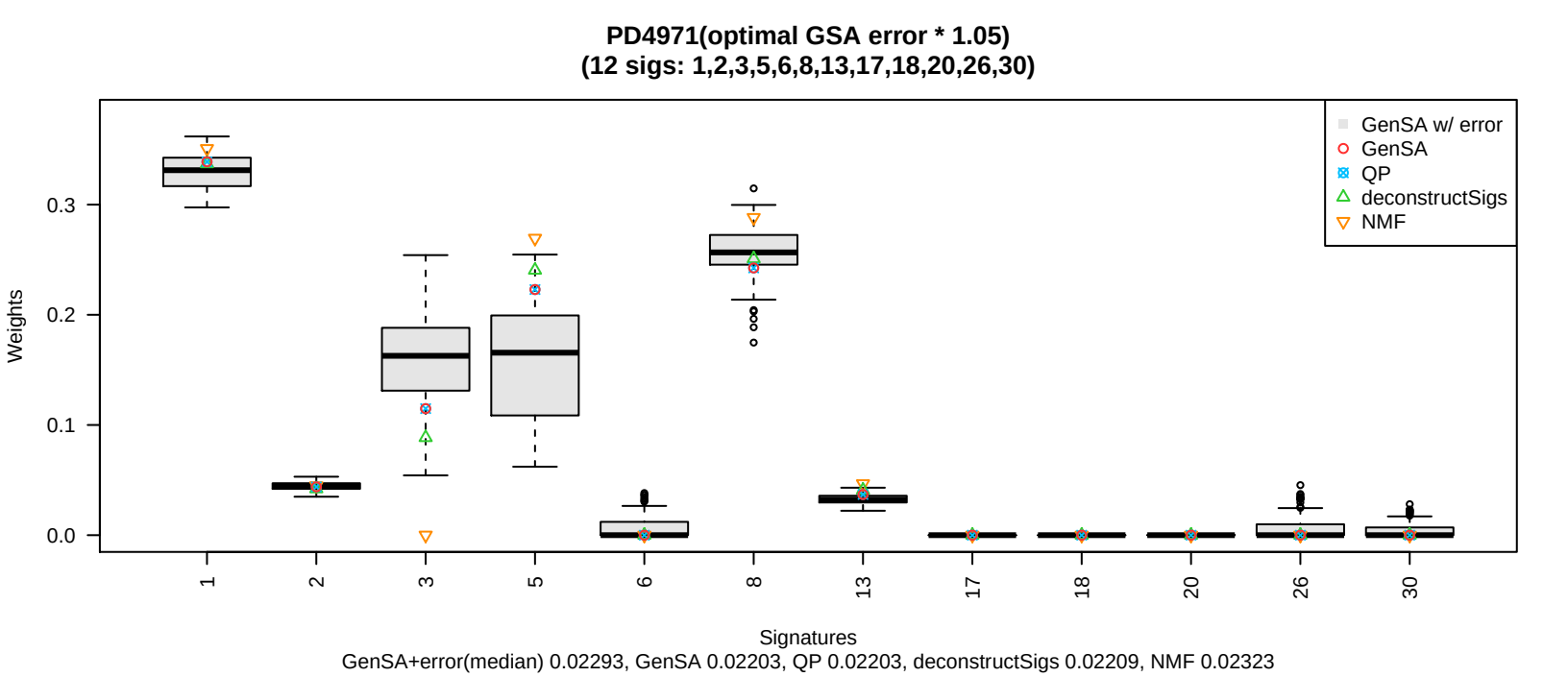
GenSA+error(median) 0.03063, GenSA 0.02930, QP 0.02930, deconstructSigs 0.02936, NMF 0.03057



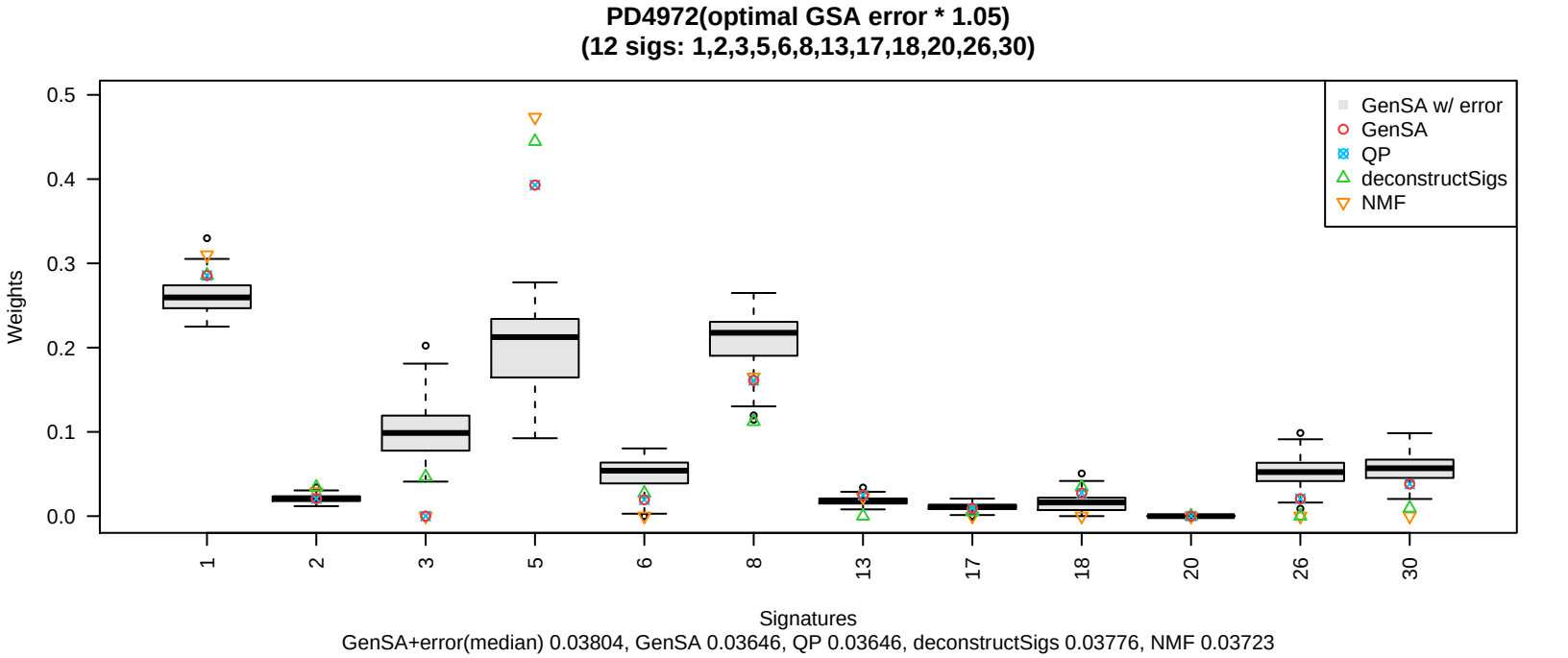
GenSA+error(median) 0.03663, GenSA 0.03519, QP 0.03519, deconstructSigs 0.03563, NMF 0.03617



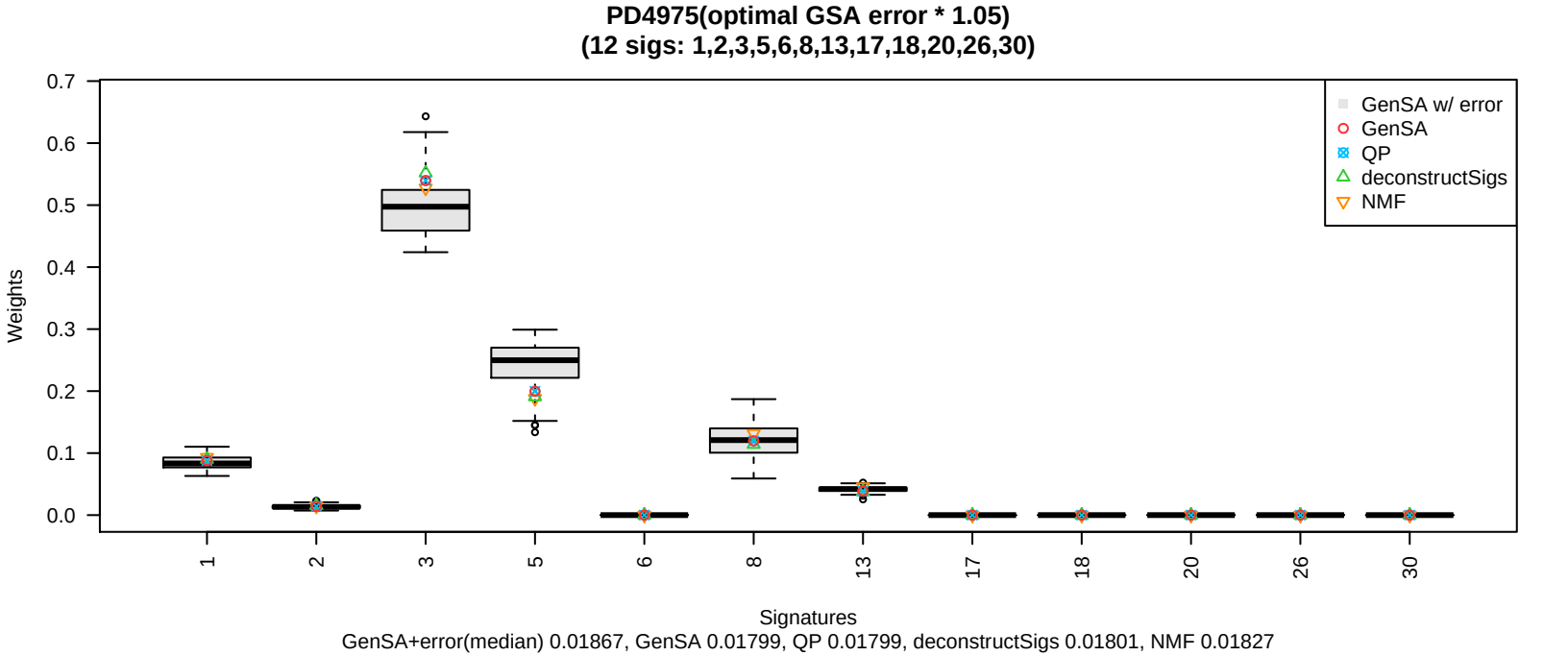
GenSA+error(median) 0.02900, GenSA 0.02779, QP 0.02779, deconstructSigs 0.03105, NMF 0.02826



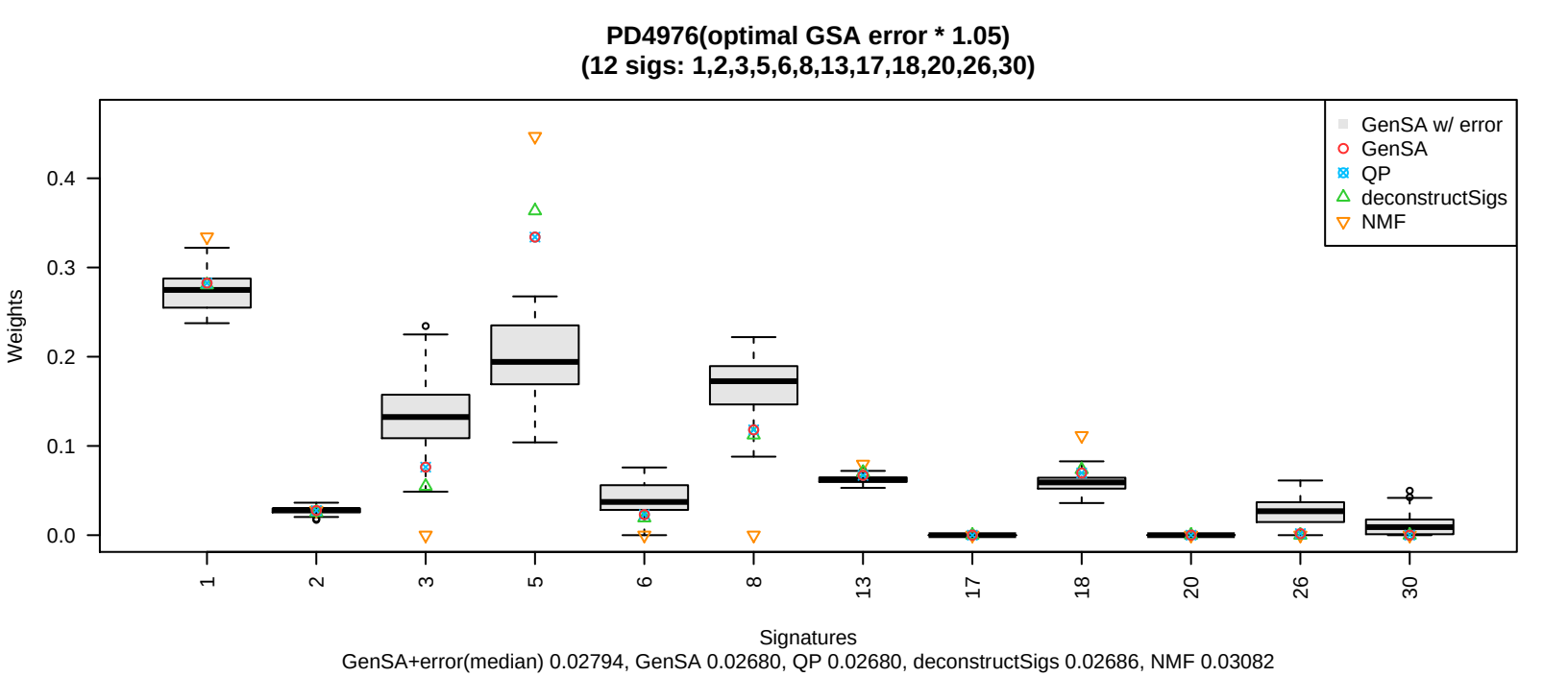
GenSA+error(median) 0.02293, GenSA 0.02203, QP 0.02203, deconstructSigs 0.02209, NMF 0.02323



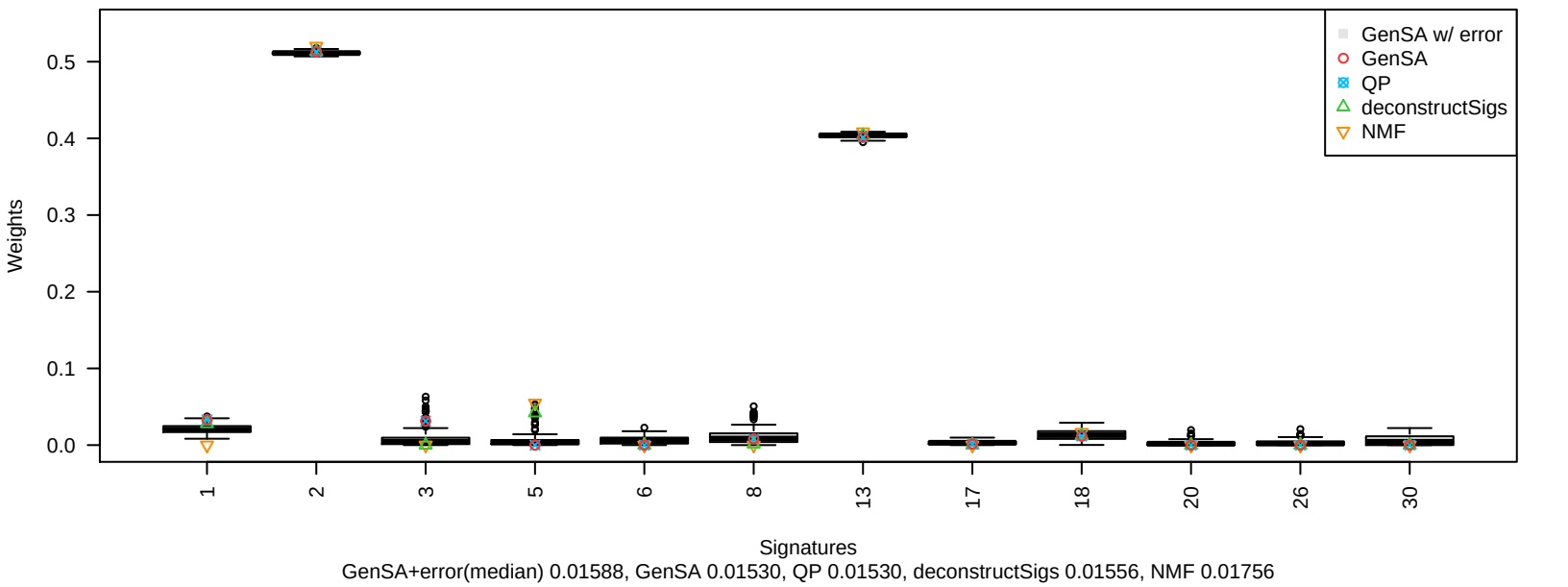
GenSA+error(median) 0.03804, GenSA 0.03646, QP 0.03646, deconstructSigs 0.03776, NMF 0.03723



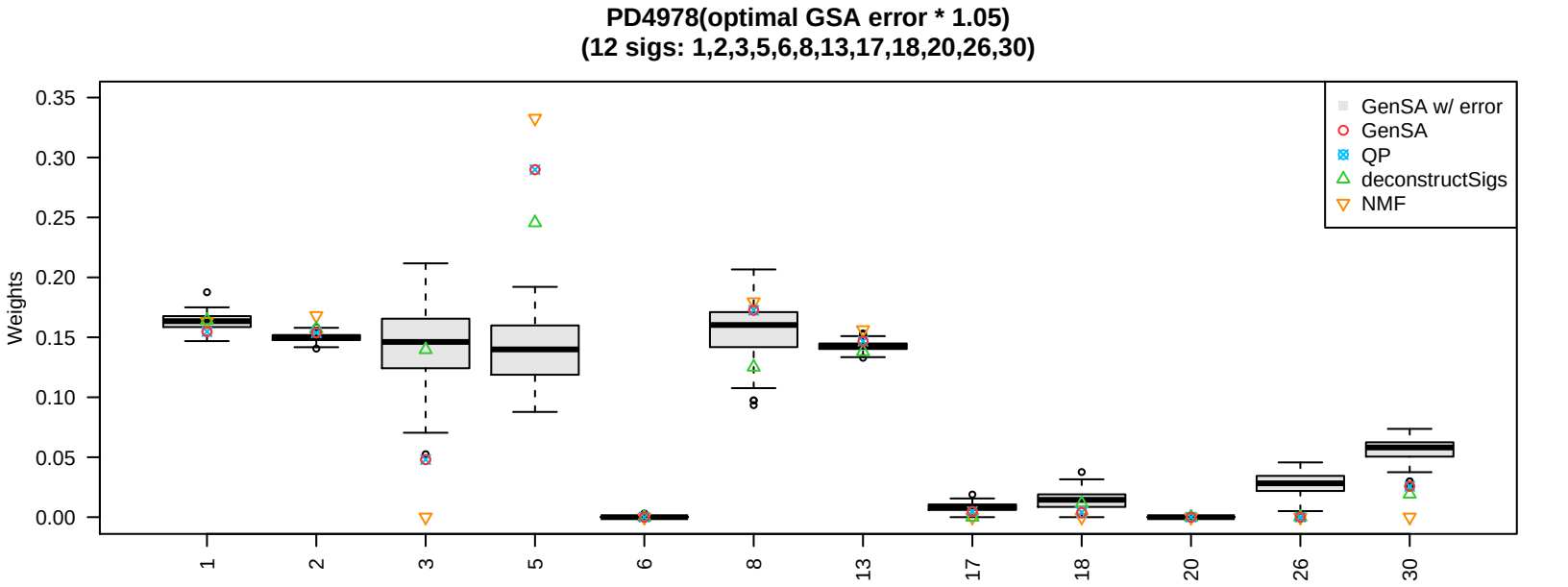
GenSA+error(median) 0.01867, GenSA 0.01799, QP 0.01799, deconstructSigs 0.01801, NMF 0.01827



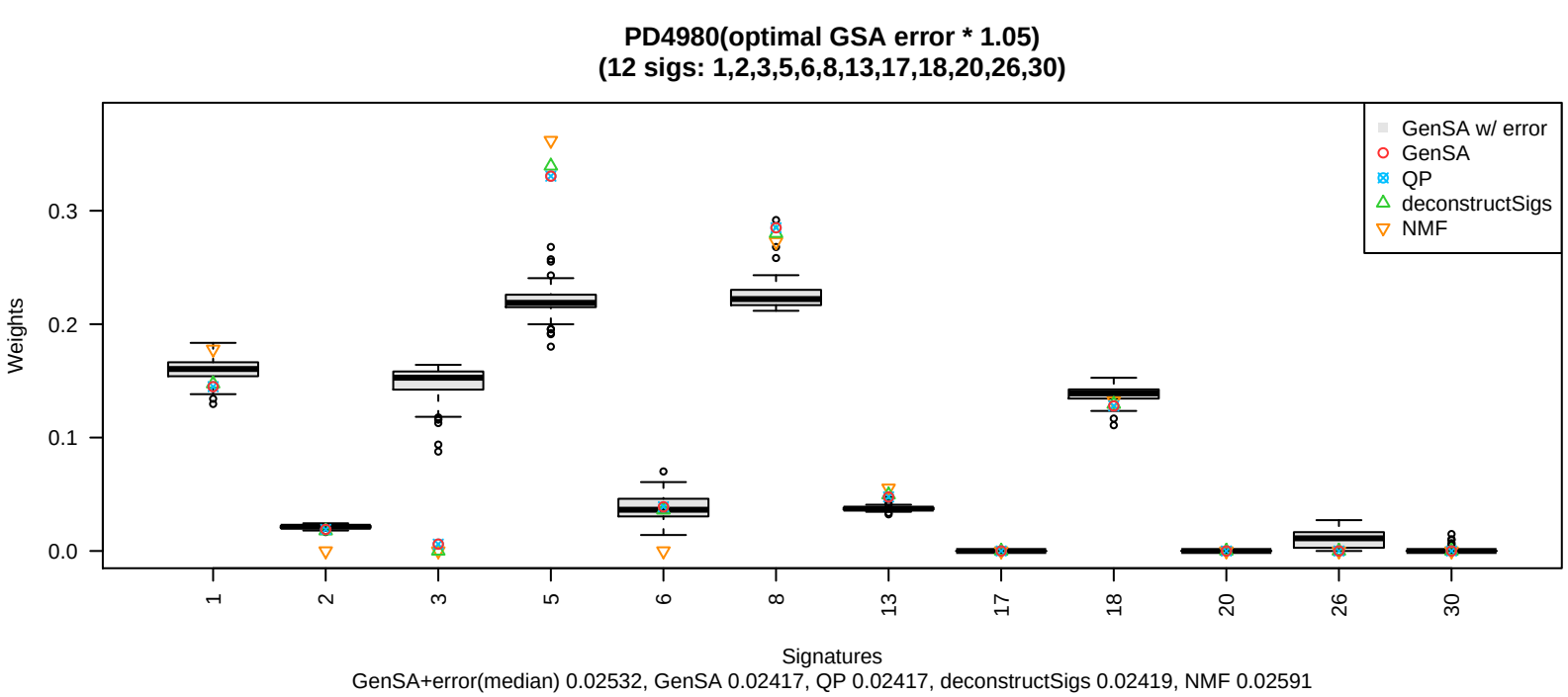
GenSA+error(median) 0.02794, GenSA 0.02680, QP 0.02680, deconstructSigs 0.02686, NMF 0.03082



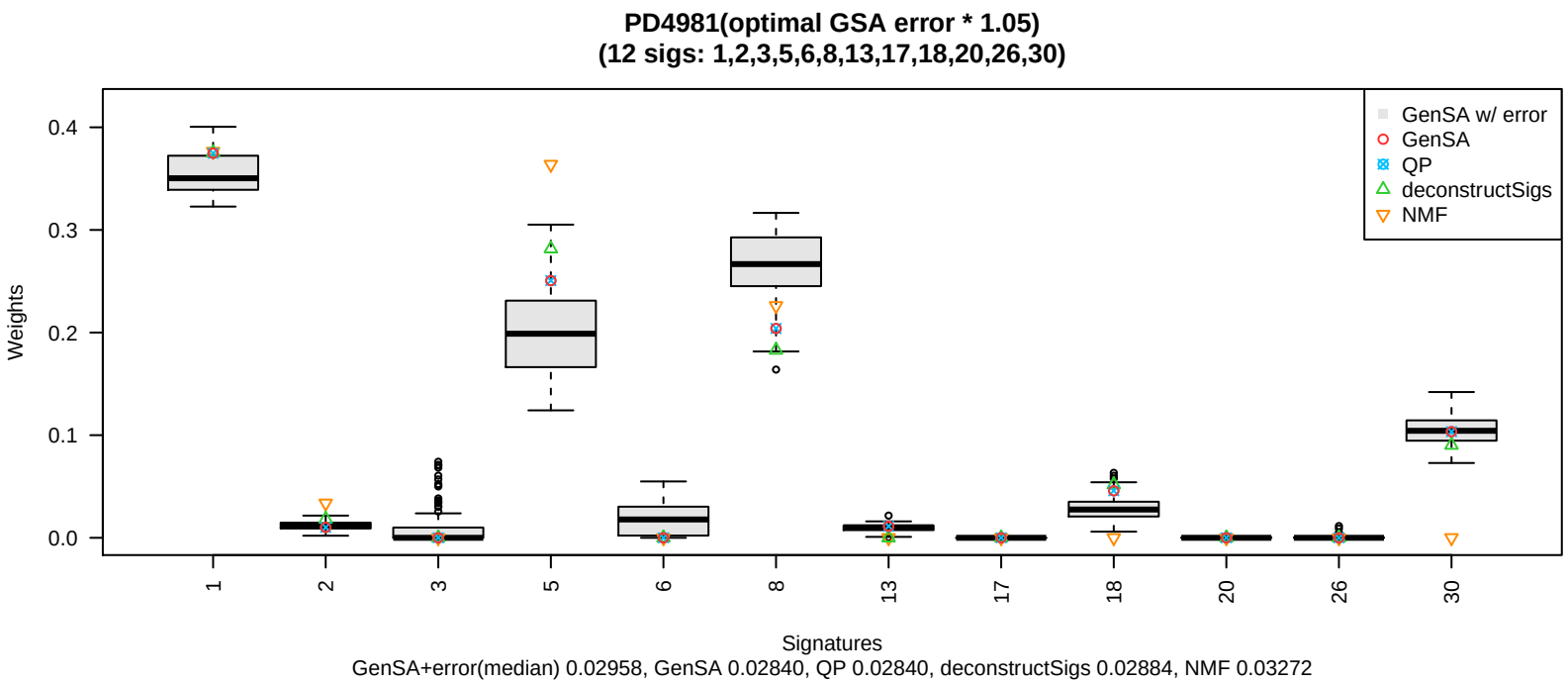
GenSA+error(median) 0.01588, GenSA 0.01530, QP 0.01530, deconstructSigs 0.01556, NMF 0.01756



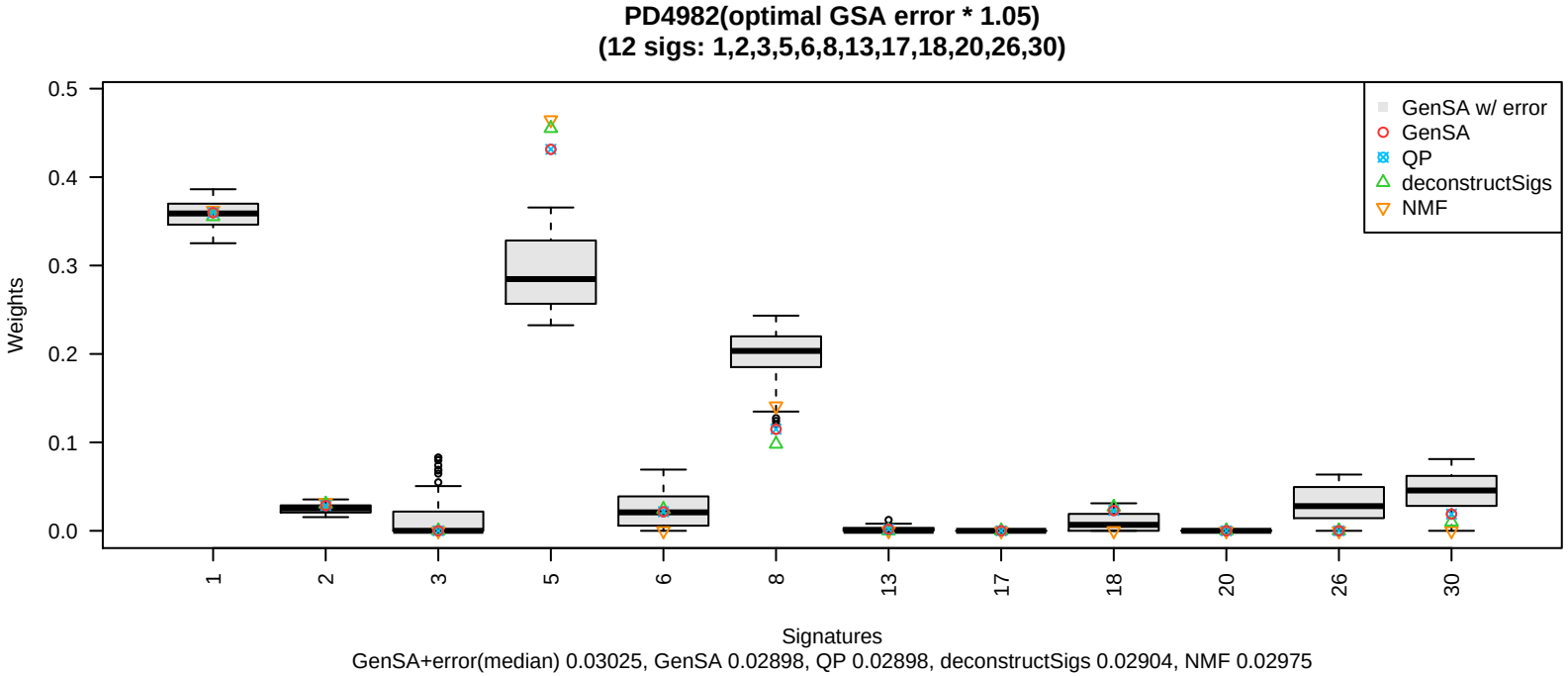
GenSA+error(median) 0.03041, GenSA 0.02913, QP 0.02913, deconstructSigs 0.02948, NMF 0.03030



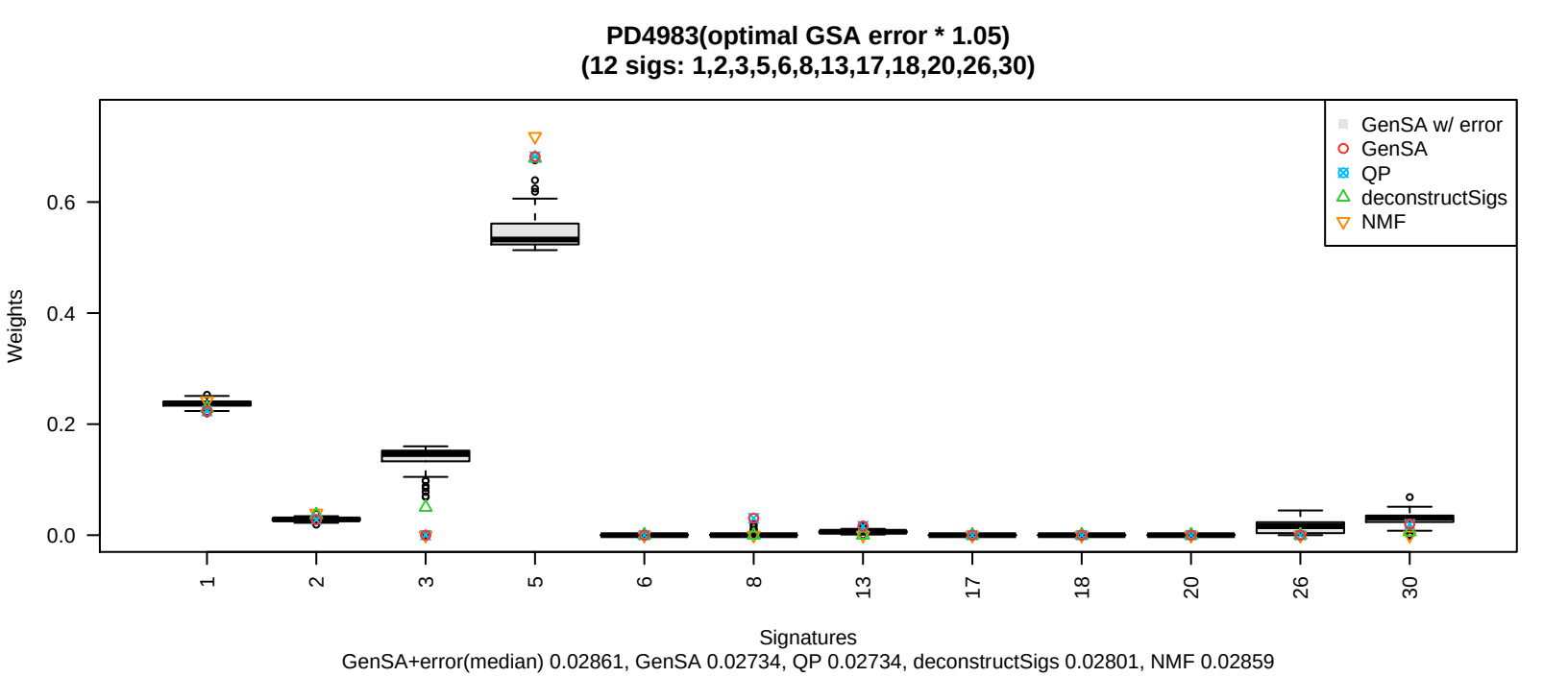
GenSA+error(median) 0.02532, GenSA 0.02417, QP 0.02417, deconstructSigs 0.02419, NMF 0.02591

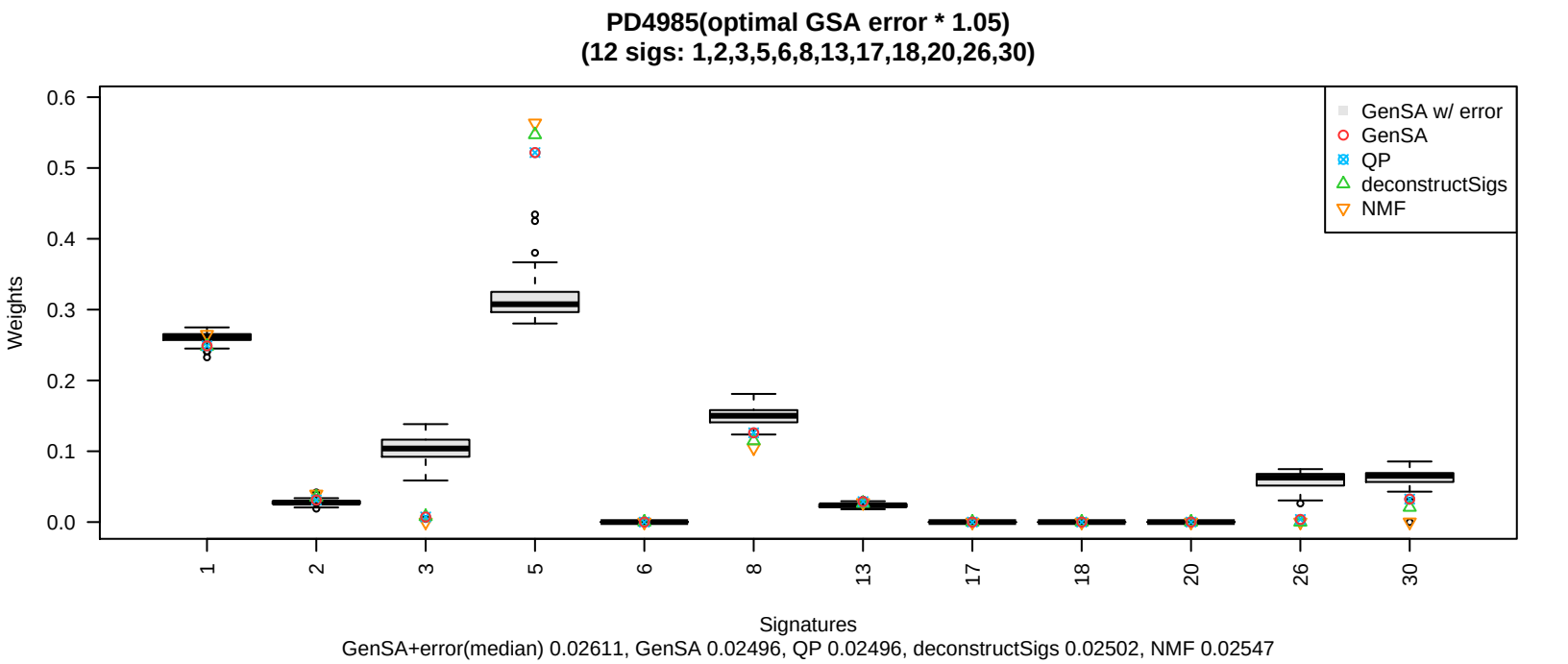


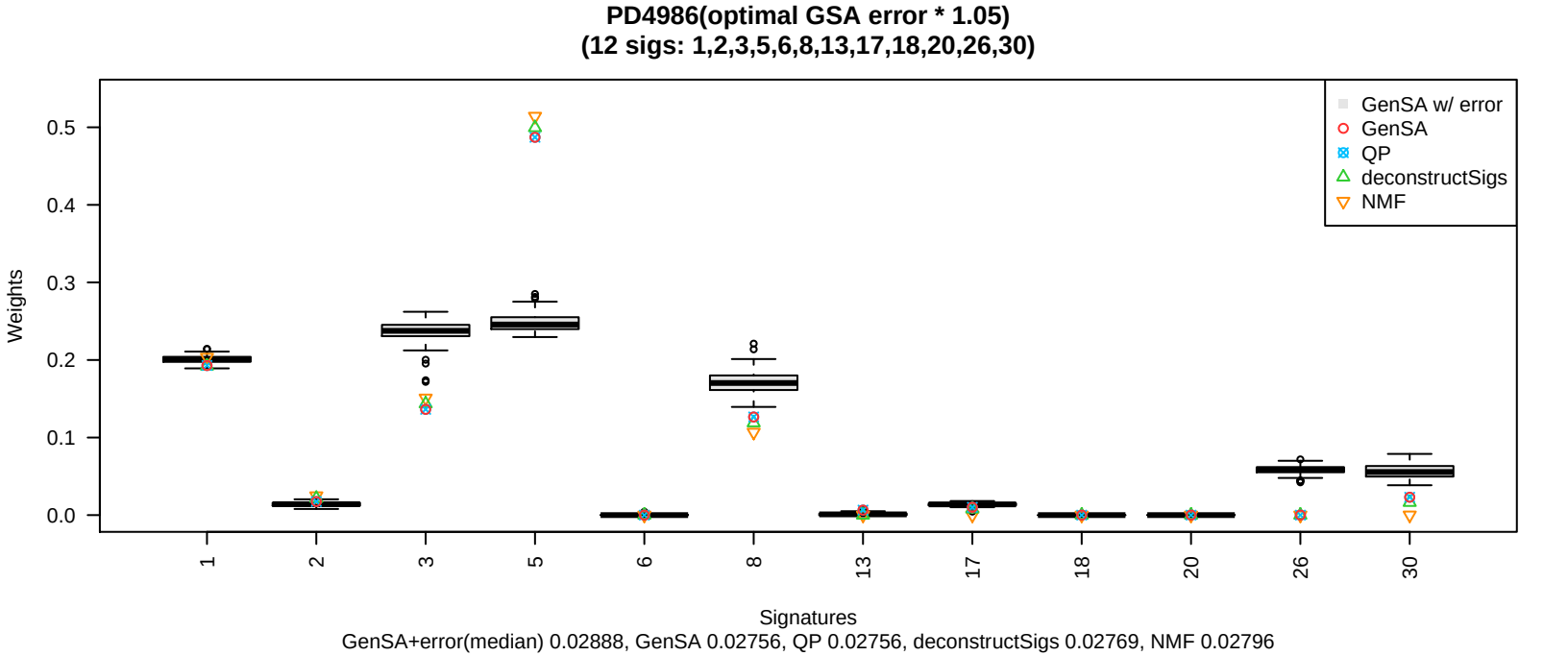
GenSA+error(median) 0.02958, GenSA 0.02840, QP 0.02840, deconstructSigs 0.02884, NMF 0.03272

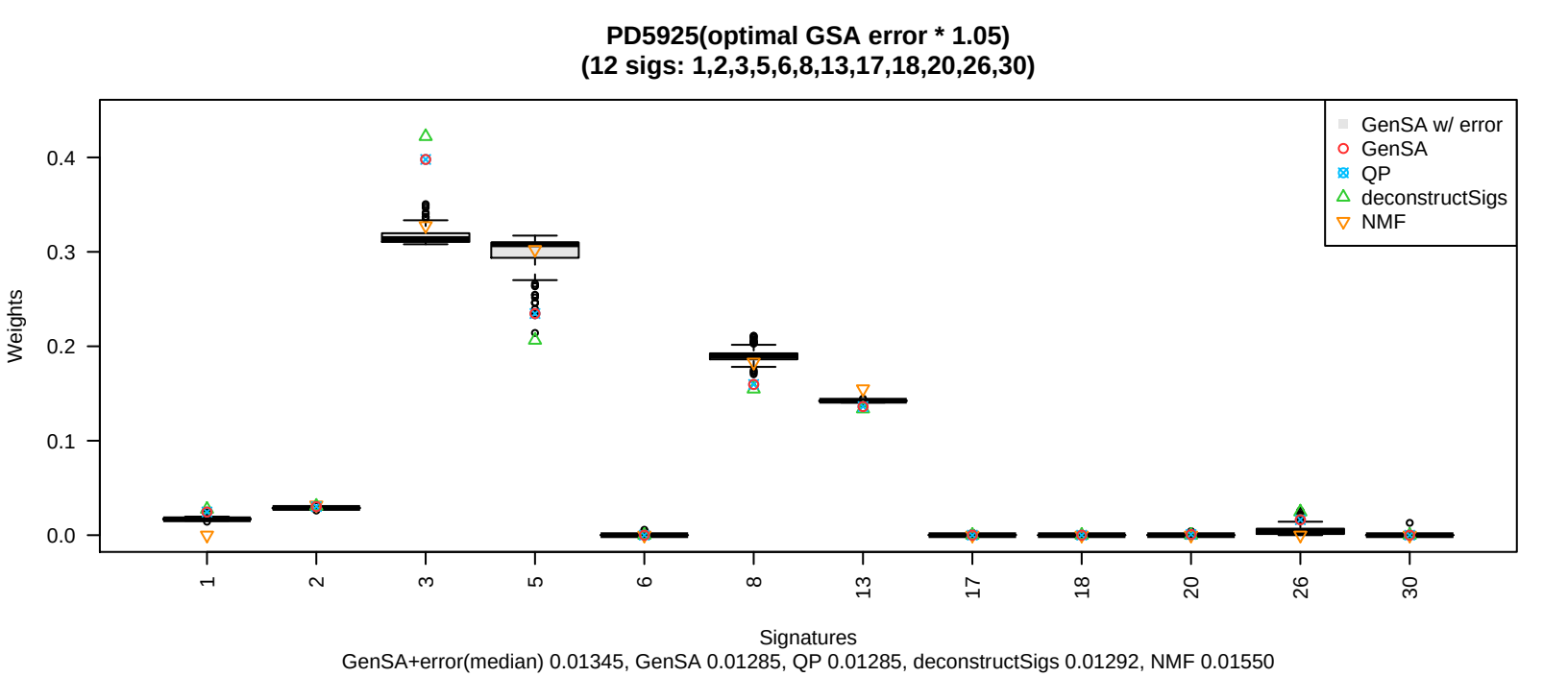


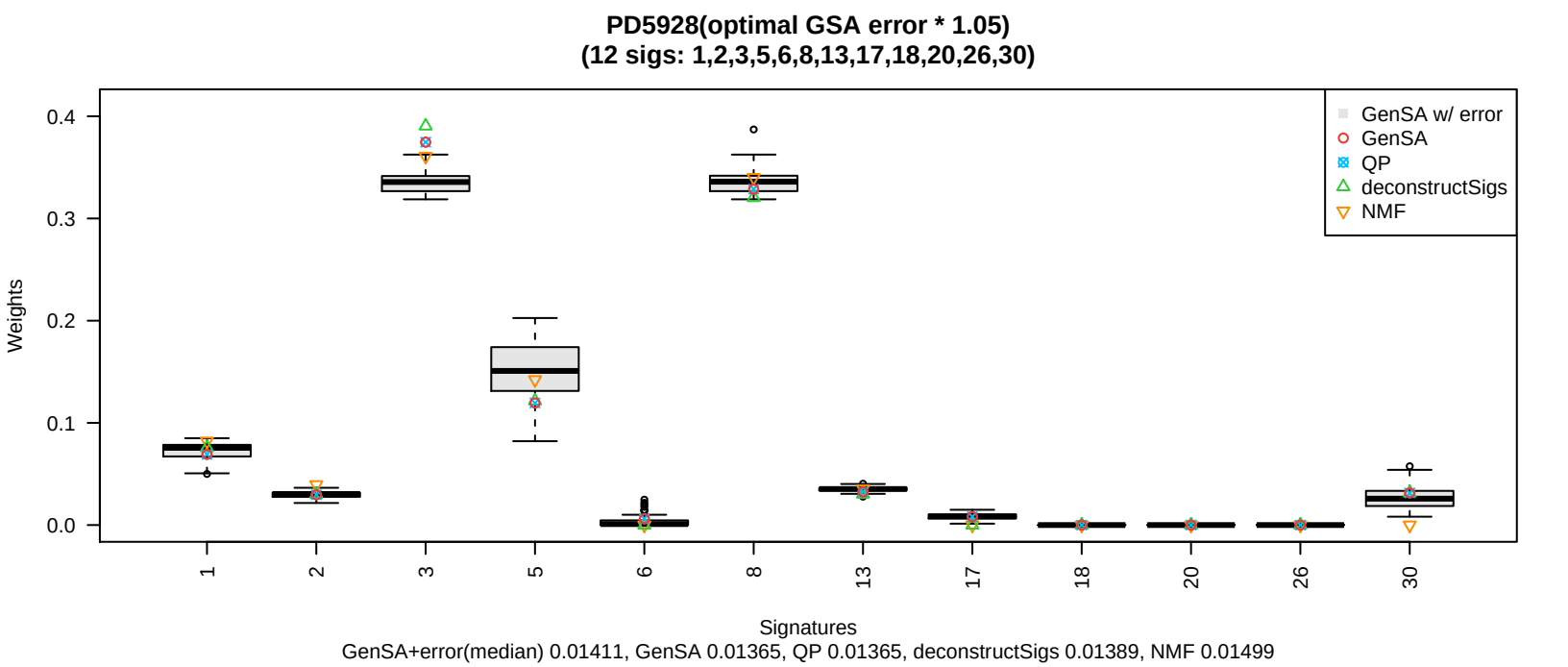
GenSA+error(median) 0.03025, GenSA 0.02898, QP 0.02898, deconstructSigs 0.02904, NMF 0.02975

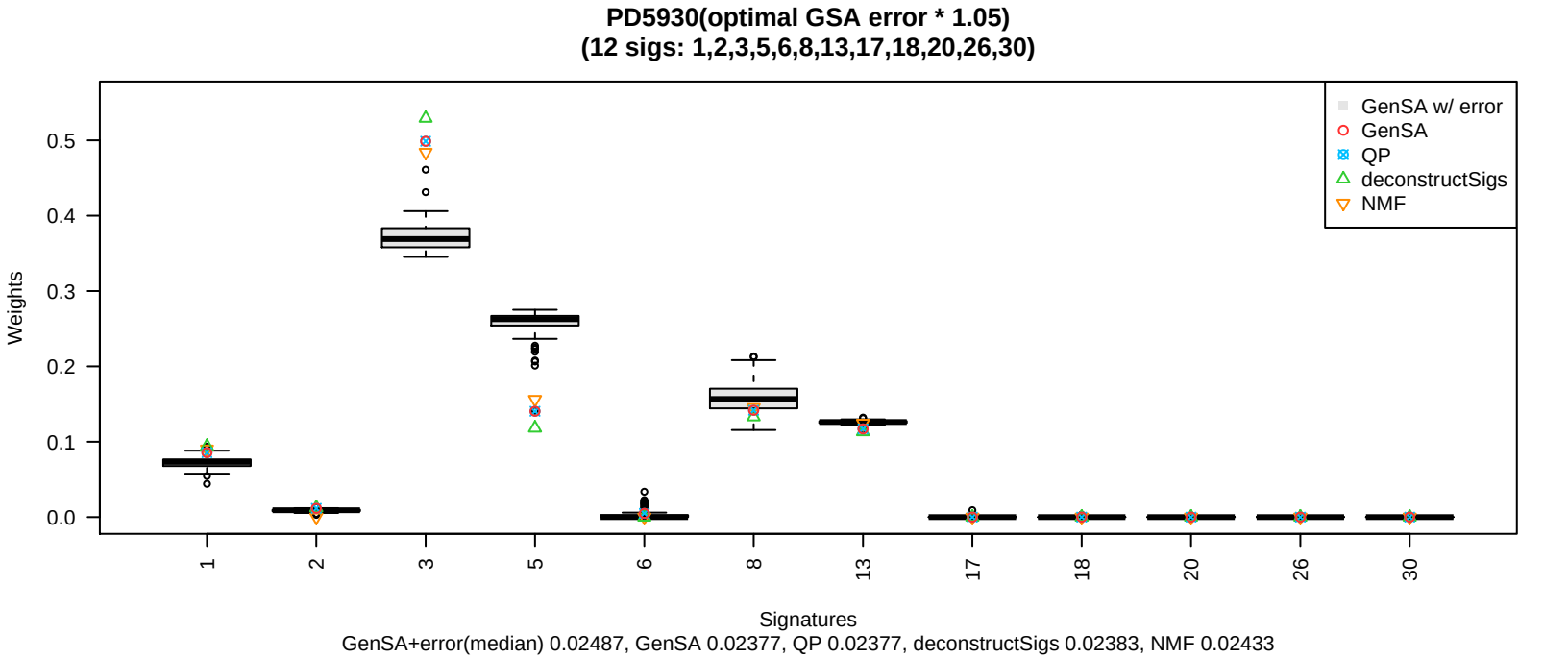

PD4983(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.2
0.4
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02861, GenSA 0.02734, QP 0.02734, deconstructSigs 0.02801, NMF 0.02859

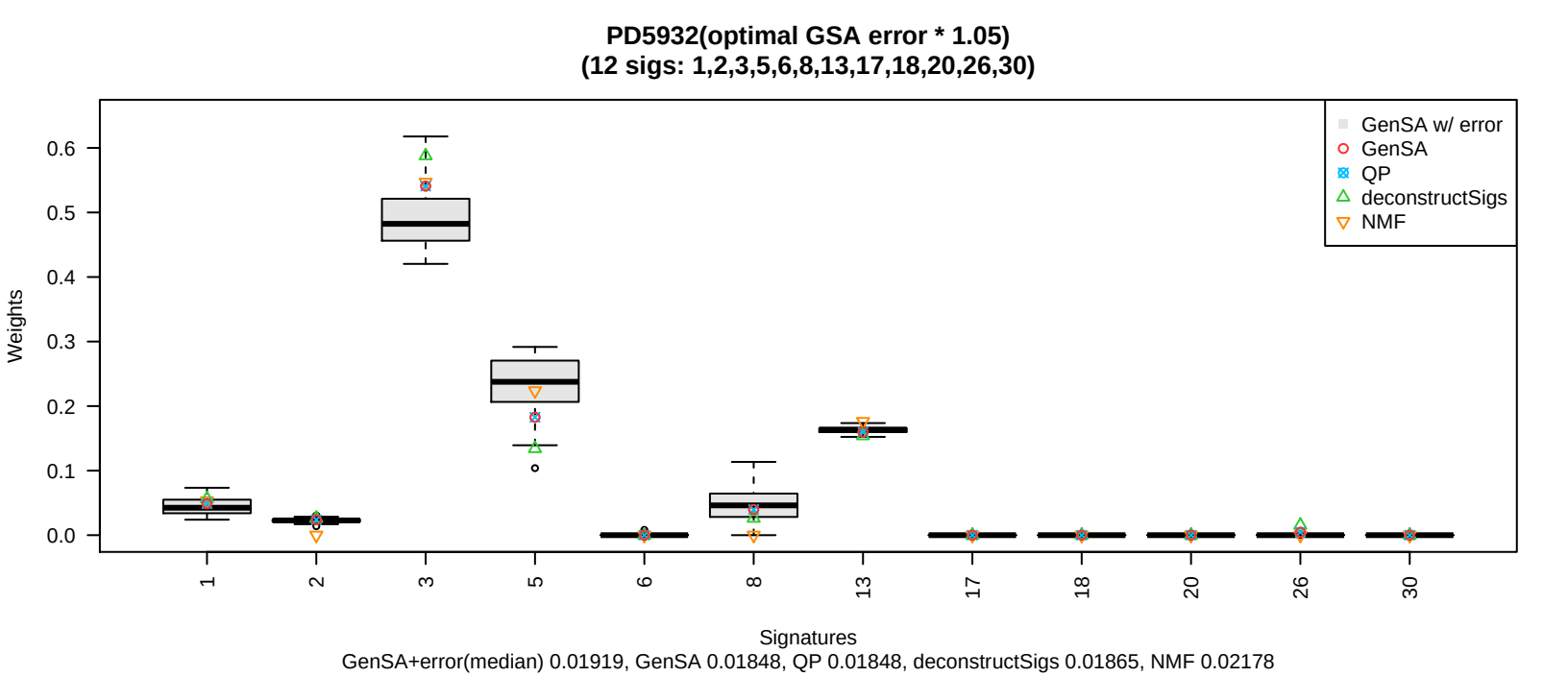

PD4985(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02611, GenSA 0.02496, QP 0.02496, deconstructSigs 0.02502, NMF 0.02547


PD4986(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02888, GenSA 0.02756, QP 0.02756, deconstructSigs 0.02769, NMF 0.02796

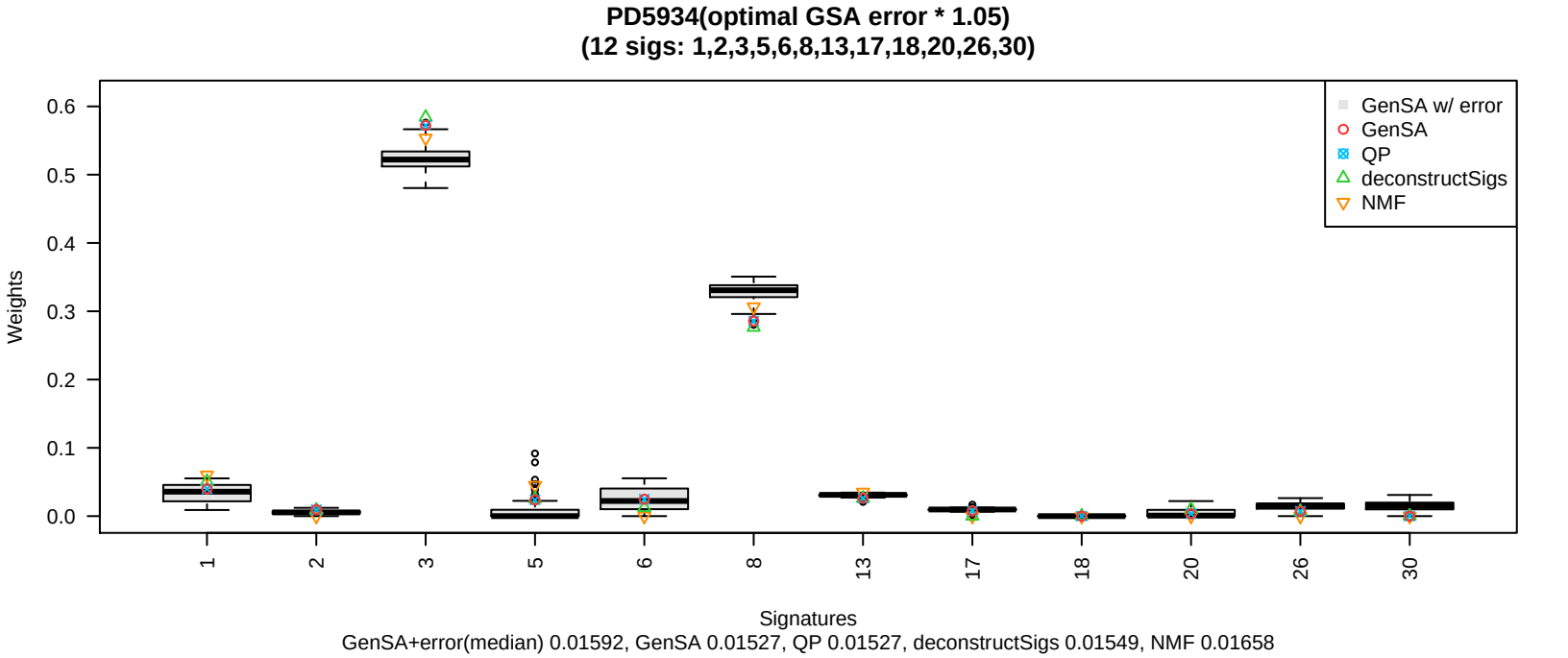

PD5925(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01345, GenSA 0.01285, QP 0.01285, deconstructSigs 0.01292, NMF 0.01550


PD5928(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01411, GenSA 0.01365, QP 0.01365, deconstructSigs 0.01389, NMF 0.01499

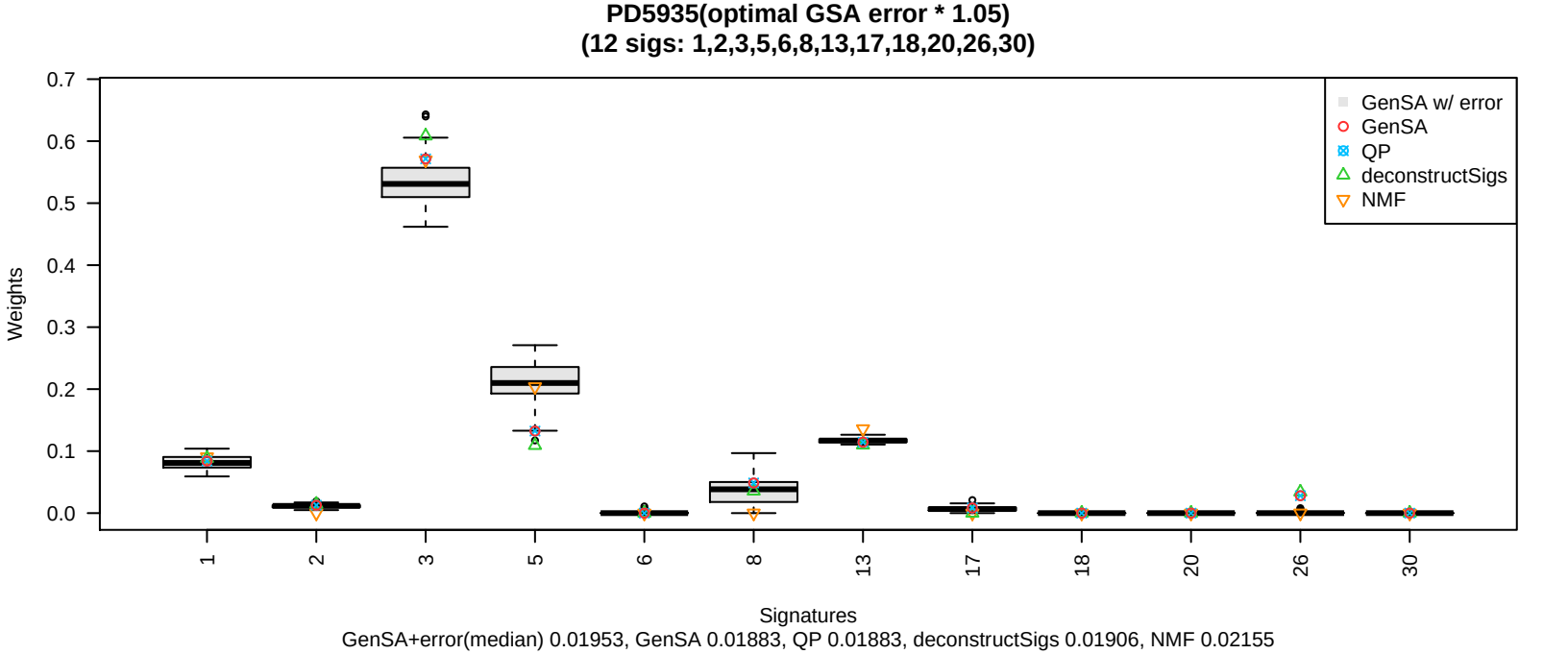

PD5930(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02487, GenSA 0.02377, QP 0.02377, deconstructSigs 0.02383, NMF 0.02433



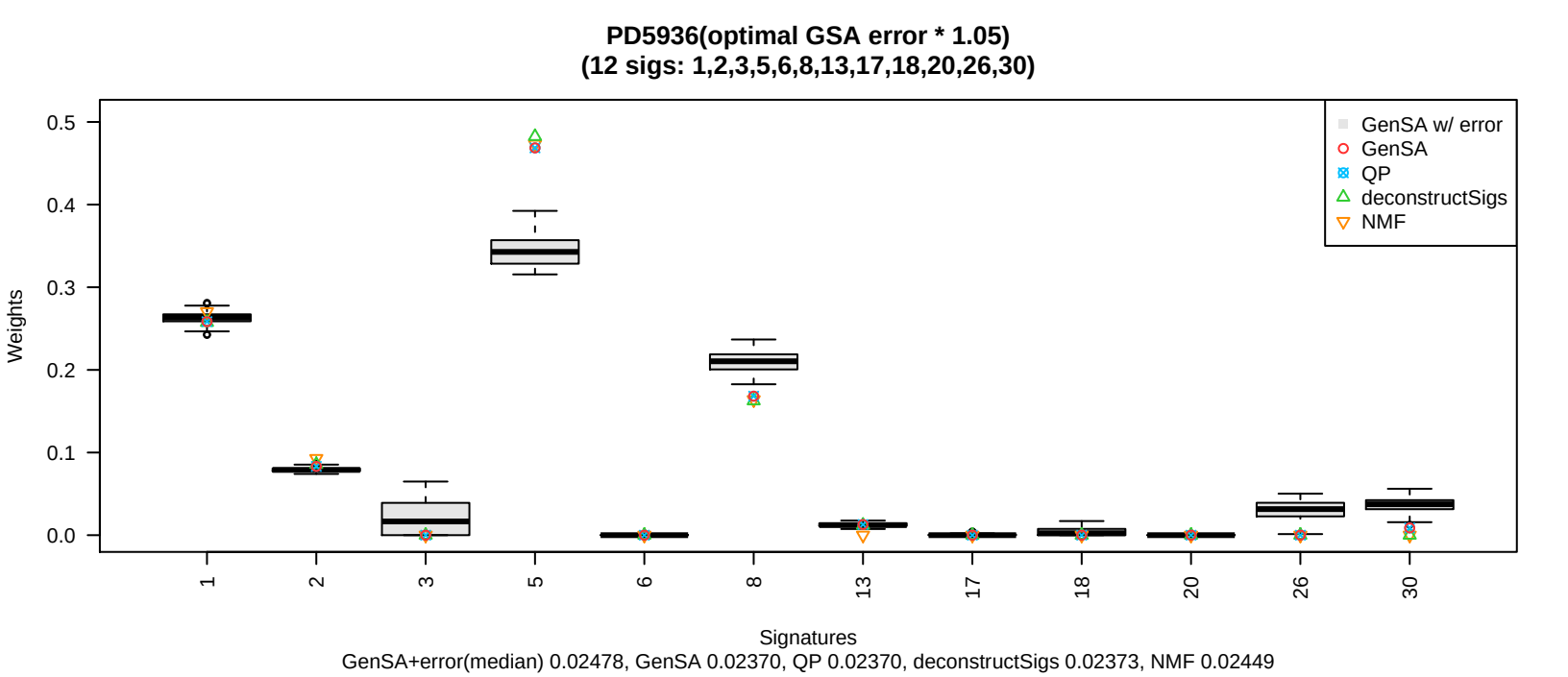
GenSA+error(median) 0.01919, GenSA 0.01848, QP 0.01848, deconstructSigs 0.01865, NMF 0.02178

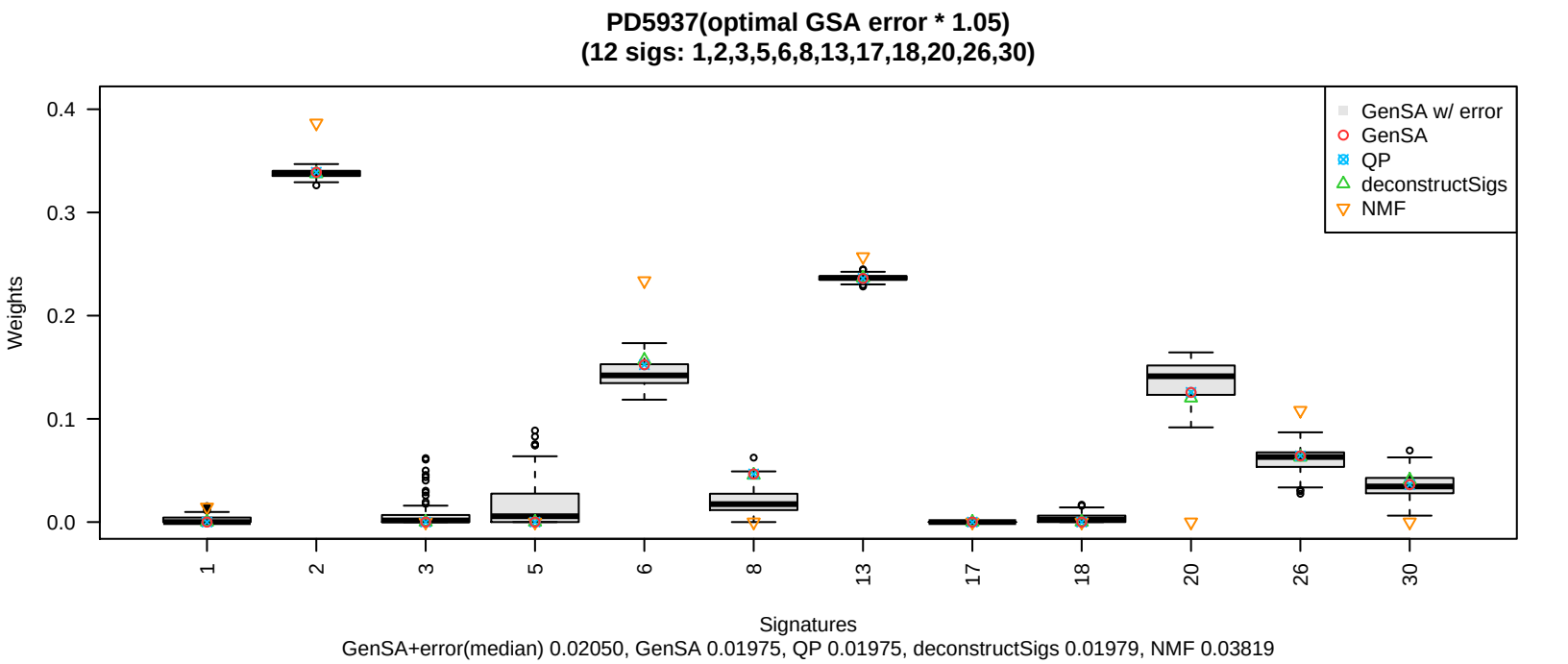


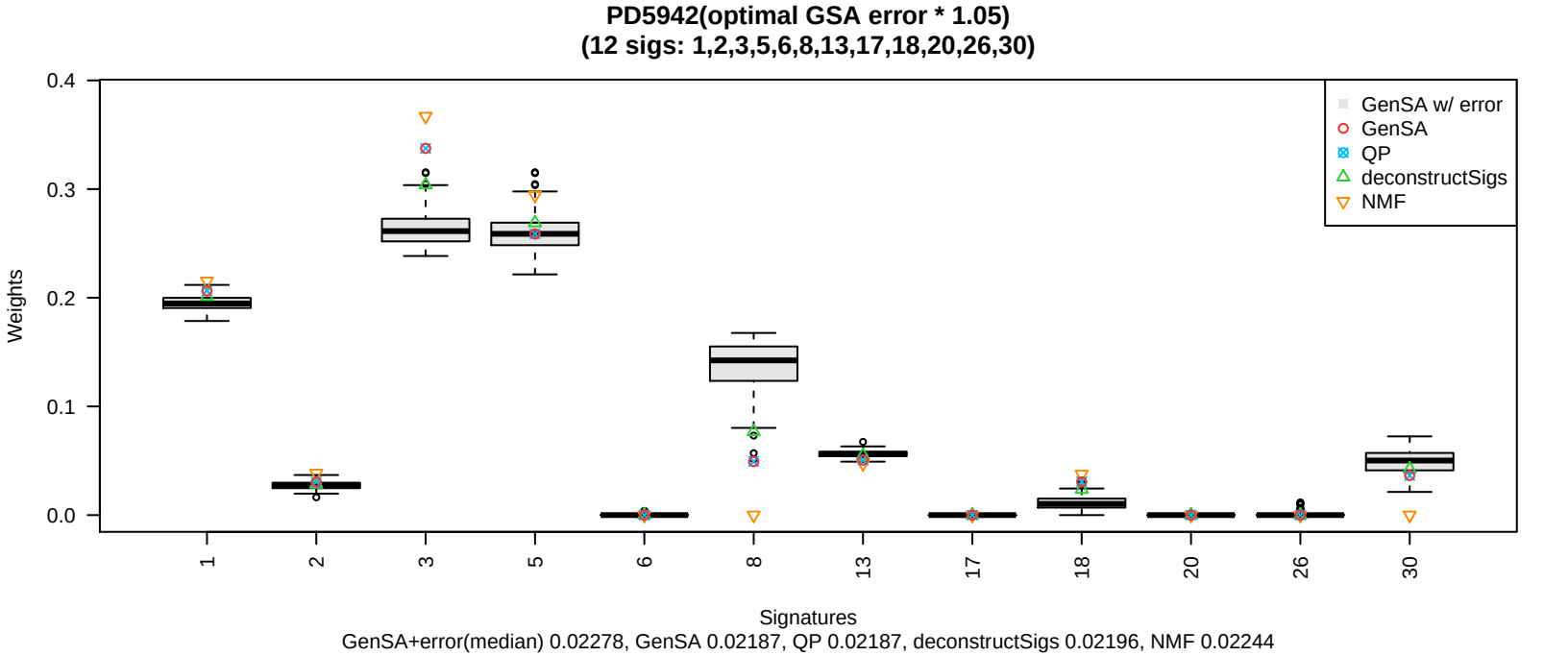
GenSA+error(median) 0.01592, GenSA 0.01527, QP 0.01527, deconstructSigs 0.01549, NMF 0.01658

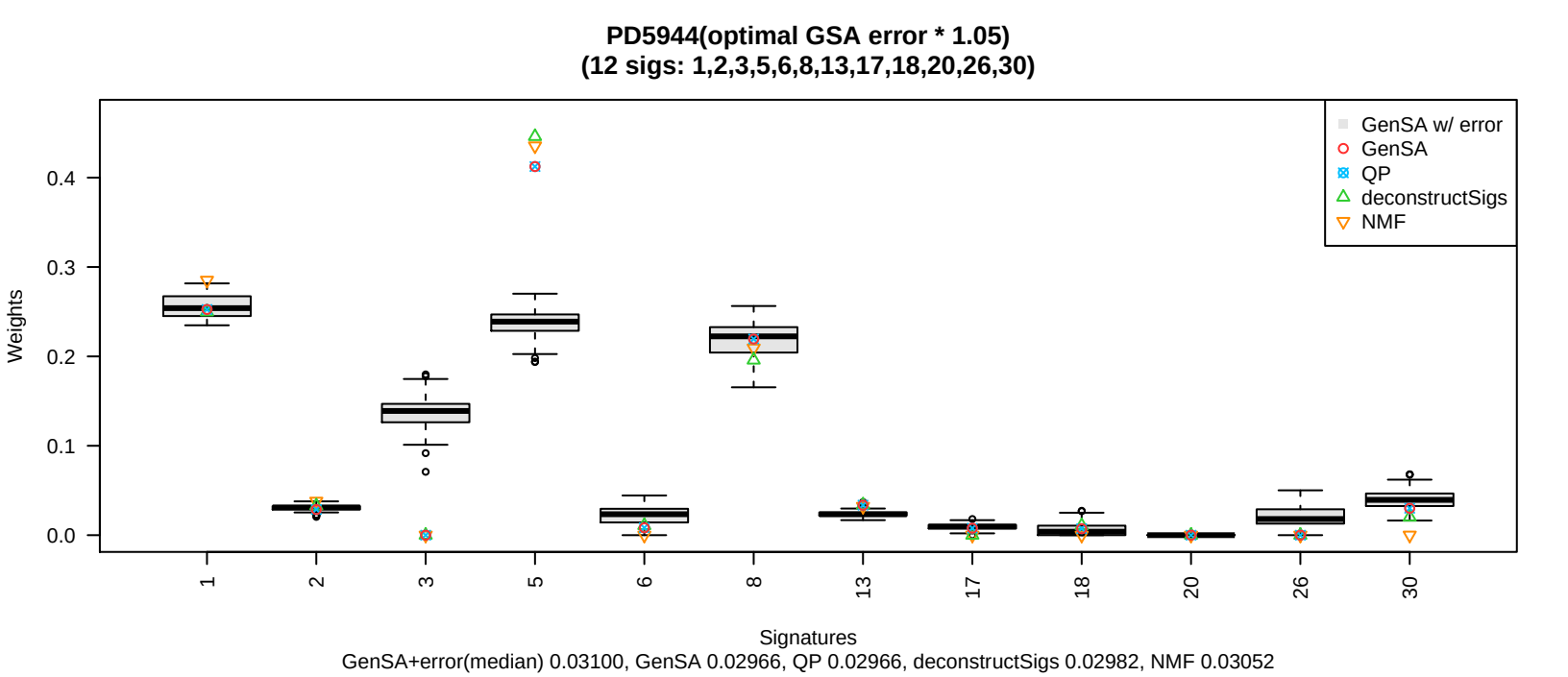


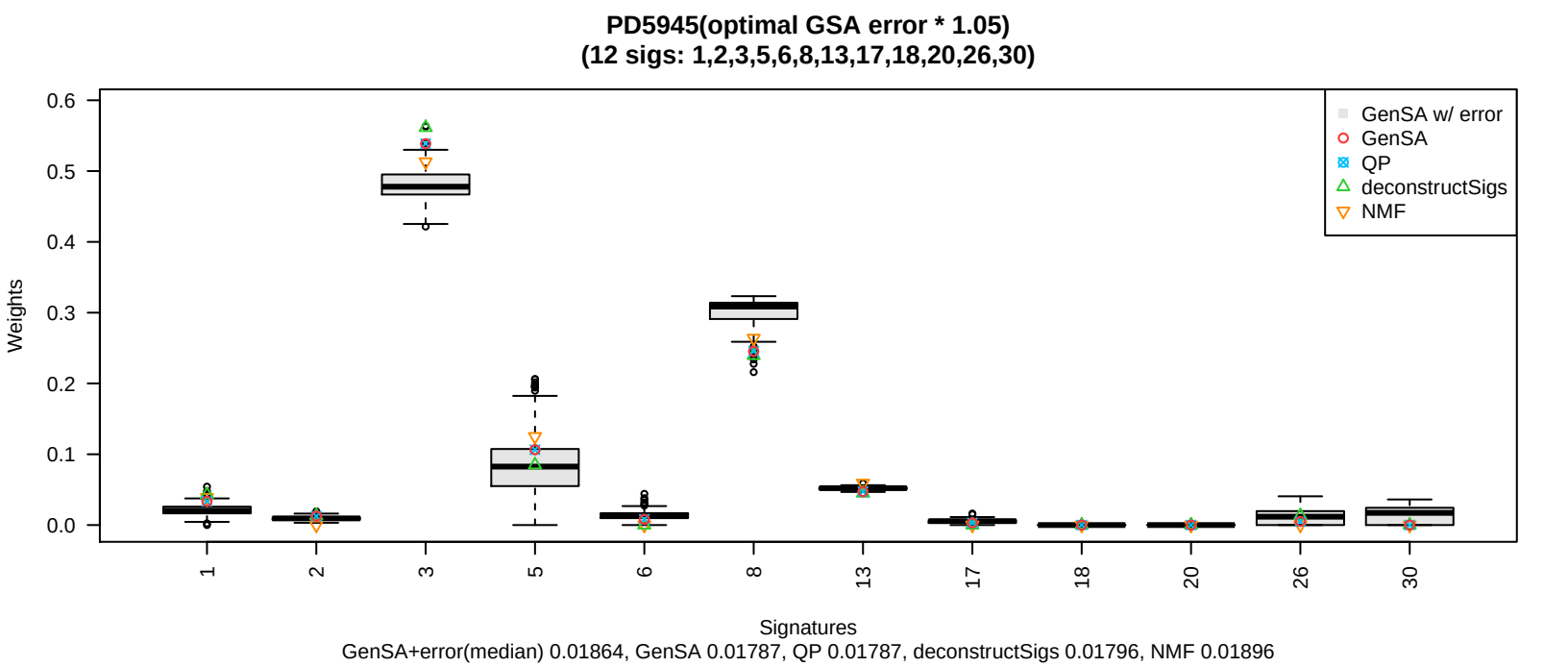
GenSA+error(median) 0.01953, GenSA 0.01883, QP 0.01883, deconstructSigs 0.01906, NMF 0.02155

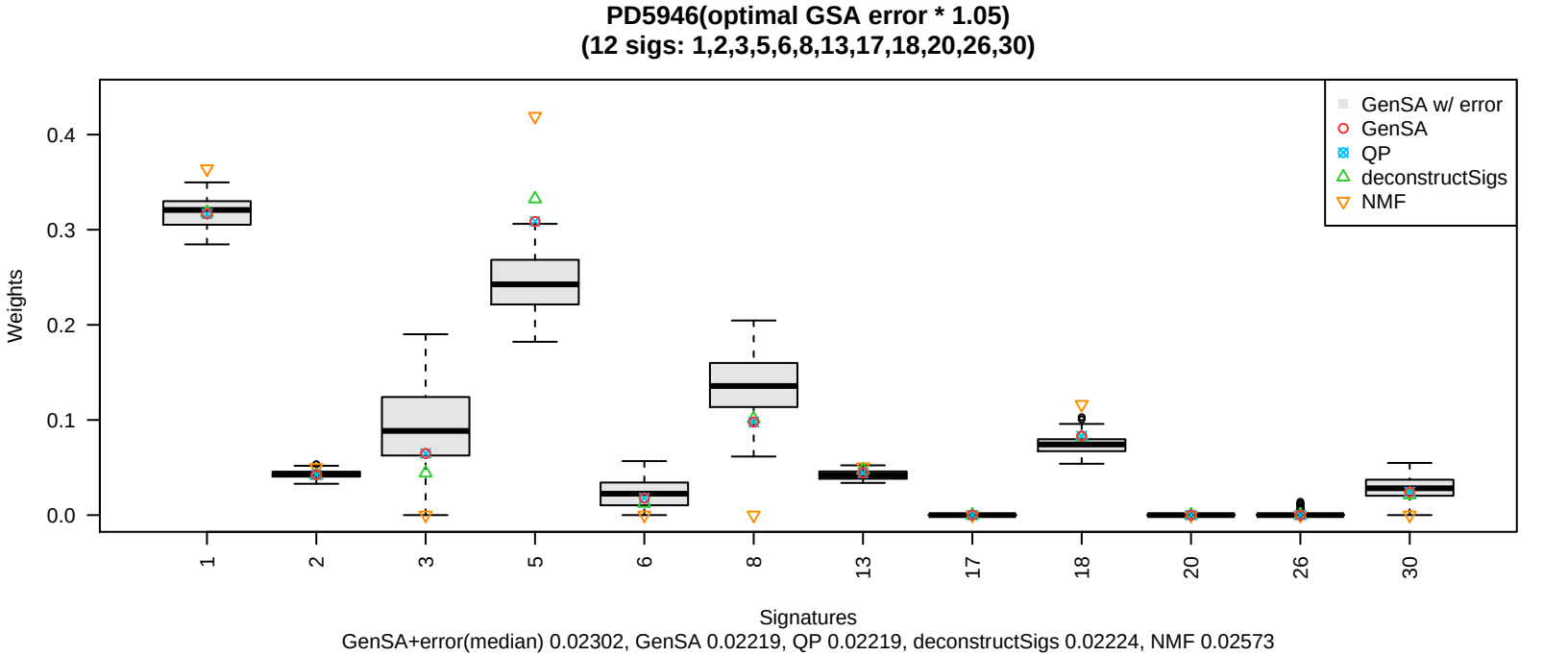

PD5936(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02478, GenSA 0.02370, QP 0.02370, deconstructSigs 0.02373, NMF 0.02449


PD5937(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02050, GenSA 0.01975, QP 0.01975, deconstructSigs 0.01979, NMF 0.03819

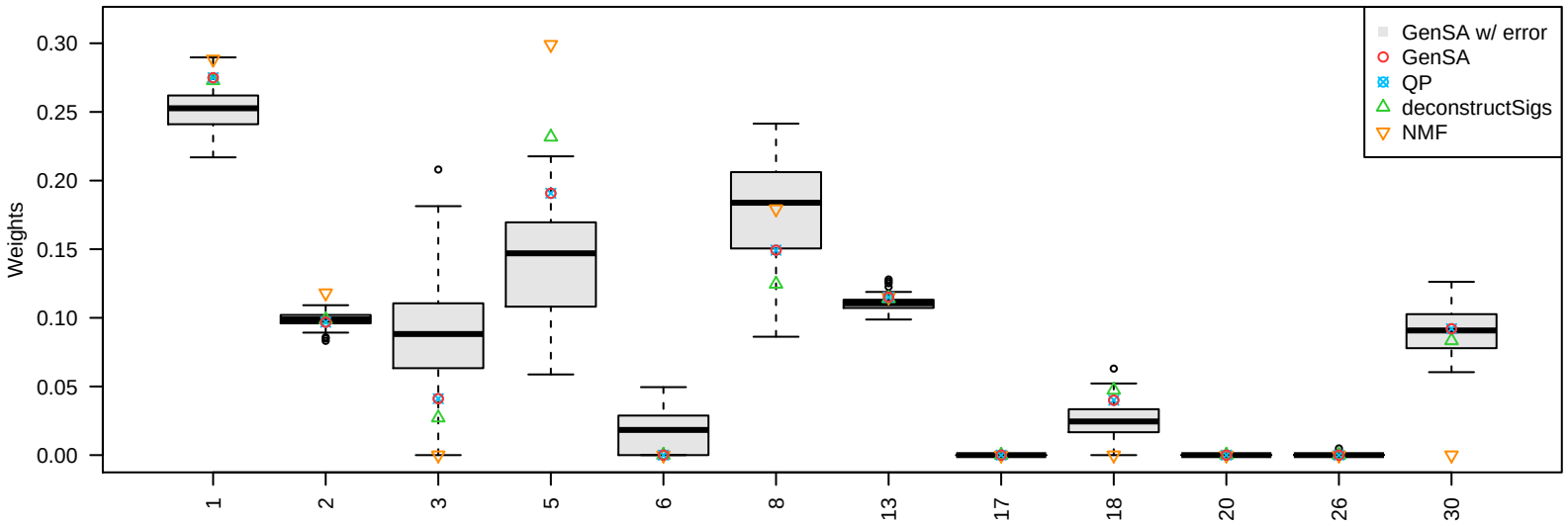

PD5942(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02278, GenSA 0.02187, QP 0.02187, deconstructSigs 0.02196, NMF 0.02244


PD5944(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03100, GenSA 0.02966, QP 0.02966, deconstructSigs 0.02982, NMF 0.03052


PD5945(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01864, GenSA 0.01787, QP 0.01787, deconstructSigs 0.01796, NMF 0.01896

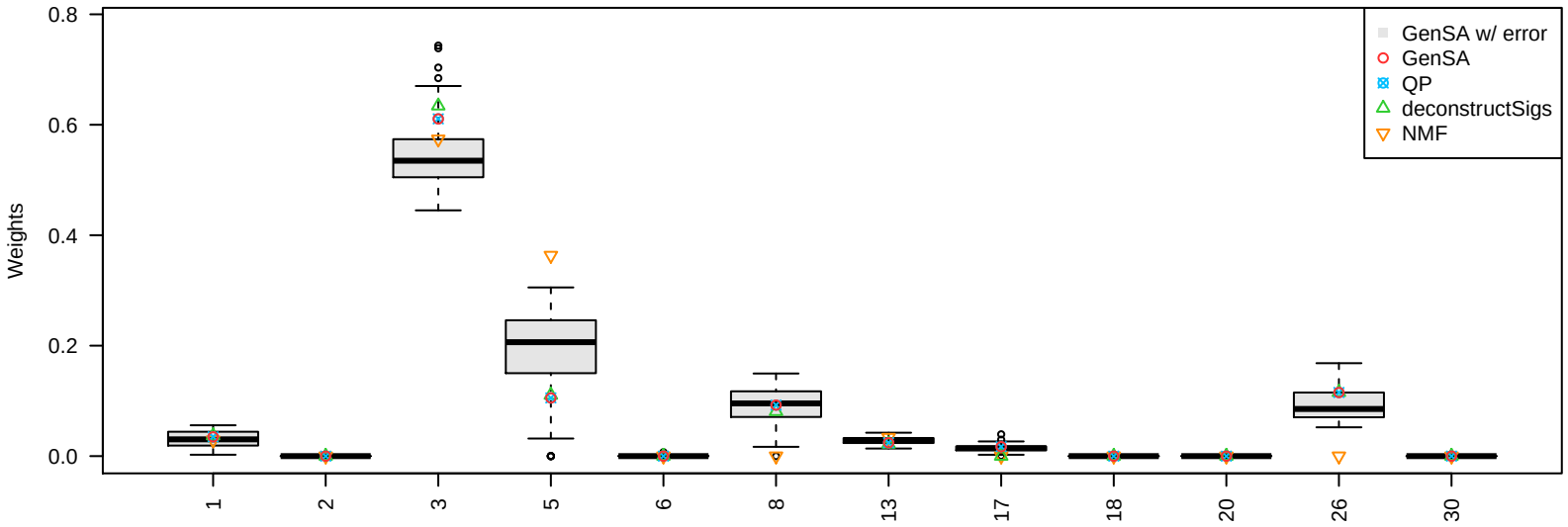

PD5946(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02302, GenSA 0.02219, QP 0.02219, deconstructSigs 0.02224, NMF 0.02573

PD5947(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)



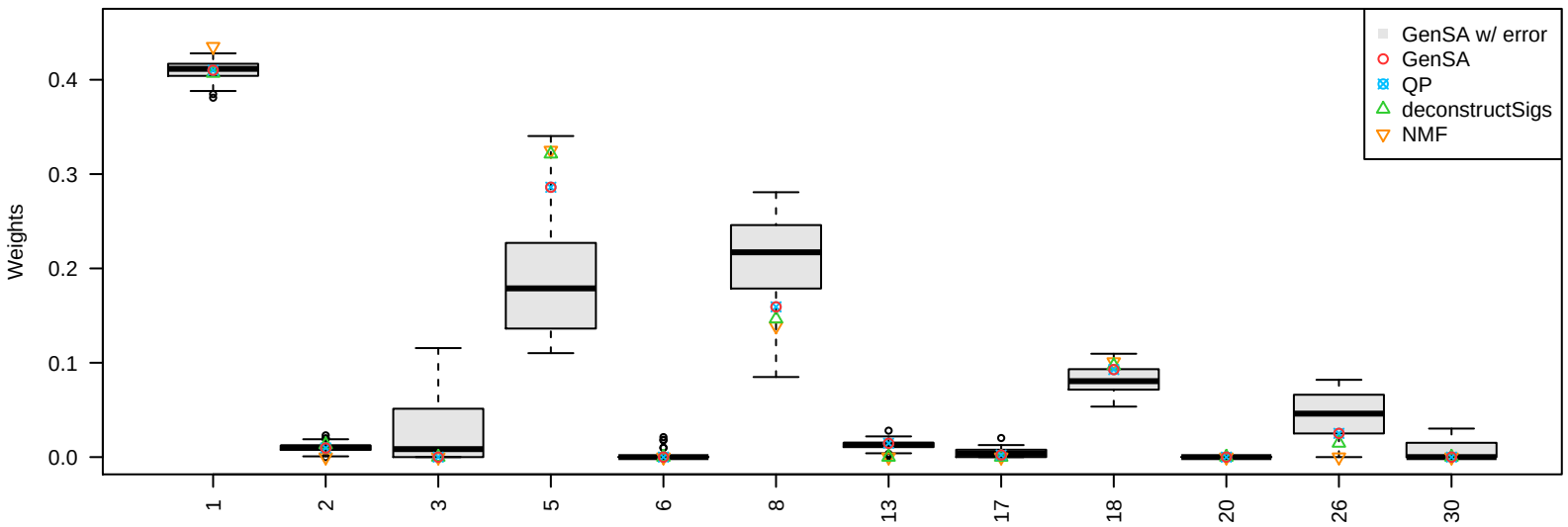
GenSA+error(median) 0.03062, GenSA 0.02941, QP 0.02941, deconstructSigs 0.02953, NMF 0.03274

PD5948(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)

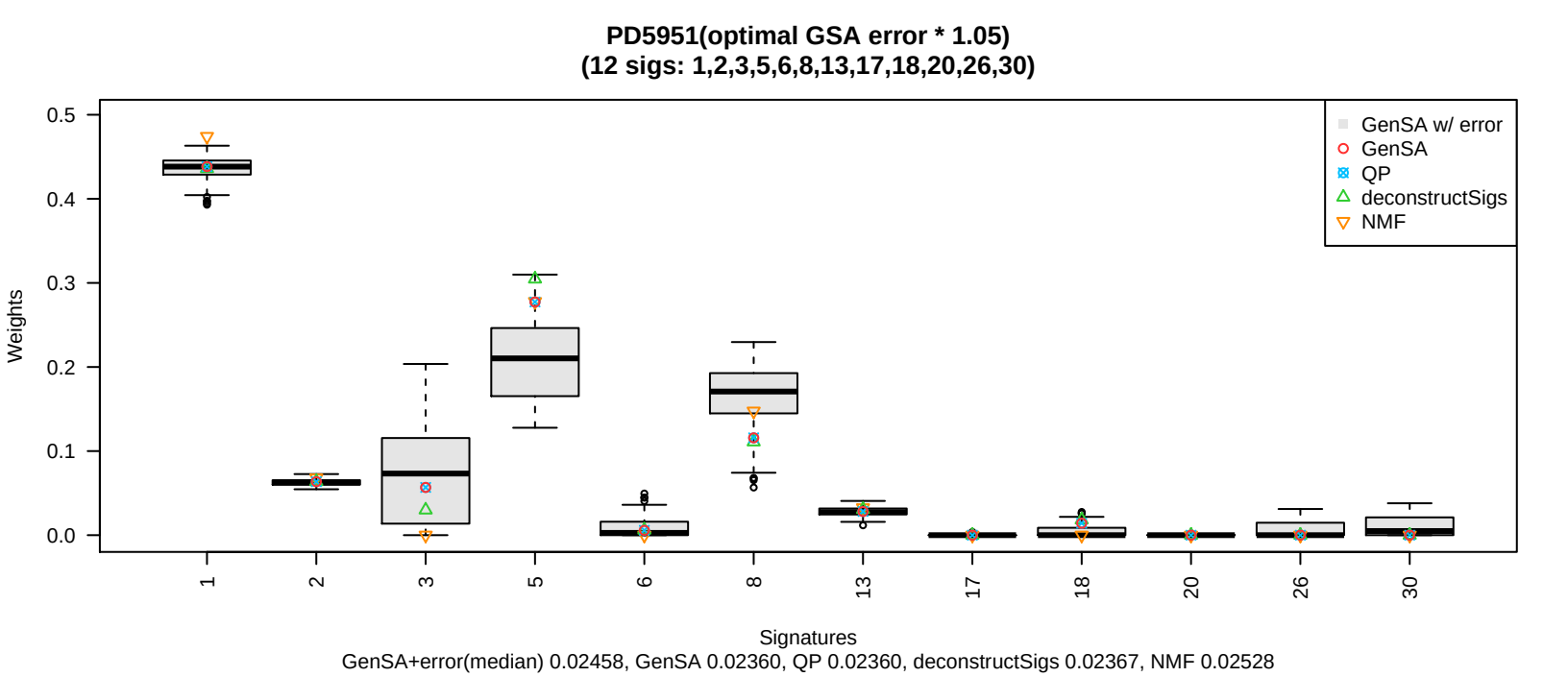


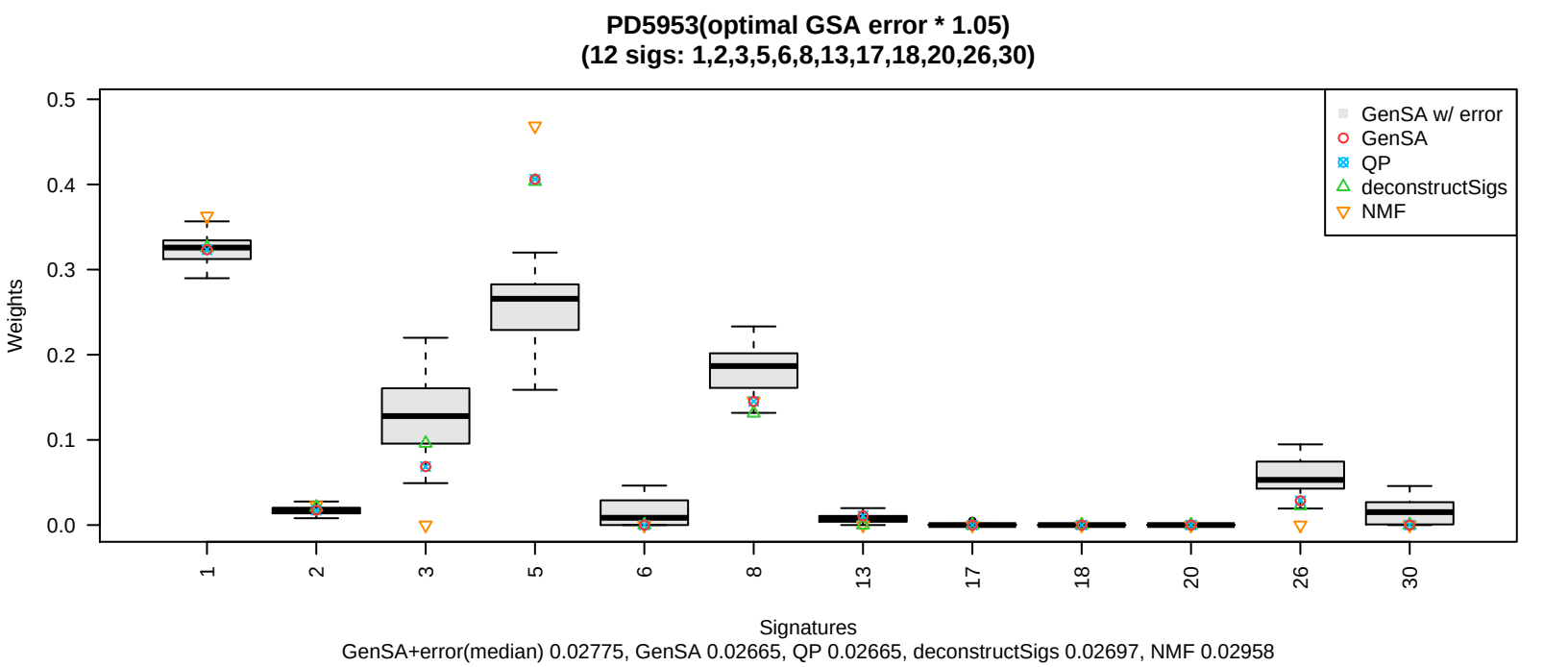
GenSA+error(median) 0.02689, GenSA 0.02588, QP 0.02588, deconstructSigs 0.02637, NMF 0.02998

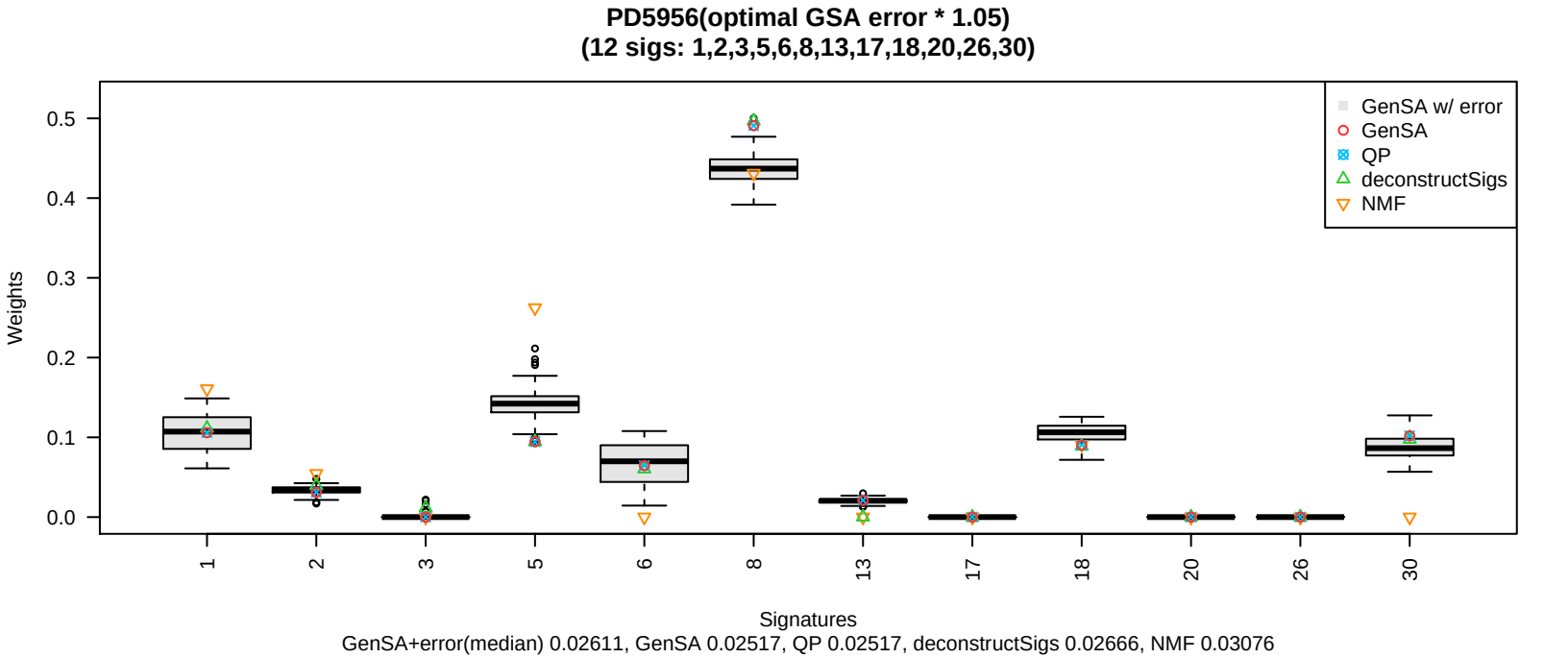
PD5950(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)

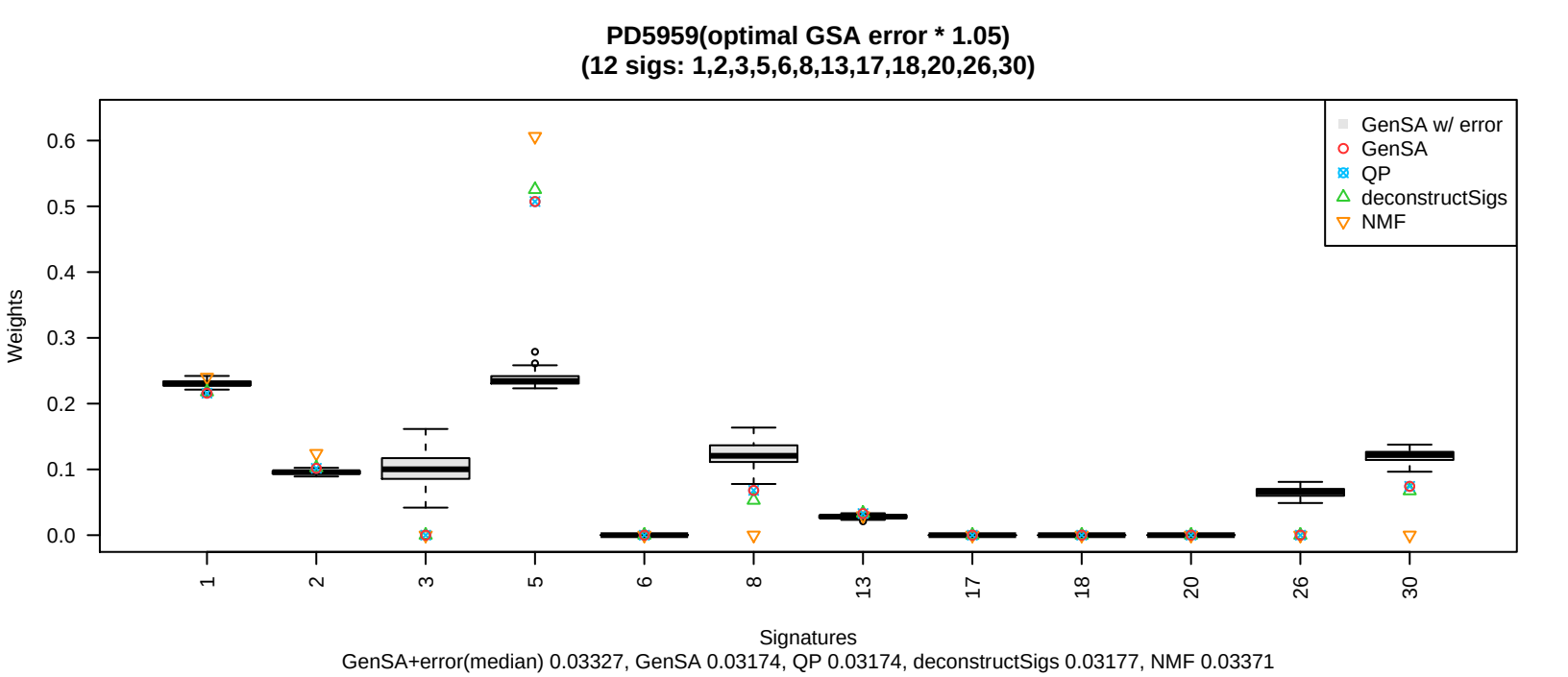


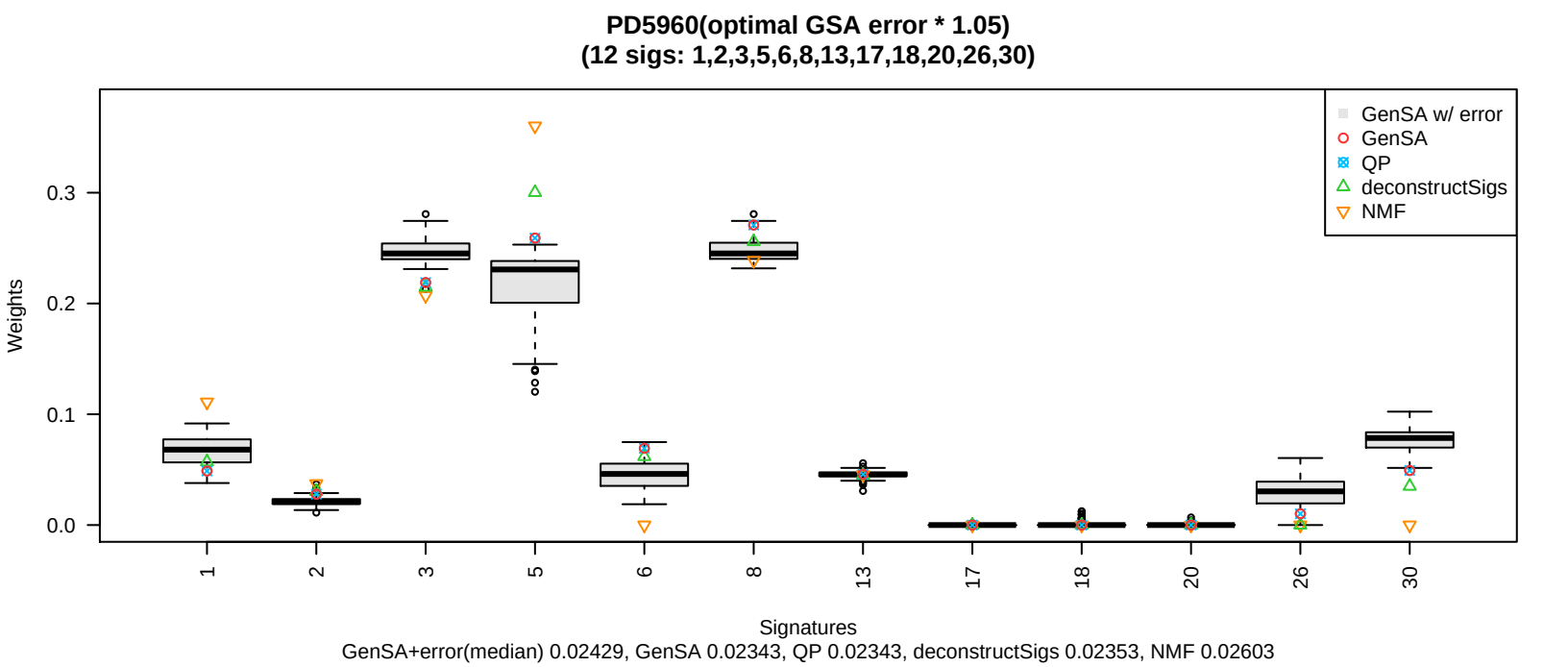
GenSA+error(median) 0.02929, GenSA 0.02803, QP 0.02803, deconstructSigs 0.02876, NMF 0.03022

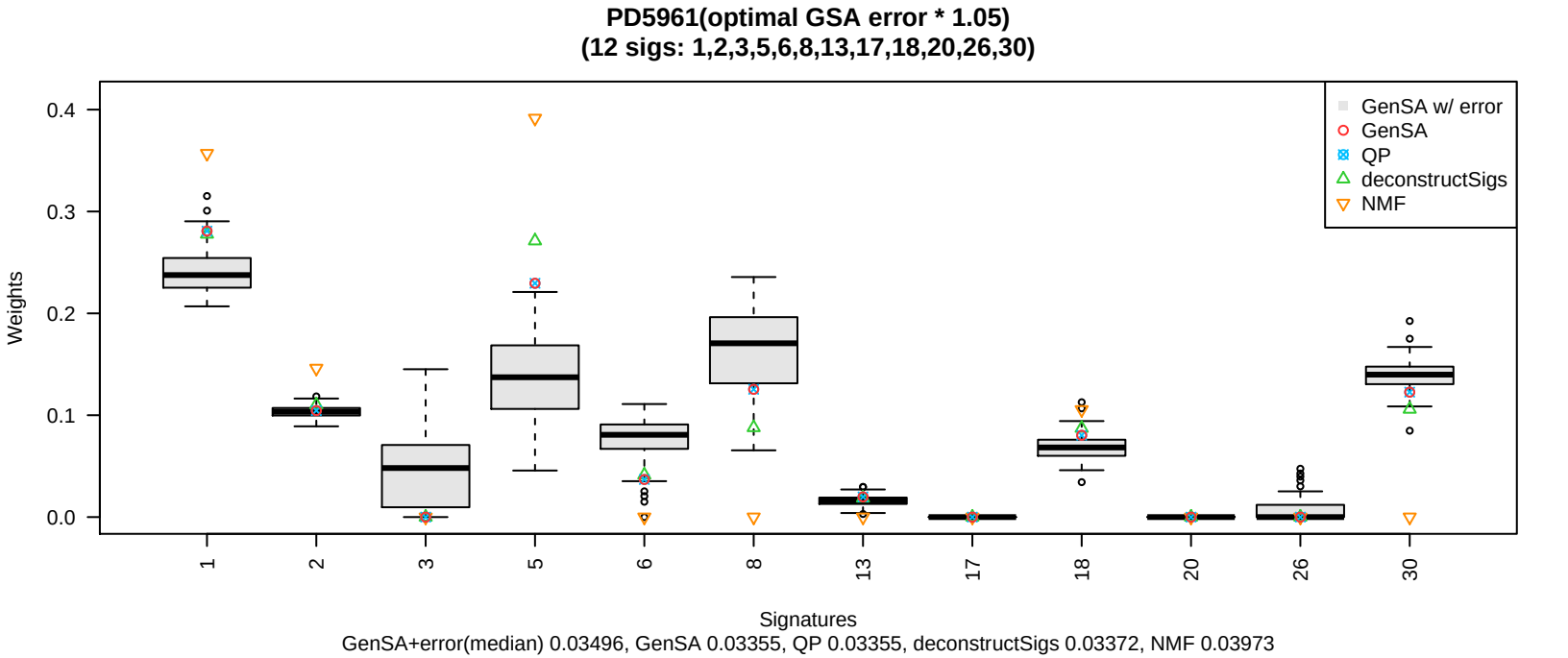

PD5951(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02458, GenSA 0.02360, QP 0.02360, deconstructSigs 0.02367, NMF 0.02528

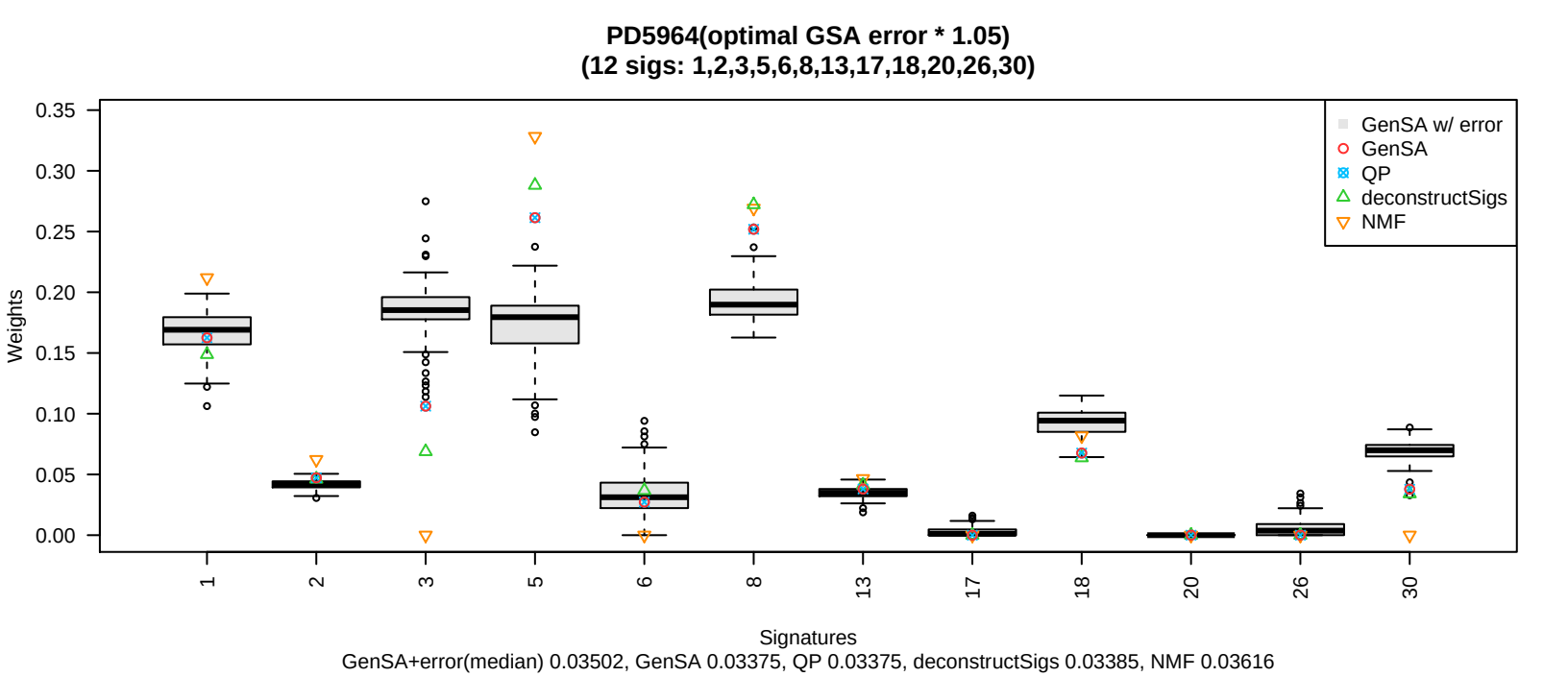

PD5953(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02775, GenSA 0.02665, QP 0.02665, deconstructSigs 0.02697, NMF 0.02958

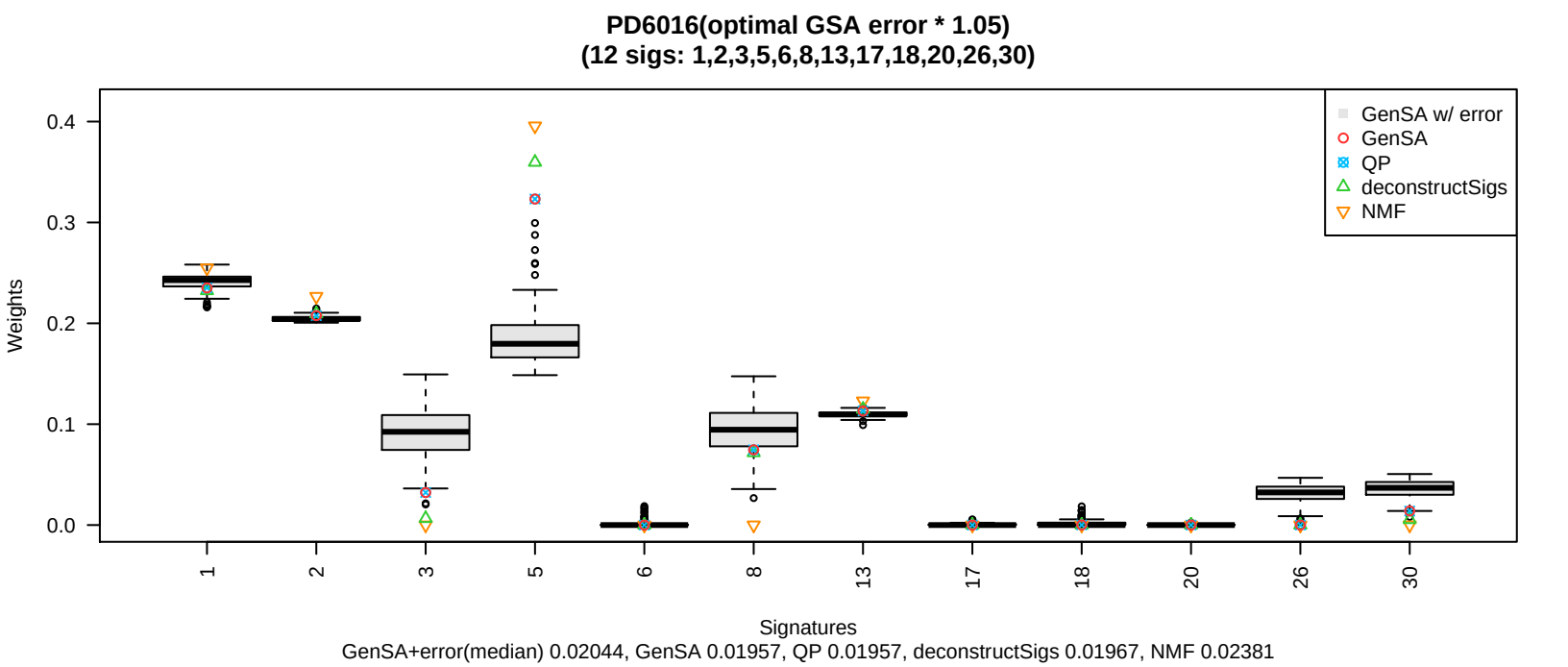

PD5956(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02611, GenSA 0.02517, QP 0.02517, deconstructSigs 0.02666, NMF 0.03076

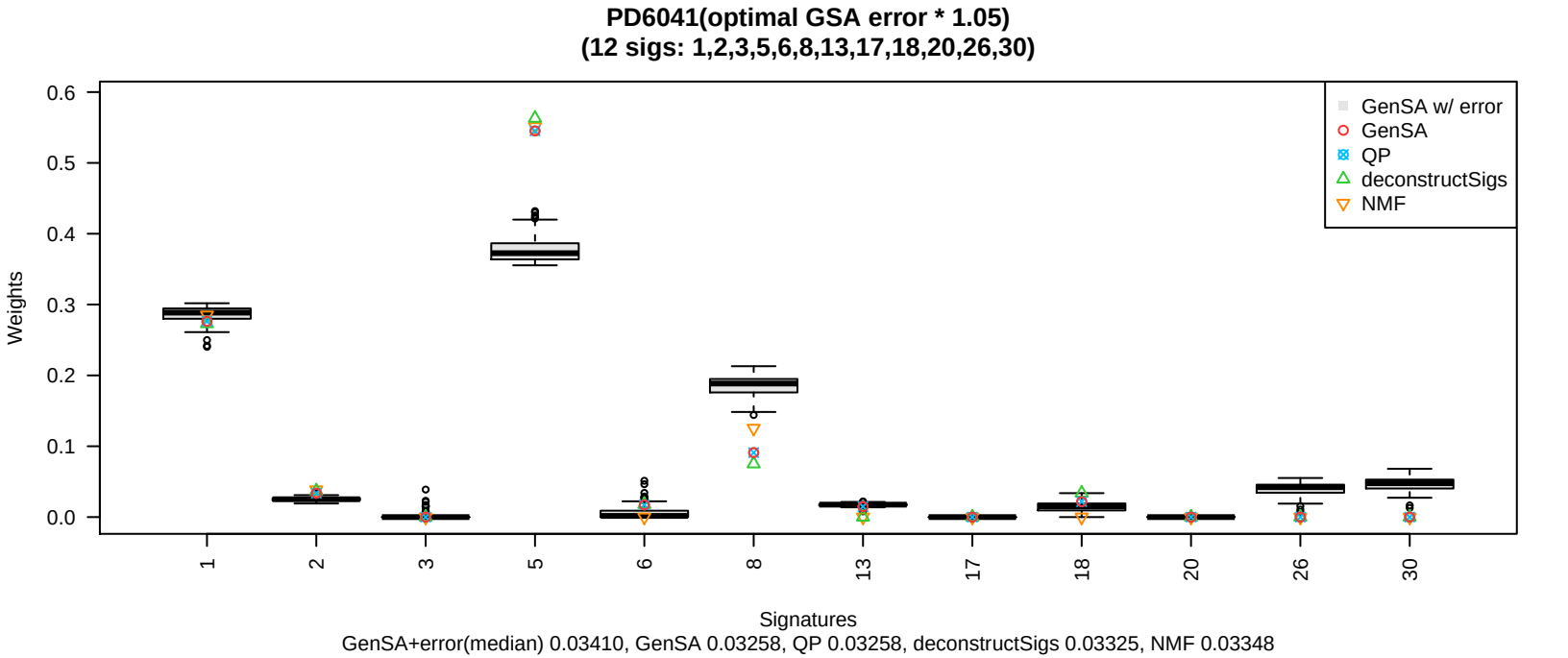

PD5959(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03327, GenSA 0.03174, QP 0.03174, deconstructSigs 0.03177, NMF 0.03371

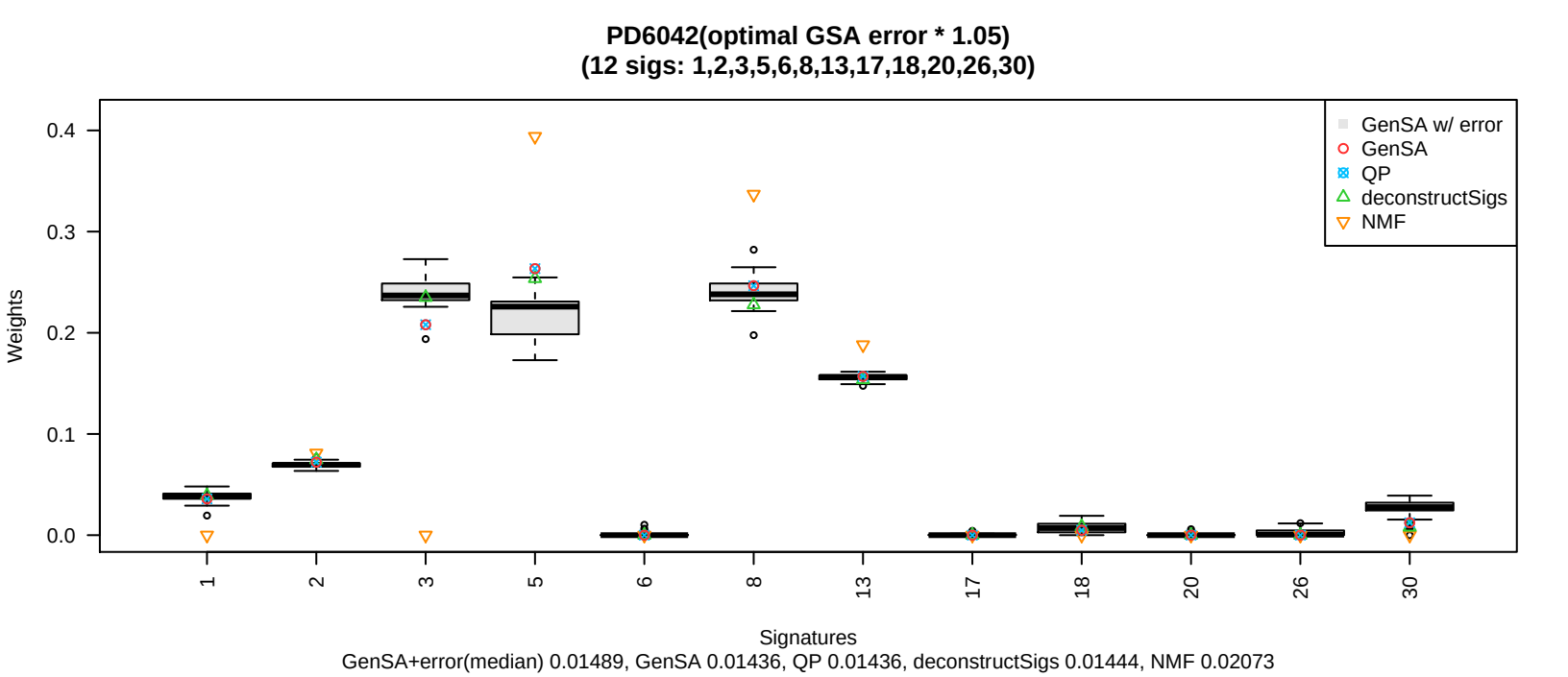

PD5960(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02429, GenSA 0.02343, QP 0.02343, deconstructSigs 0.02353, NMF 0.02603


PD5961(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03496, GenSA 0.03355, QP 0.03355, deconstructSigs 0.03372, NMF 0.03973

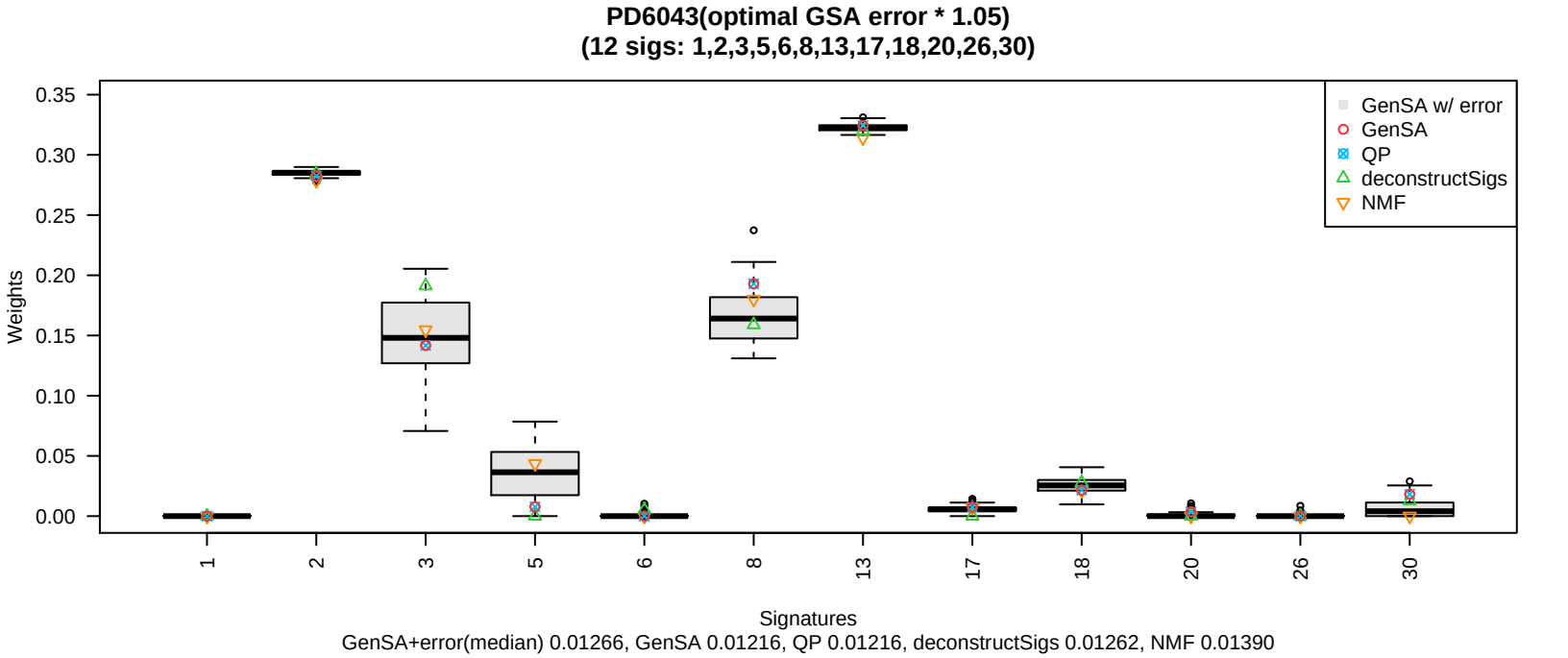

PD5964(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03502, GenSA 0.03375, QP 0.03375, deconstructSigs 0.03385, NMF 0.03616


PD6016(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.4
0.3
0.2
0.1
0.0
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02044, GenSA 0.01957, QP 0.01957, deconstructSigs 0.01967, NMF 0.02381

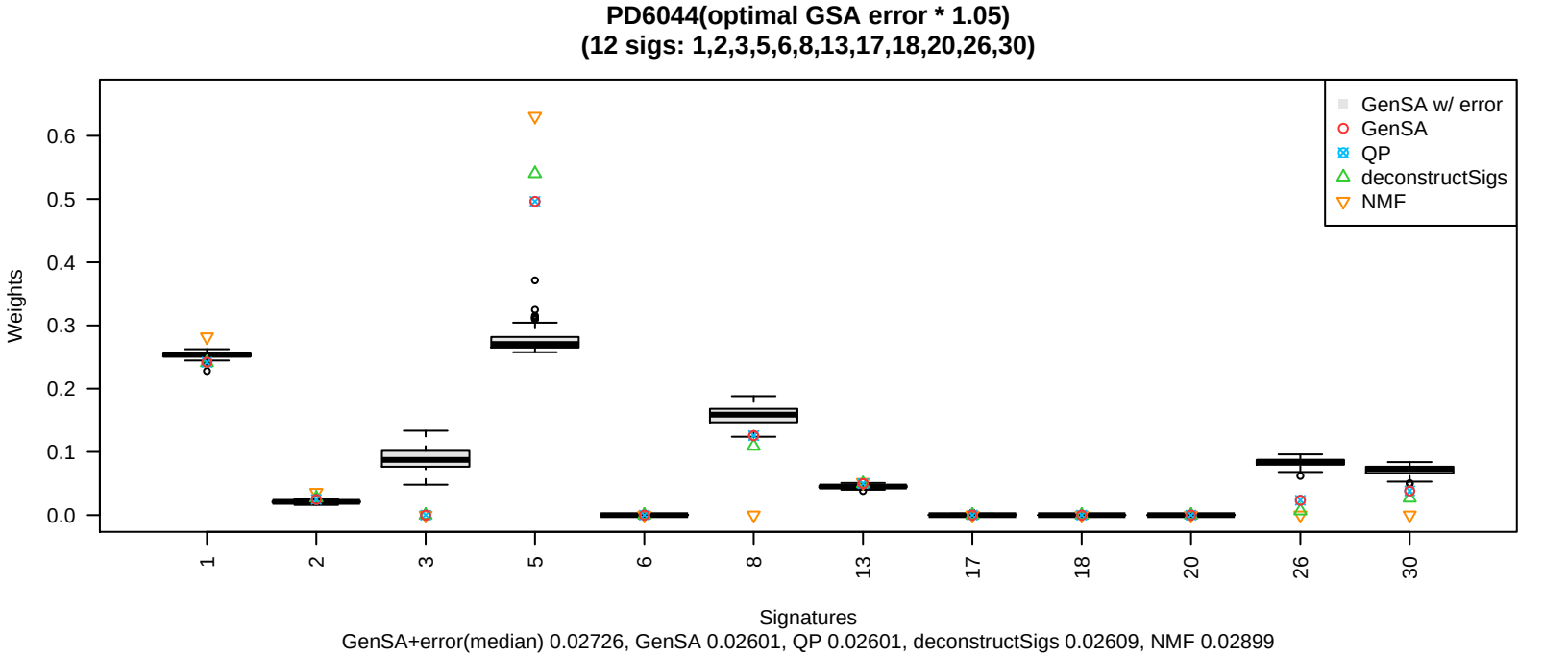

PD6041(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.6
0.5
0.4
0.3
0.2
0.1
0.0
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03410, GenSA 0.03258, QP 0.03258, deconstructSigs 0.03325, NMF 0.03348



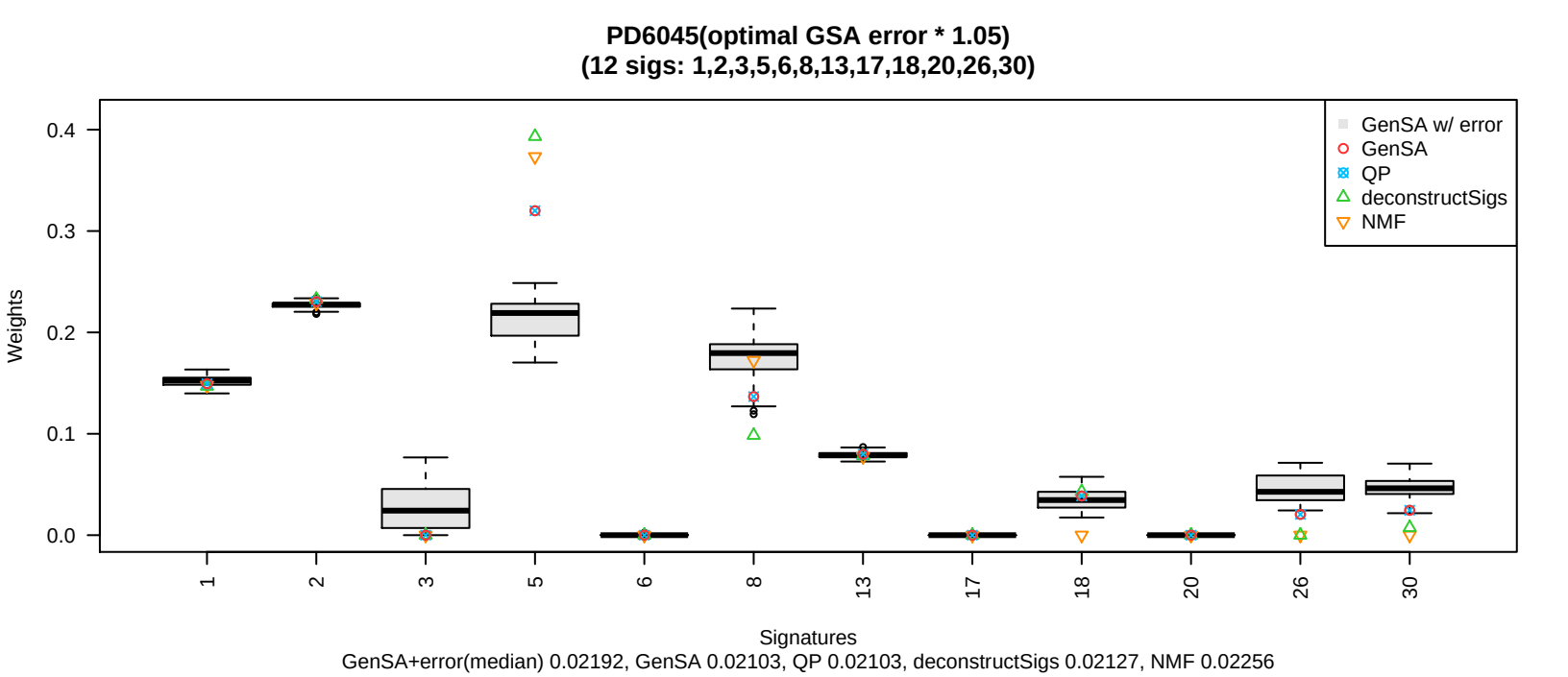
GenSA+error(median) 0.01489, GenSA 0.01436, QP 0.01436, deconstructSigs 0.01444, NMF 0.02073

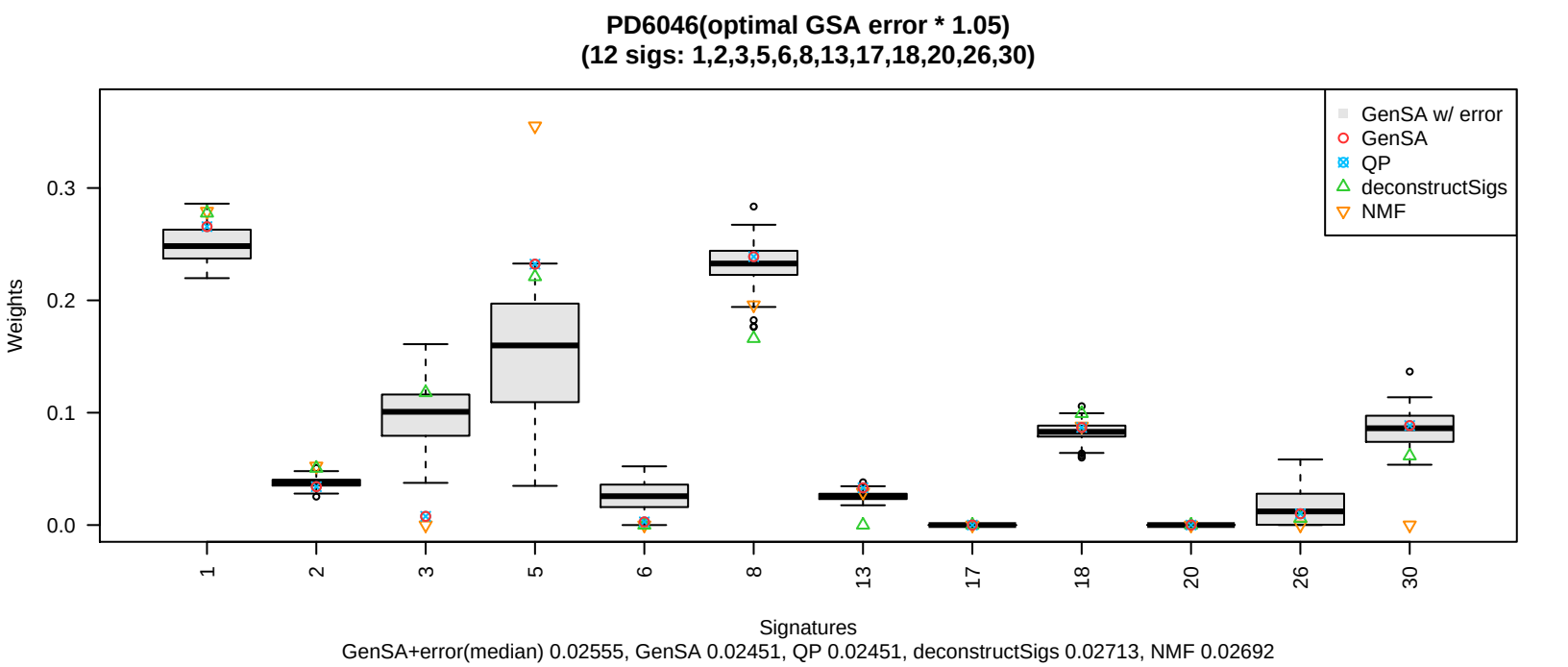


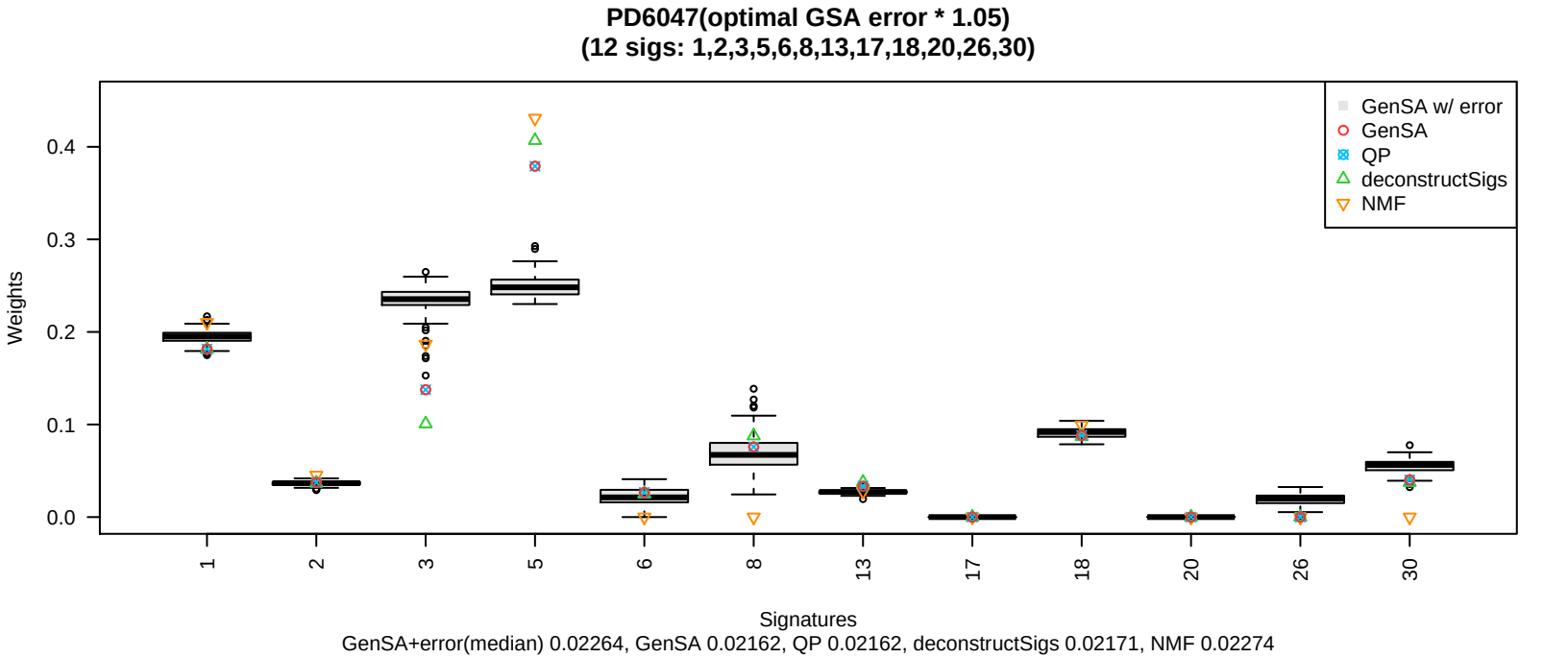
GenSA+error(median) 0.01266, GenSA 0.01216, QP 0.01216, deconstructSigs 0.01262, NMF 0.01390

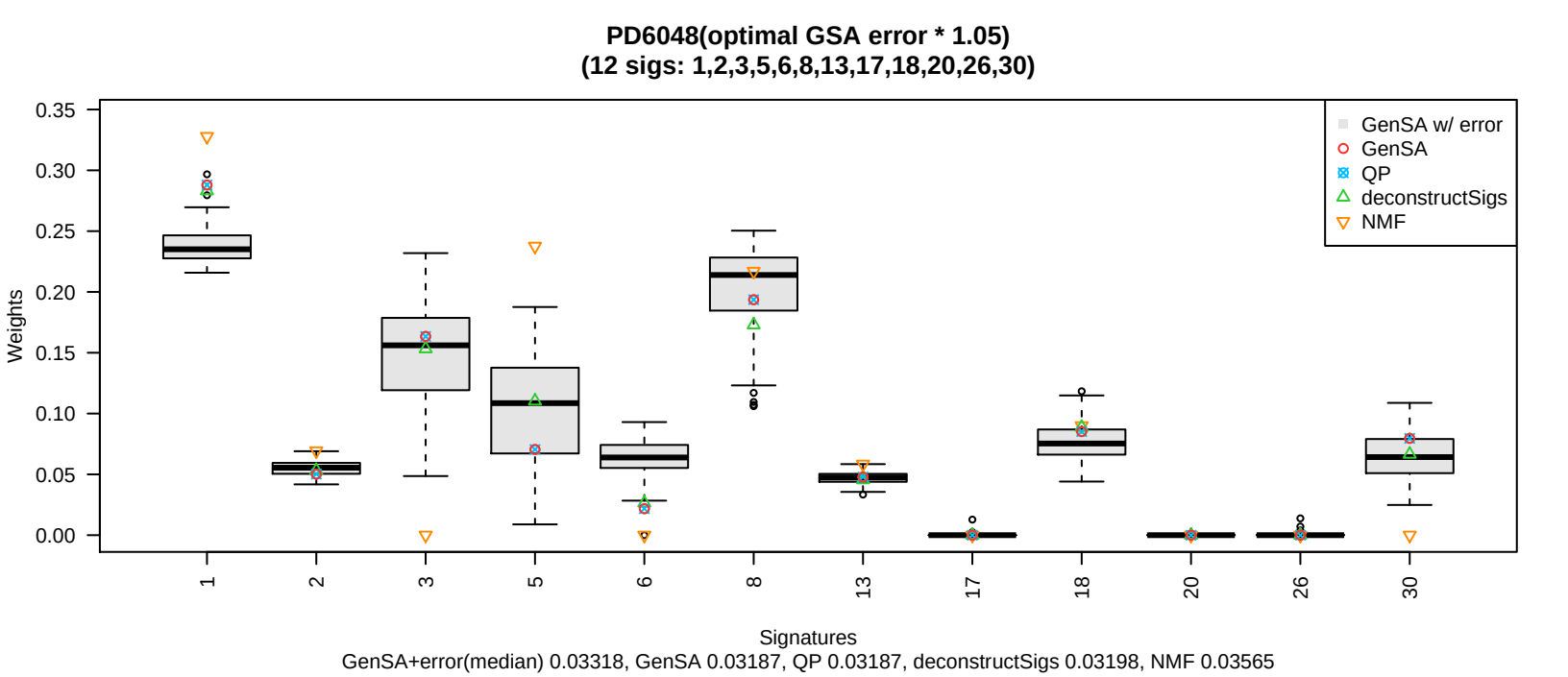


GenSA+error(median) 0.02726, GenSA 0.02601, QP 0.02601, deconstructSigs 0.02609, NMF 0.02899

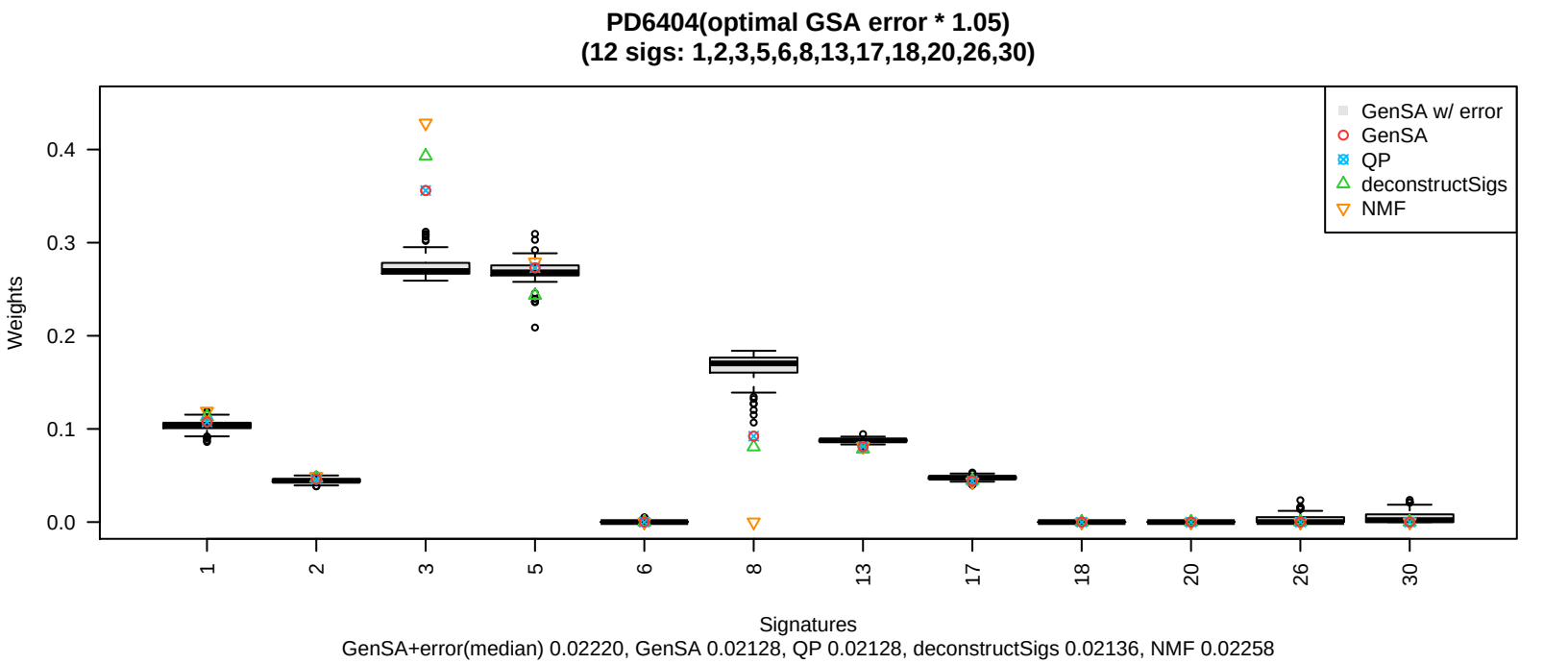

PD6045(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02192, GenSA 0.02103, QP 0.02103, deconstructSigs 0.02127, NMF 0.02256


PD6046(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02555, GenSA 0.02451, QP 0.02451, deconstructSigs 0.02713, NMF 0.02692

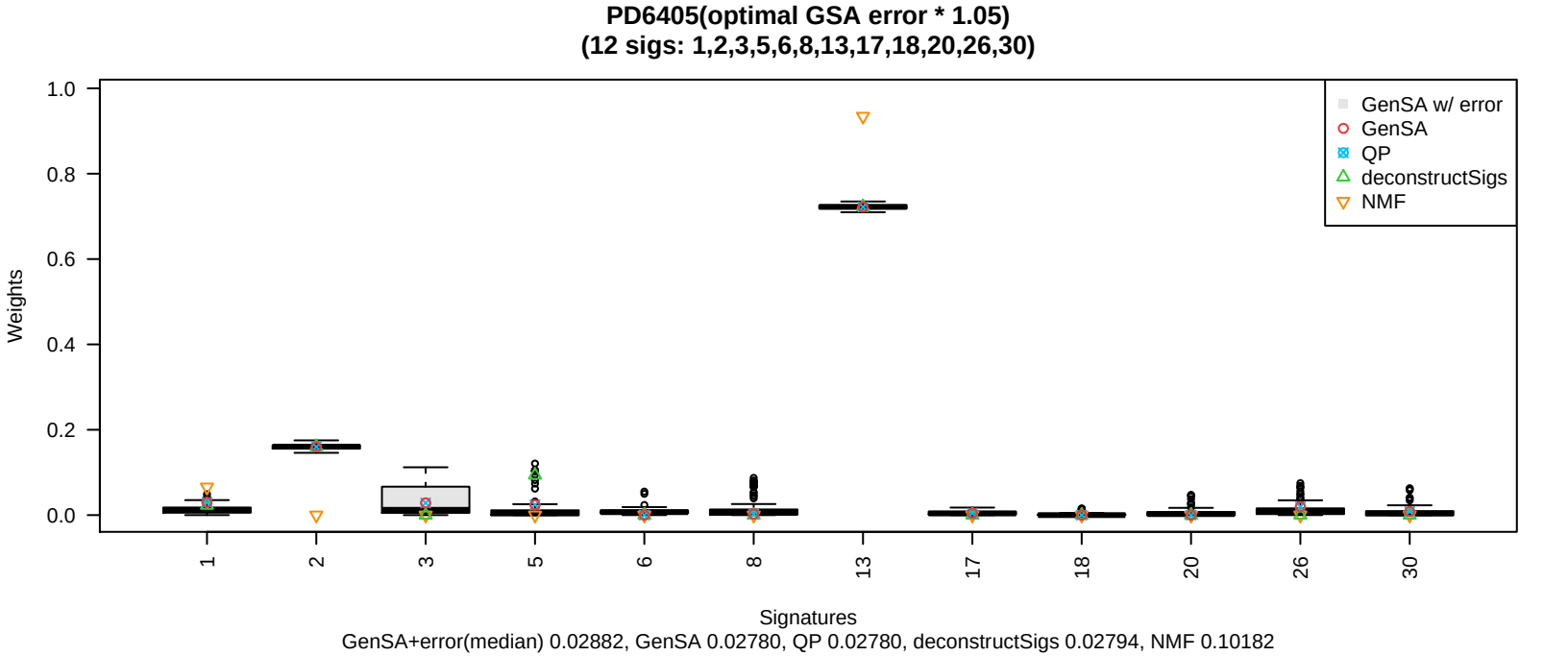

PD6047(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02264, GenSA 0.02162, QP 0.02162, deconstructSigs 0.02171, NMF 0.02274



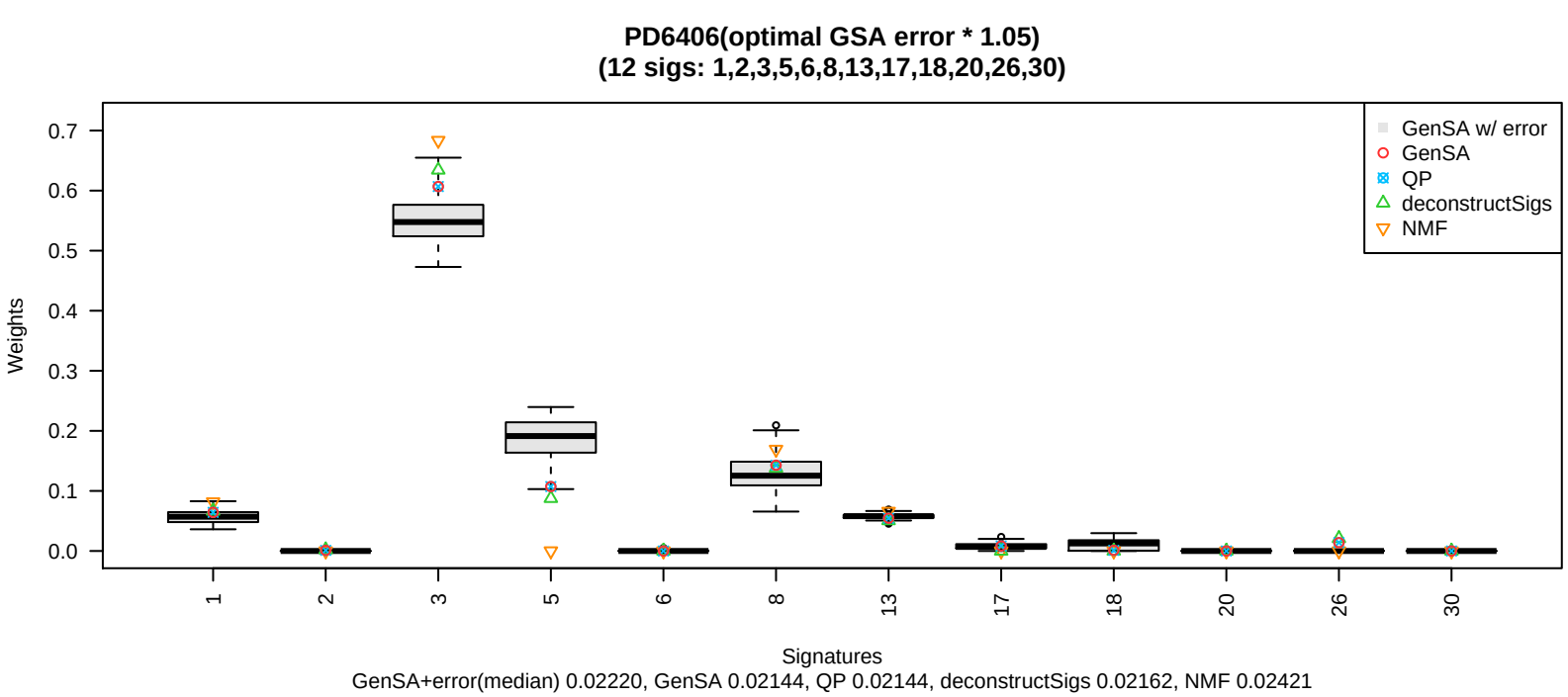
GenSA+error(median) 0.03318, GenSA 0.03187, QP 0.03187, deconstructSigs 0.03198, NMF 0.03565

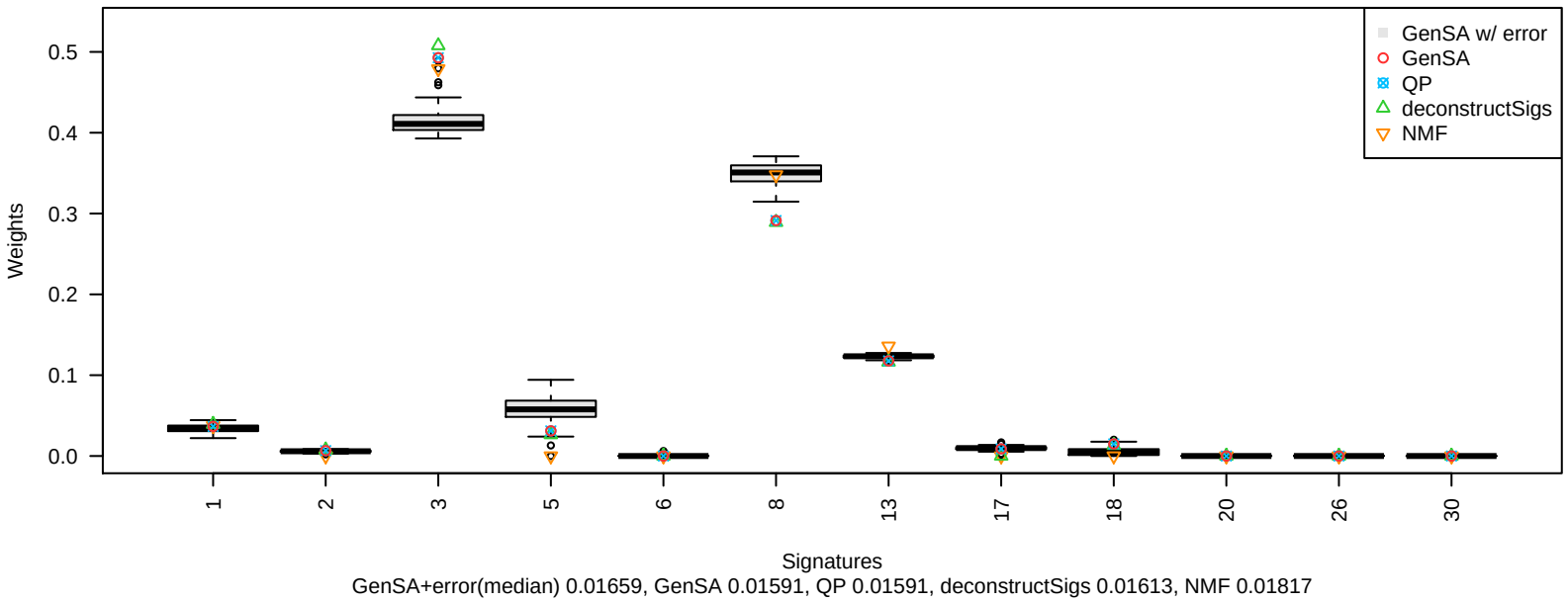


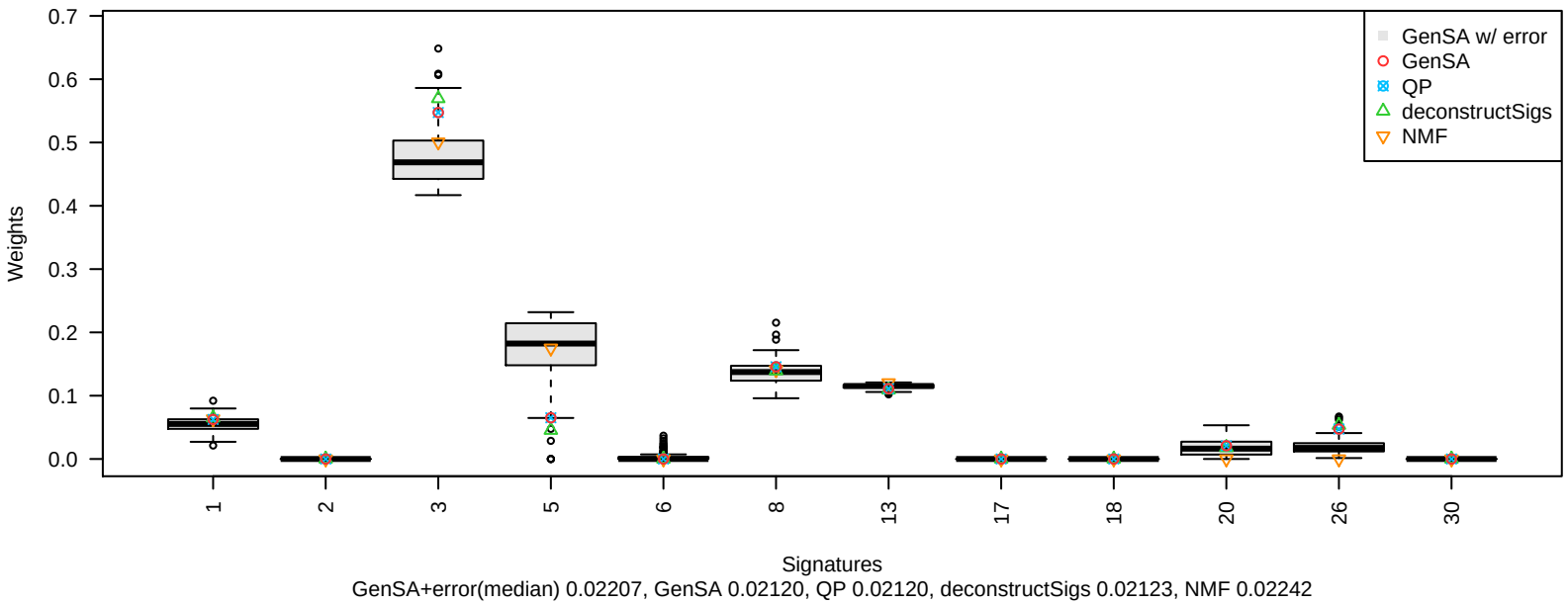
GenSA+error(median) 0.02220, GenSA 0.02128, QP 0.02128, deconstructSigs 0.02136, NMF 0.02258

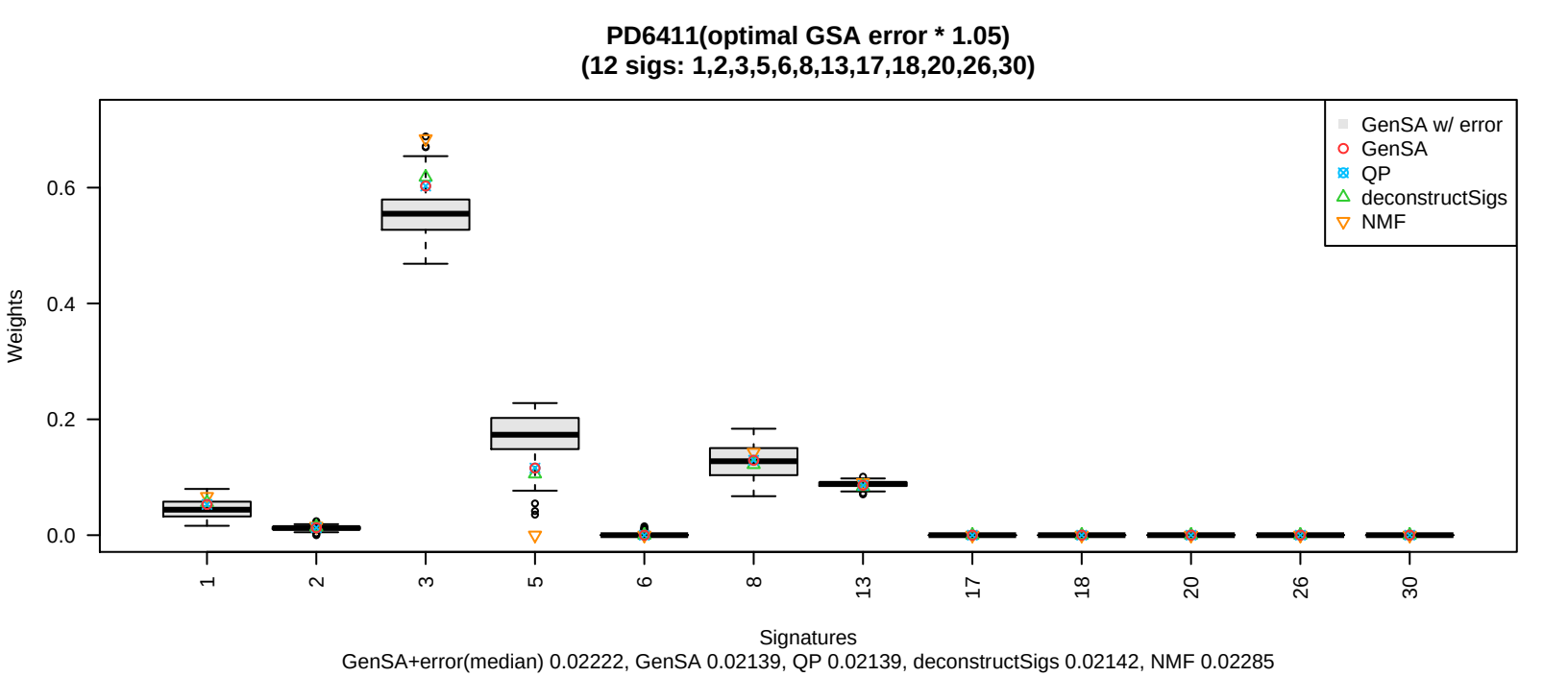


GenSA+error(median) 0.02882, GenSA 0.02780, QP 0.02780, deconstructSigs 0.02794, NMF 0.10182

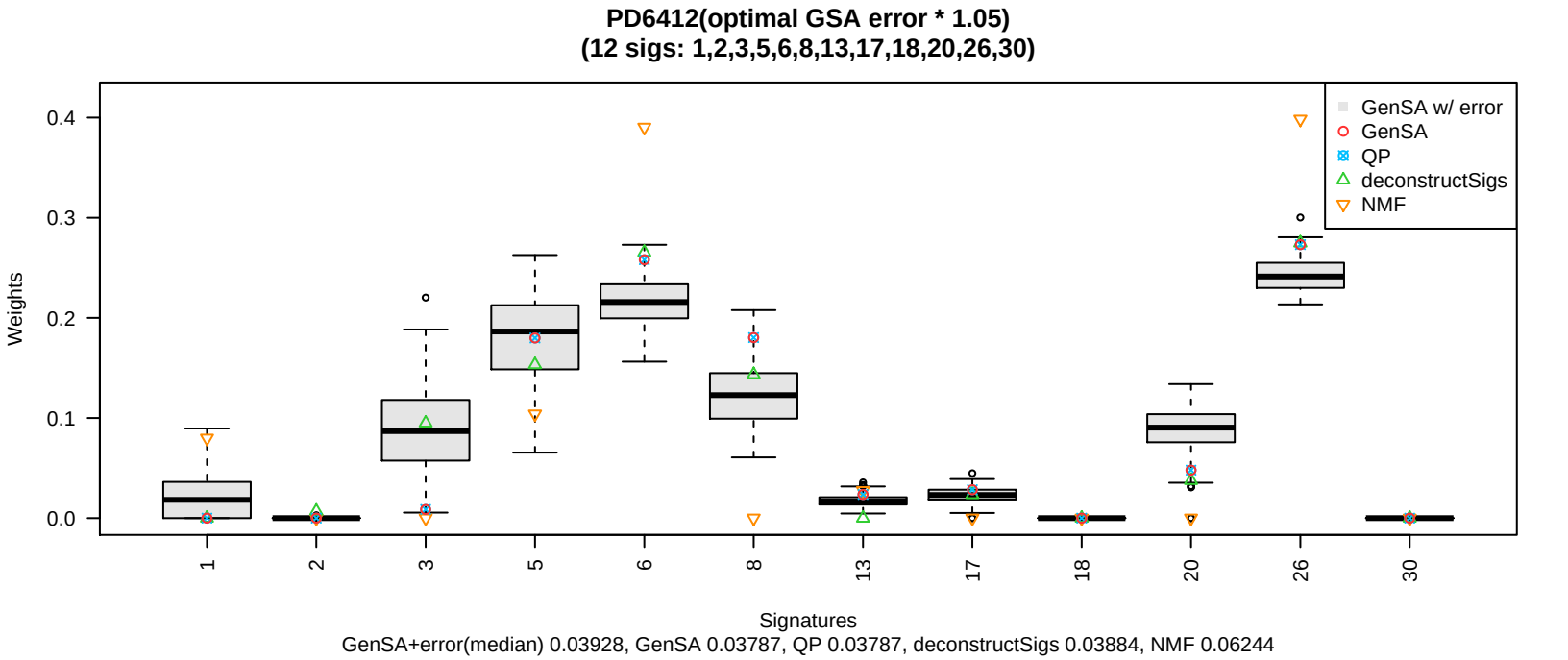

PD6406(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02220, GenSA 0.02144, QP 0.02144, deconstructSigs 0.02162, NMF 0.02421


PD6409(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01659, GenSA 0.01591, QP 0.01591, deconstructSigs 0.01613, NMF 0.01817

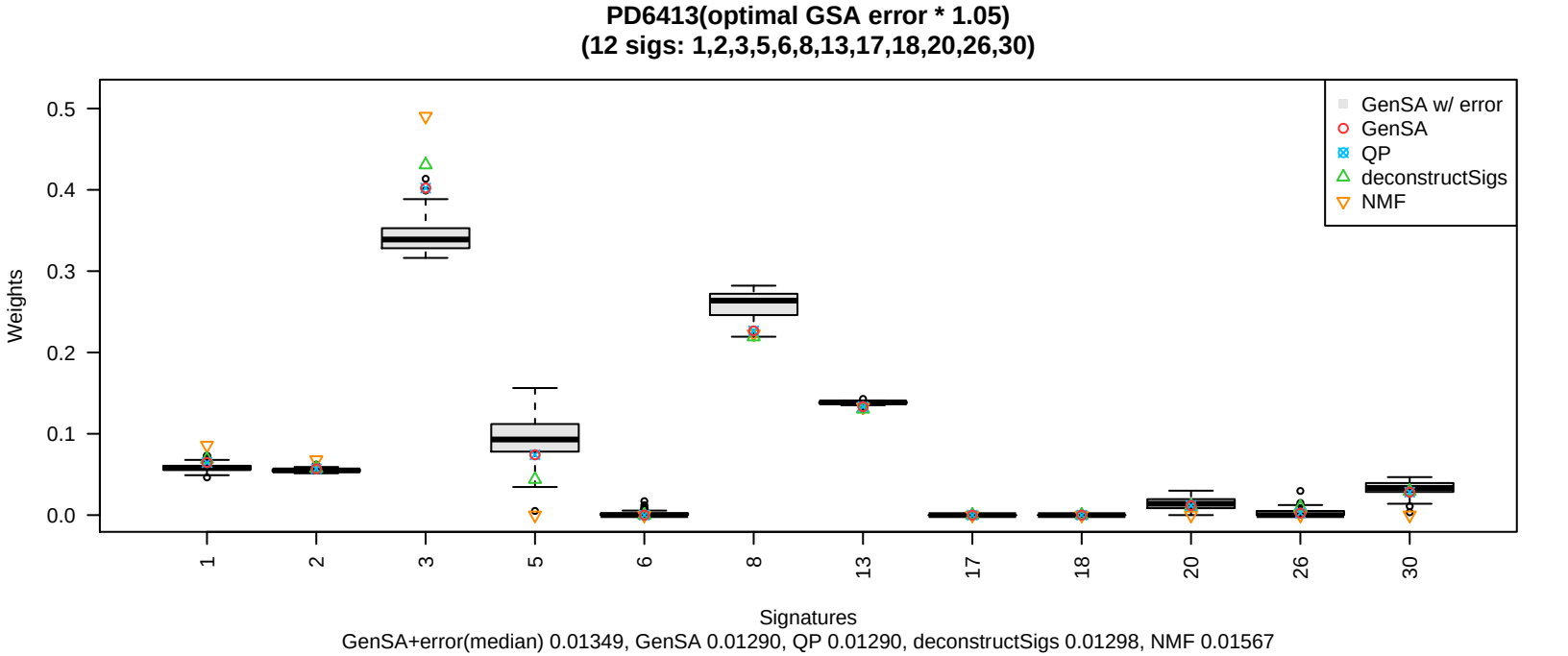

PD6410(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02207, GenSA 0.02120, QP 0.02120, deconstructSigs 0.02123, NMF 0.02242



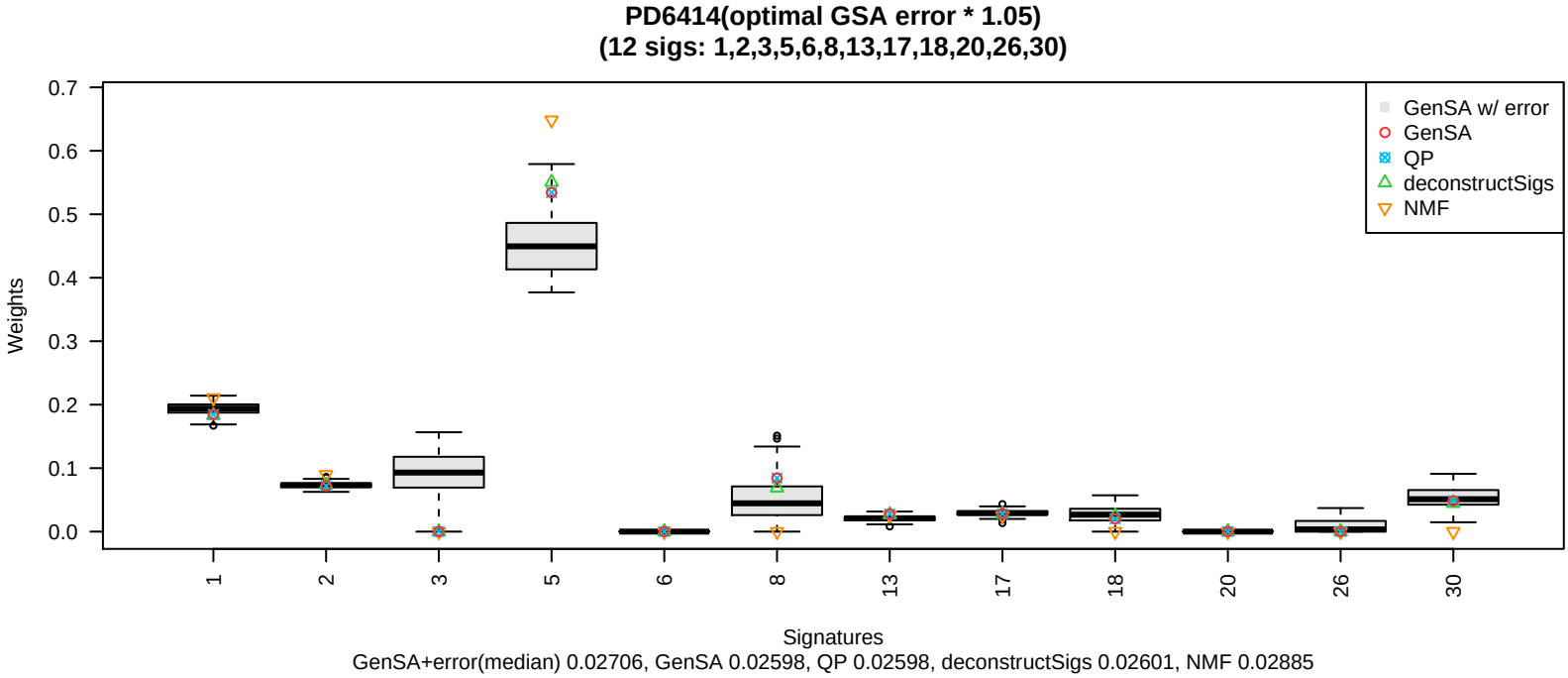
GenSA+error(median) 0.02222, GenSA 0.02139, QP 0.02139, deconstructSigs 0.02142, NMF 0.02285

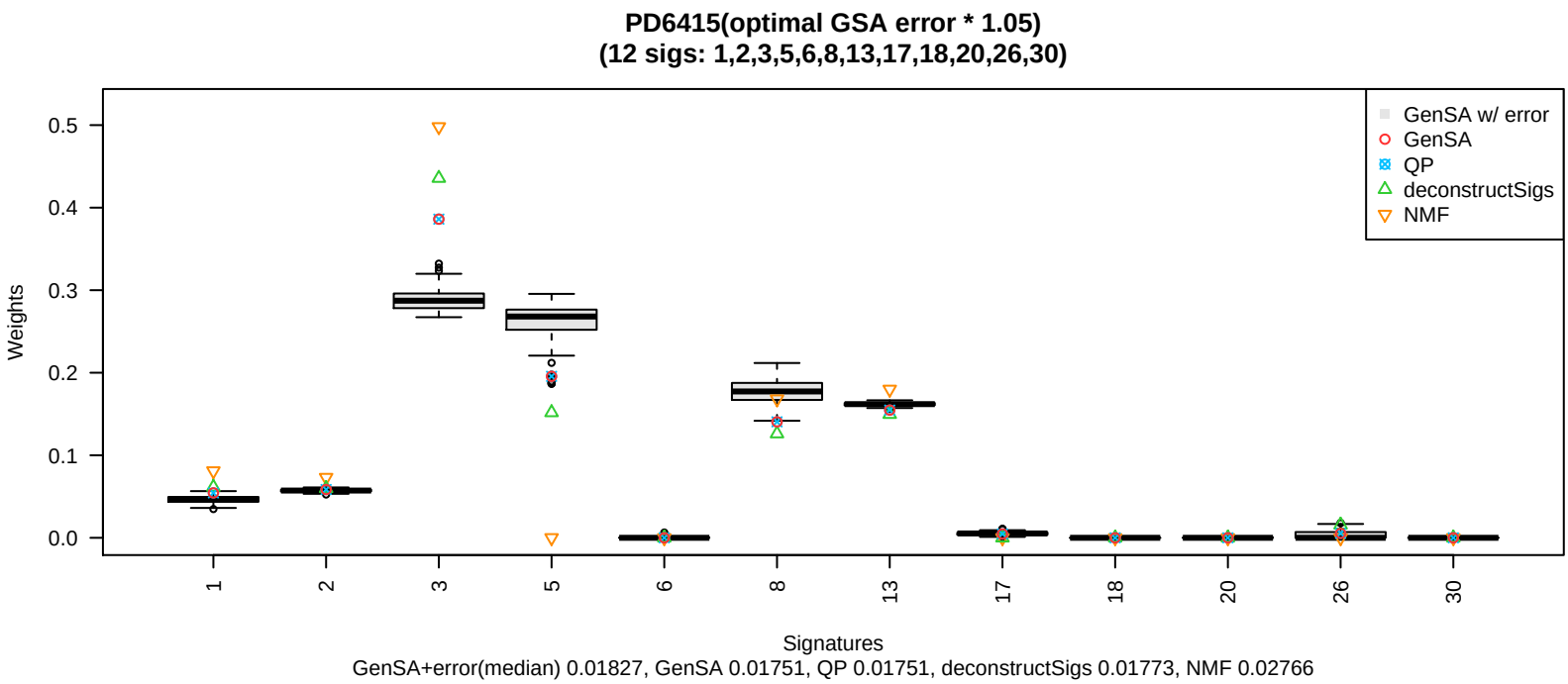


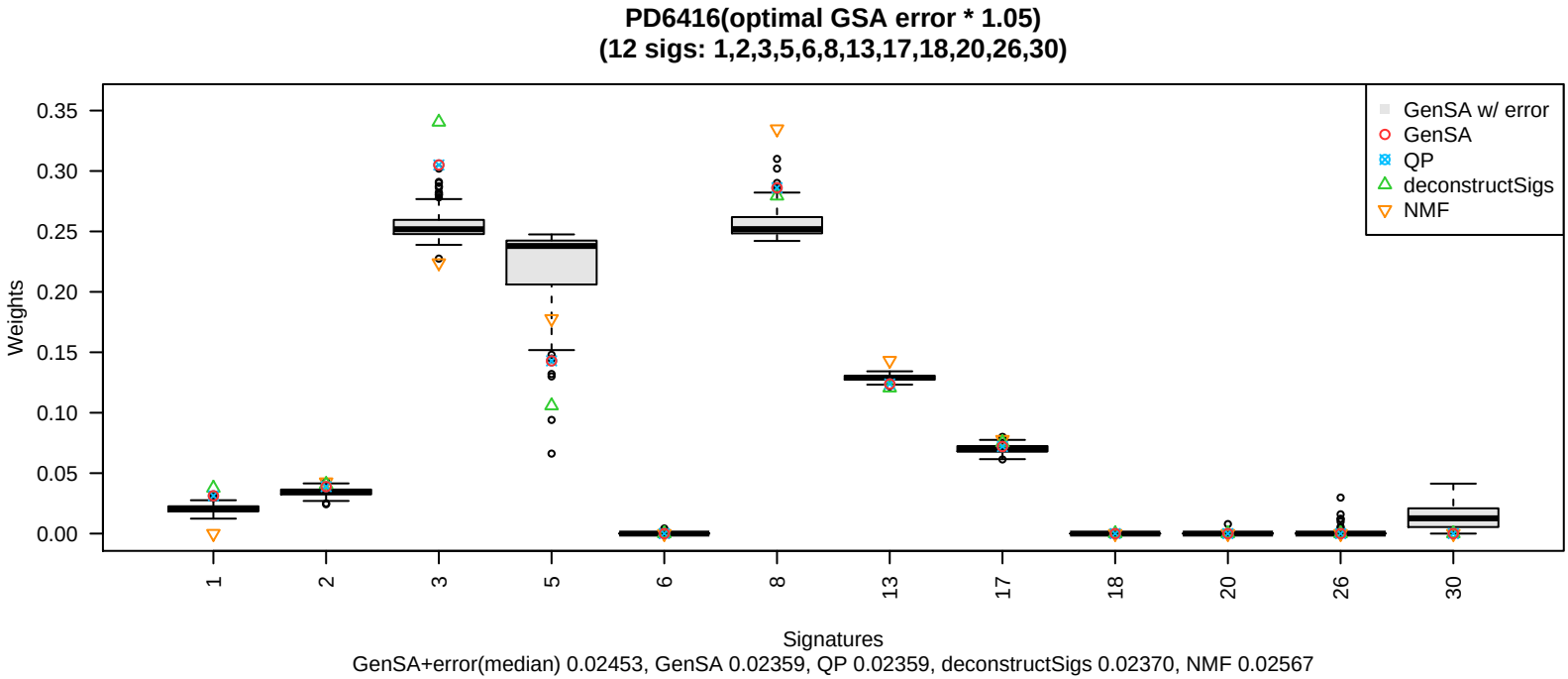
GenSA+error(median) 0.03928, GenSA 0.03787, QP 0.03787, deconstructSigs 0.03884, NMF 0.06244

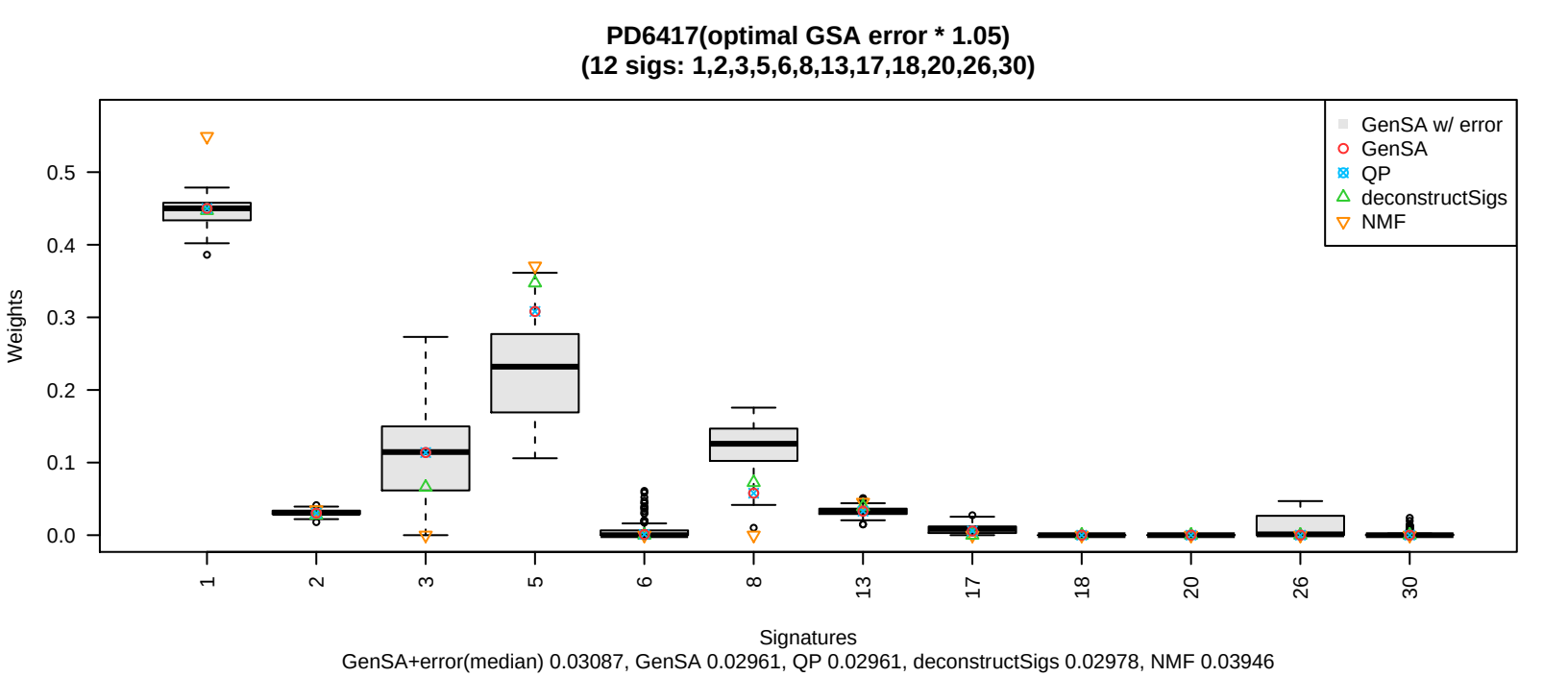


GenSA+error(median) 0.01349, GenSA 0.01290, QP 0.01290, deconstructSigs 0.01298, NMF 0.01567

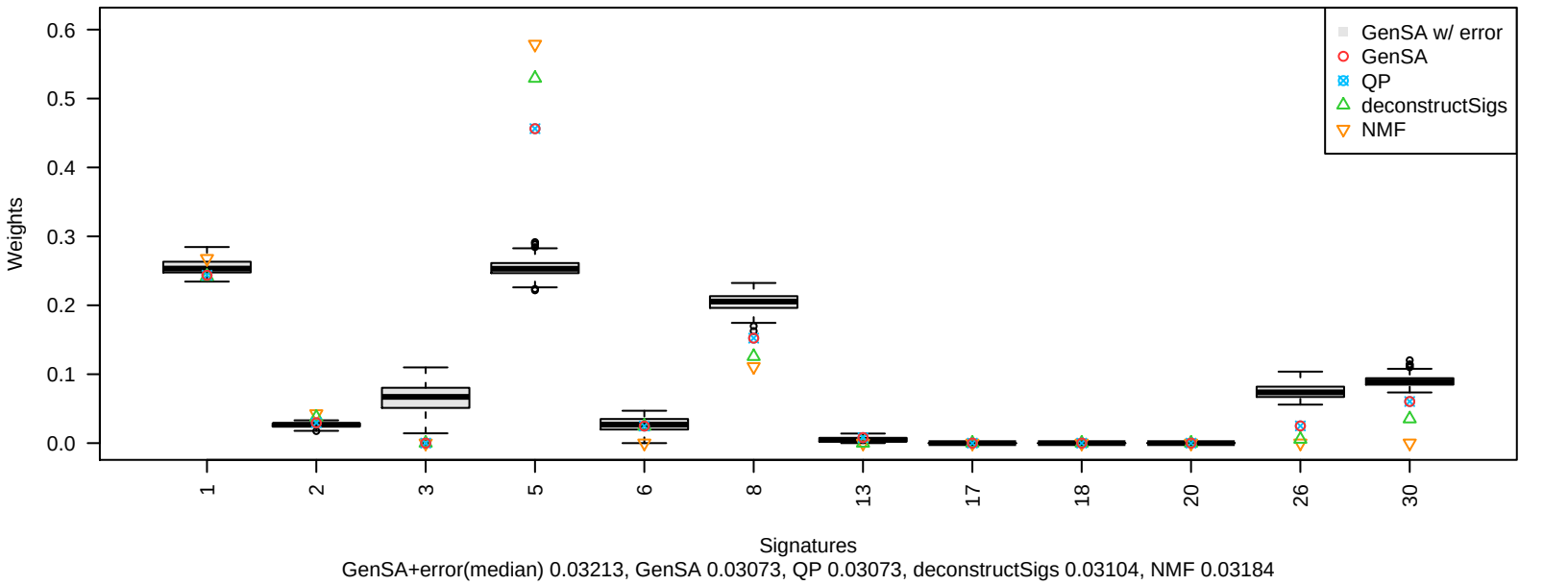

PD6414(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02706, GenSA 0.02598, QP 0.02598, deconstructSigs 0.02601, NMF 0.02885


PD6415(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01827, GenSA 0.01751, QP 0.01751, deconstructSigs 0.01773, NMF 0.02766

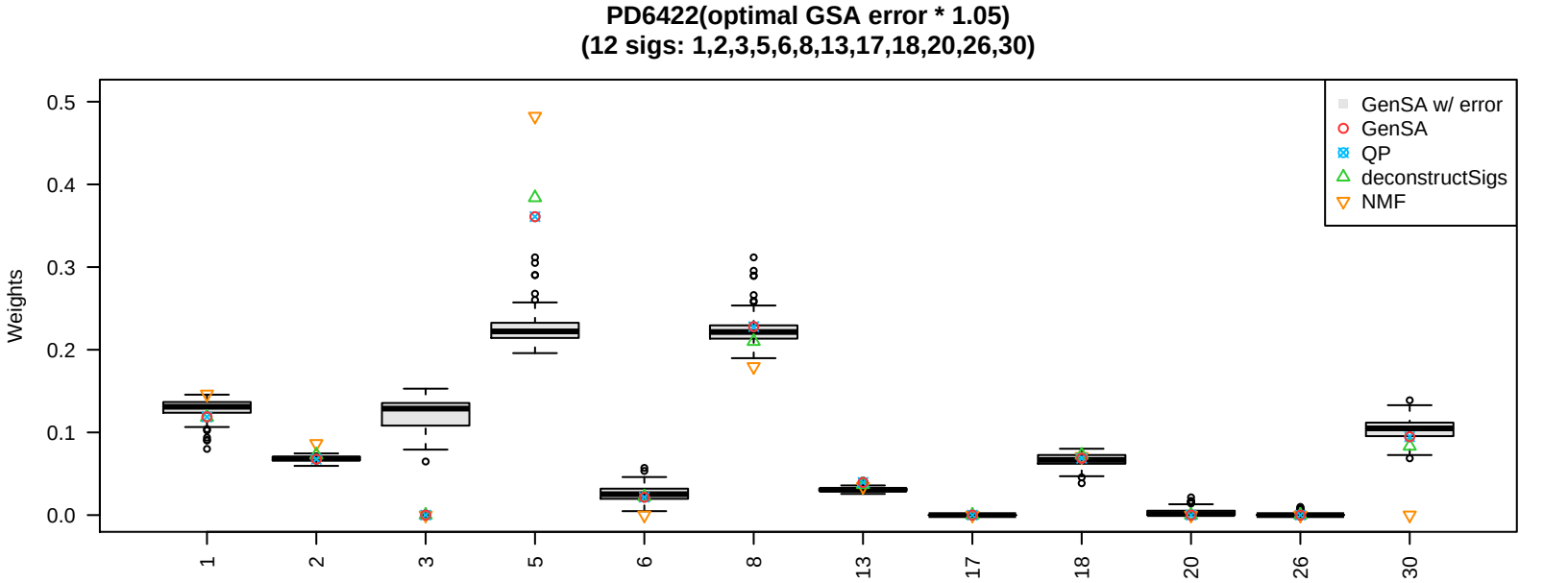

PD6416(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02453, GenSA 0.02359, QP 0.02359, deconstructSigs 0.02370, NMF 0.02567



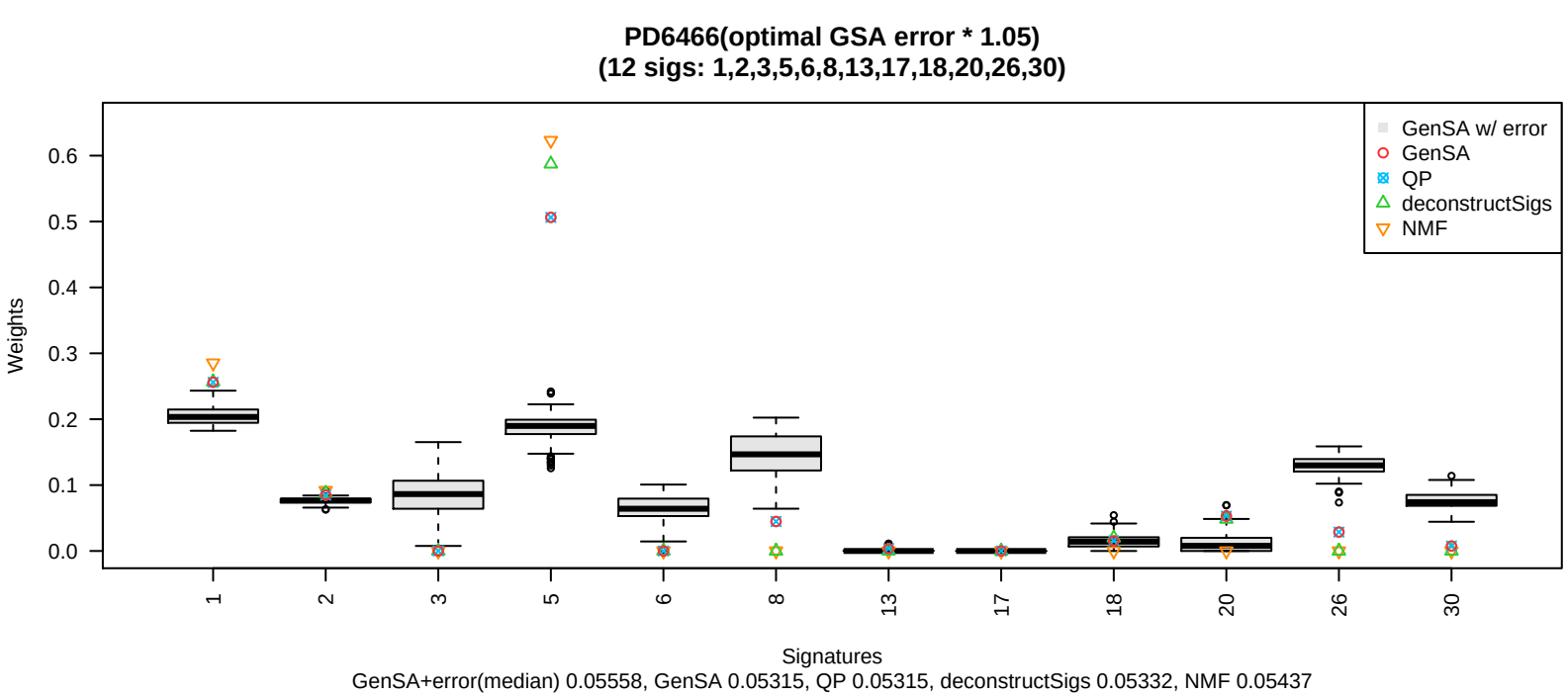
GenSA+error(median) 0.03087, GenSA 0.02961, QP 0.02961, deconstructSigs 0.02978, NMF 0.03946

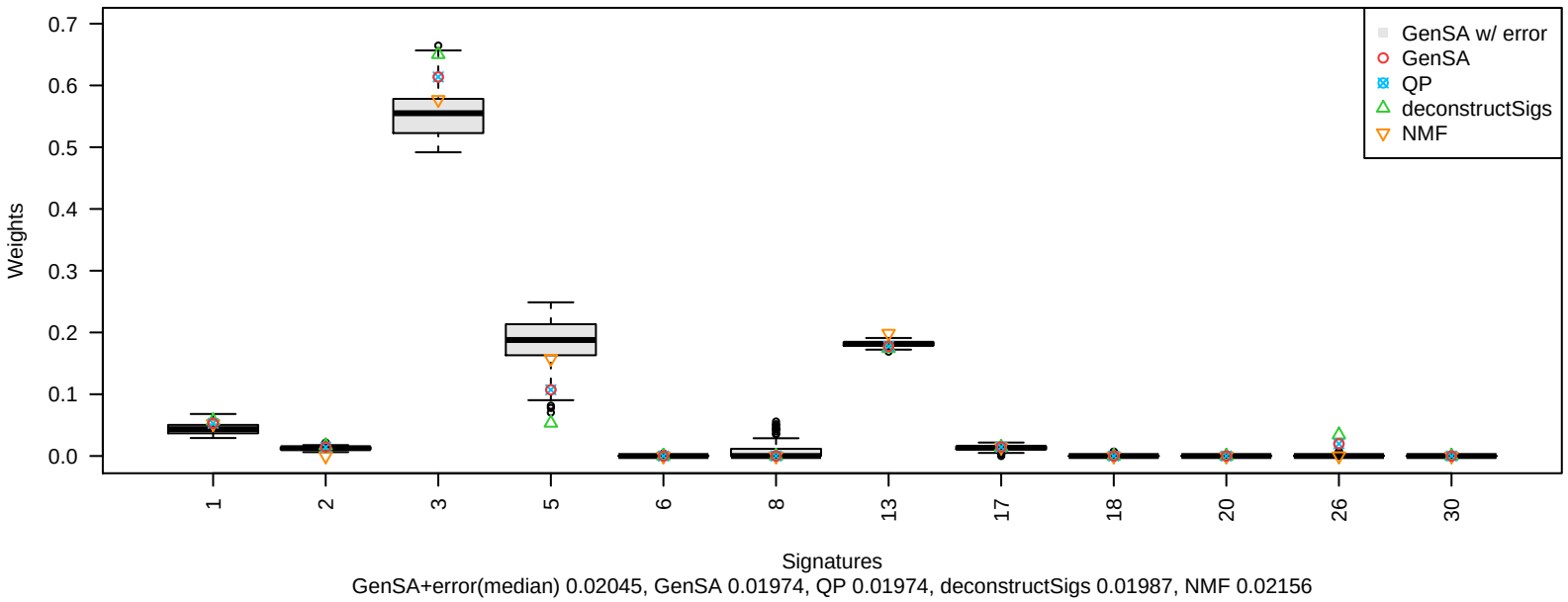


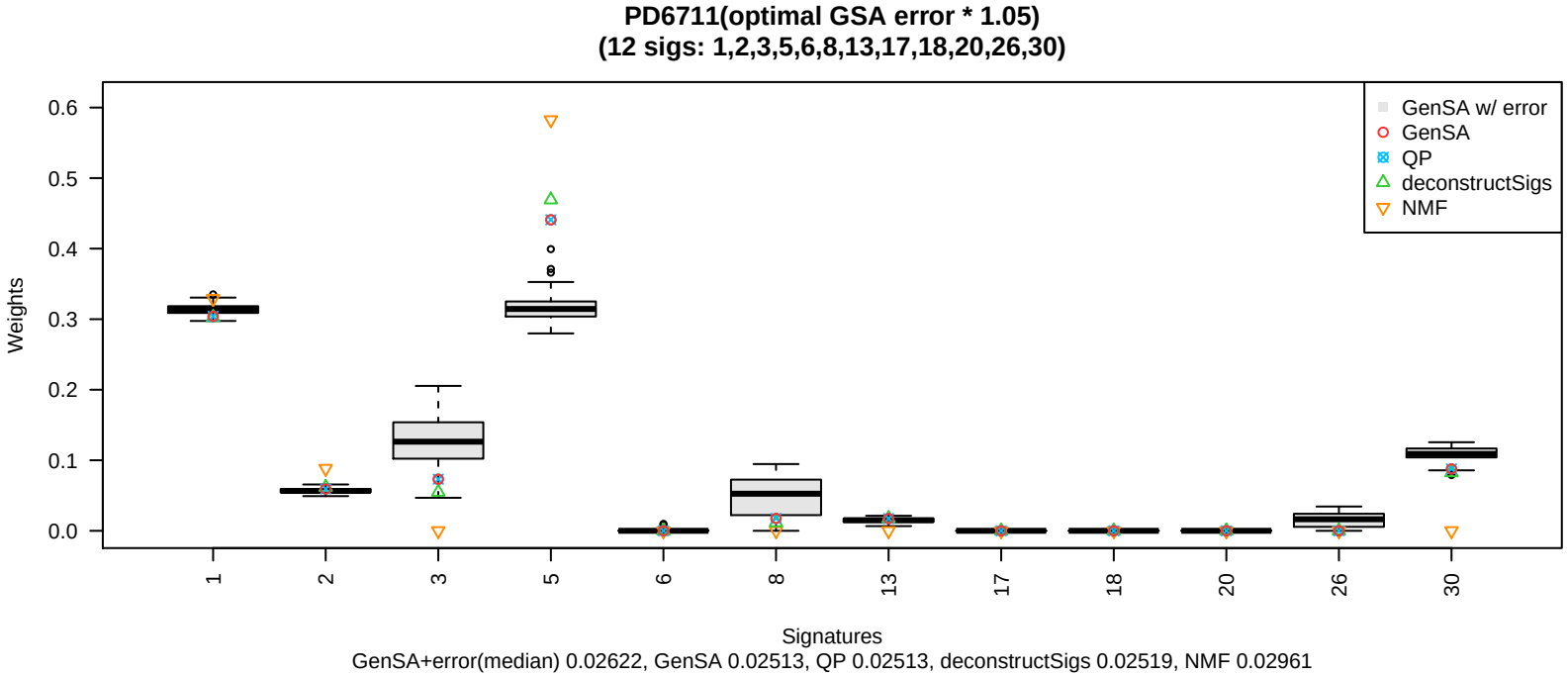
GenSA+error(median) 0.03213, GenSA 0.03073, QP 0.03073, deconstructSigs 0.03104, NMF 0.03184

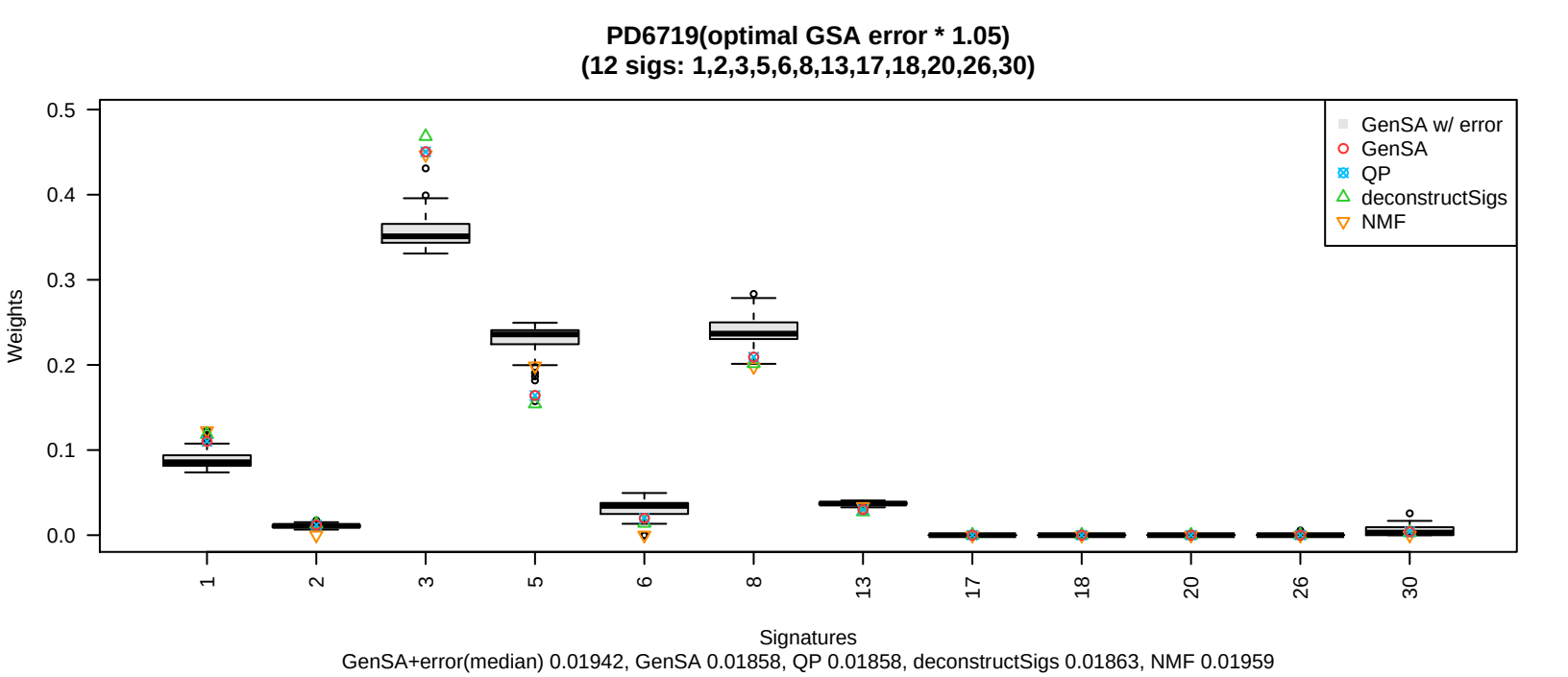


GenSA+error(median) 0.03120, GenSA 0.02981, QP 0.02981, deconstructSigs 0.02989, NMF 0.03252

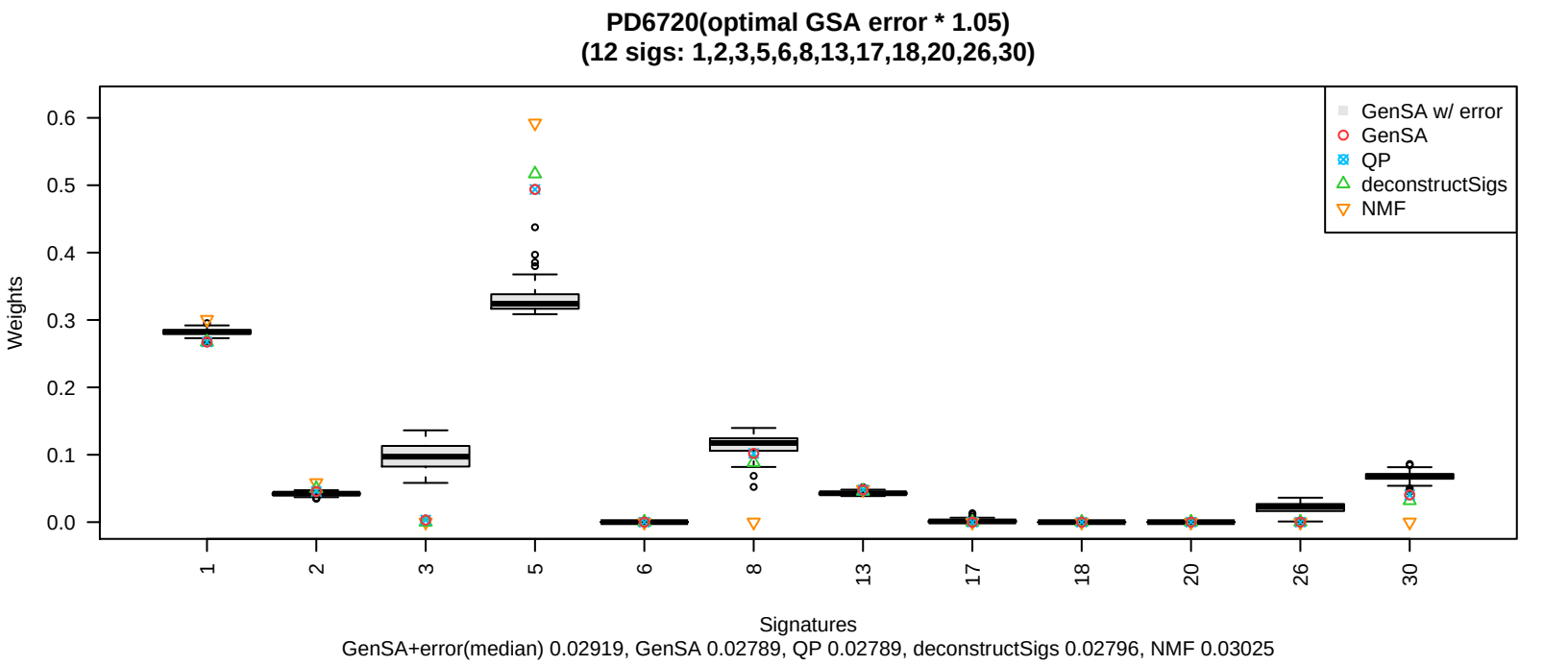

PD6466(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.05558, GenSA 0.05315, QP 0.05315, deconstructSigs 0.05332, NMF 0.05437


PD6684(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02045, GenSA 0.01974, QP 0.01974, deconstructSigs 0.01987, NMF 0.02156

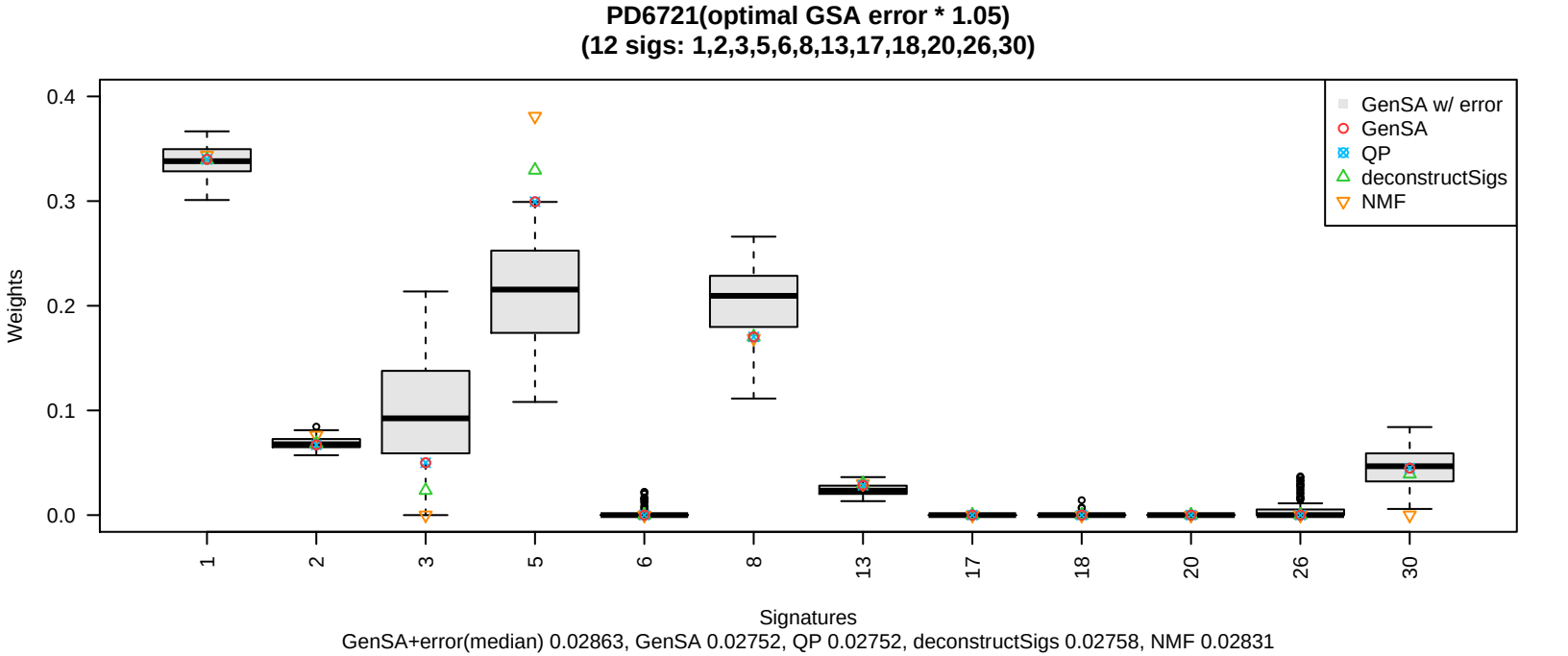

PD6711(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02622, GenSA 0.02513, QP 0.02513, deconstructSigs 0.02519, NMF 0.02961



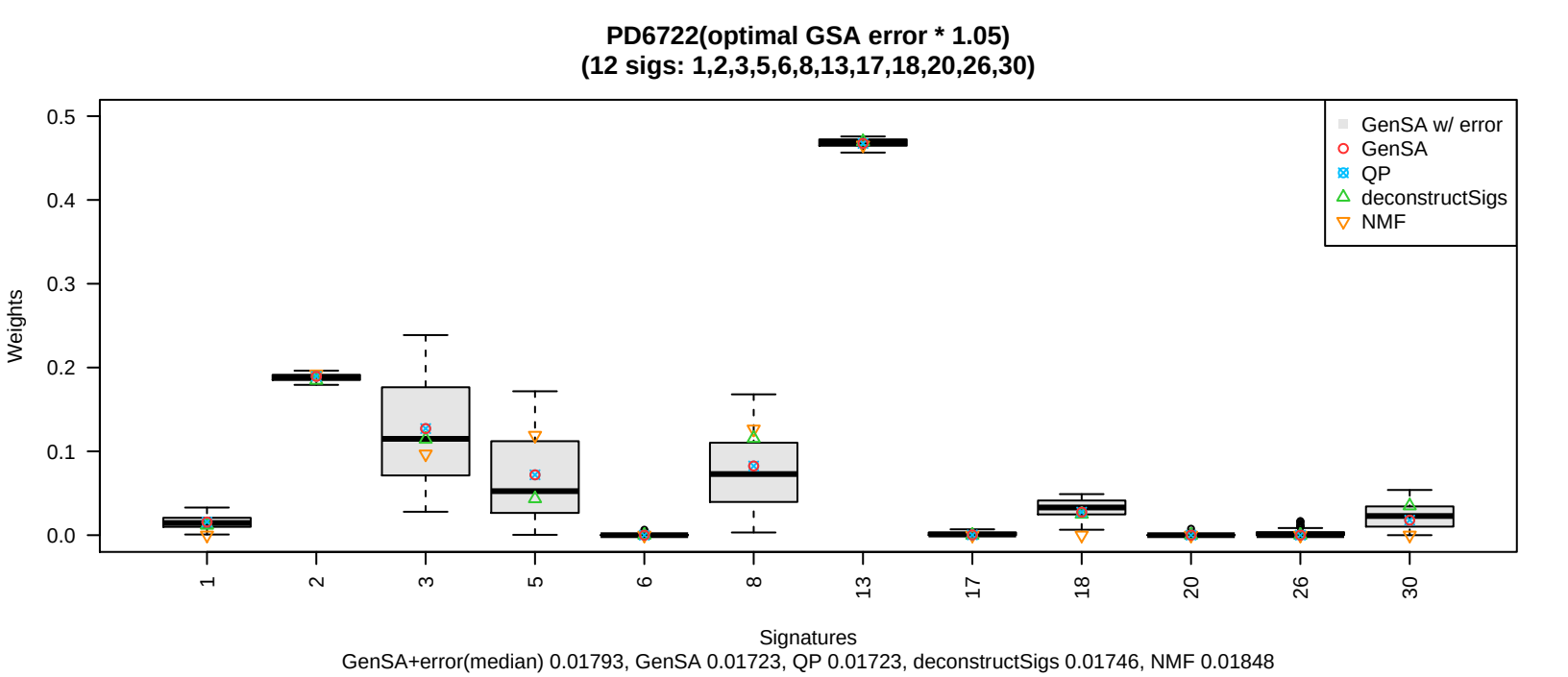
GenSA+error(median) 0.01942, GenSA 0.01858, QP 0.01858, deconstructSigs 0.01863, NMF 0.01959

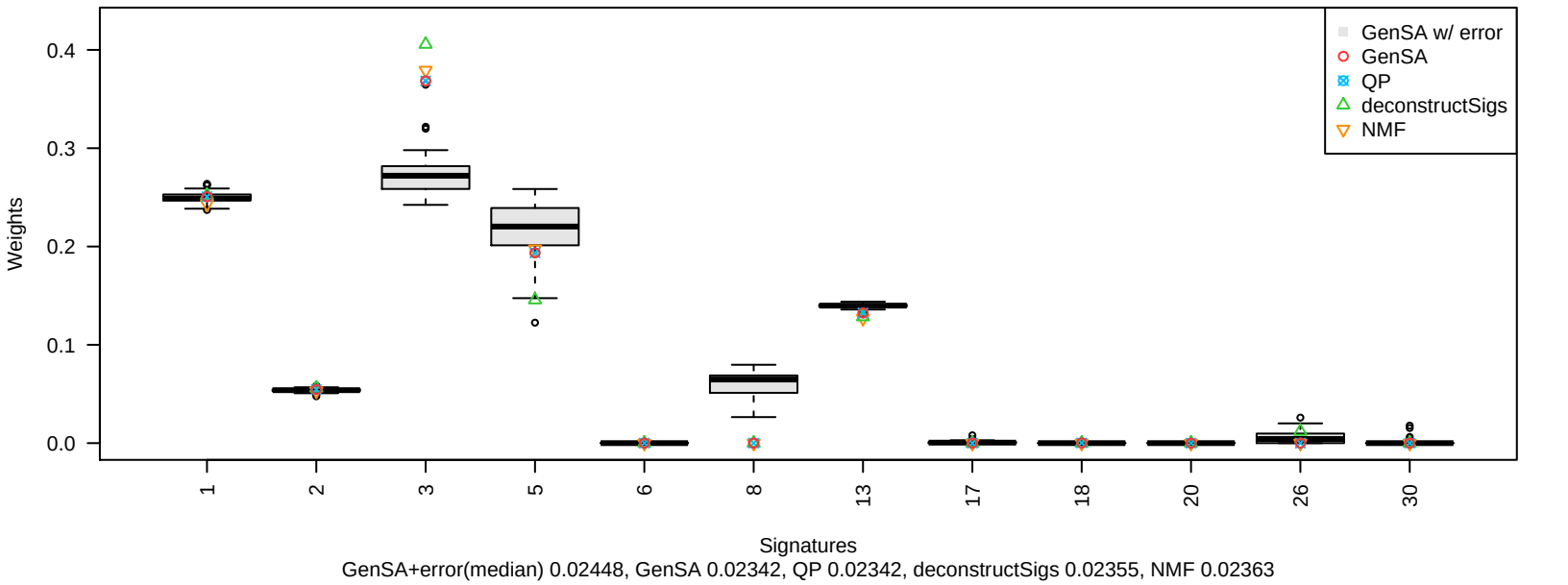


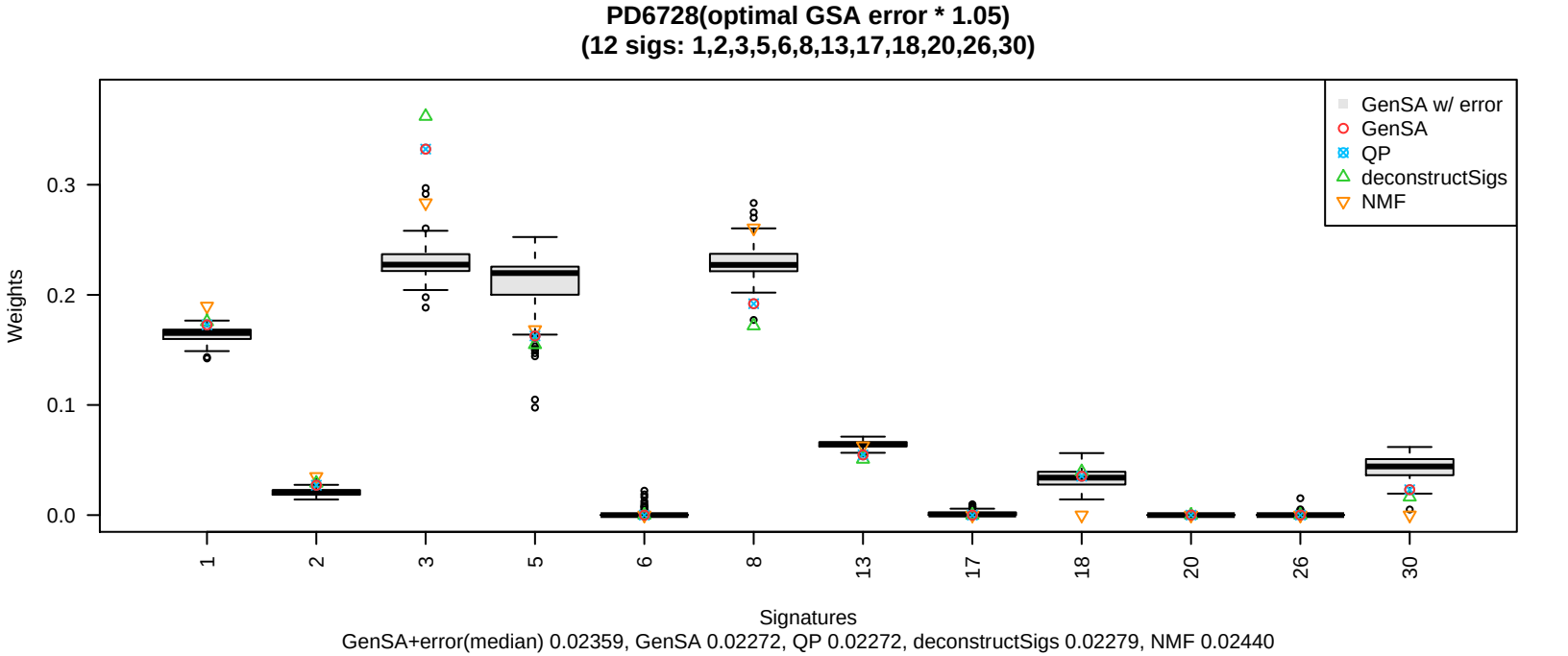
GenSA+error(median) 0.02919, GenSA 0.02789, QP 0.02789, deconstructSigs 0.02796, NMF 0.03025

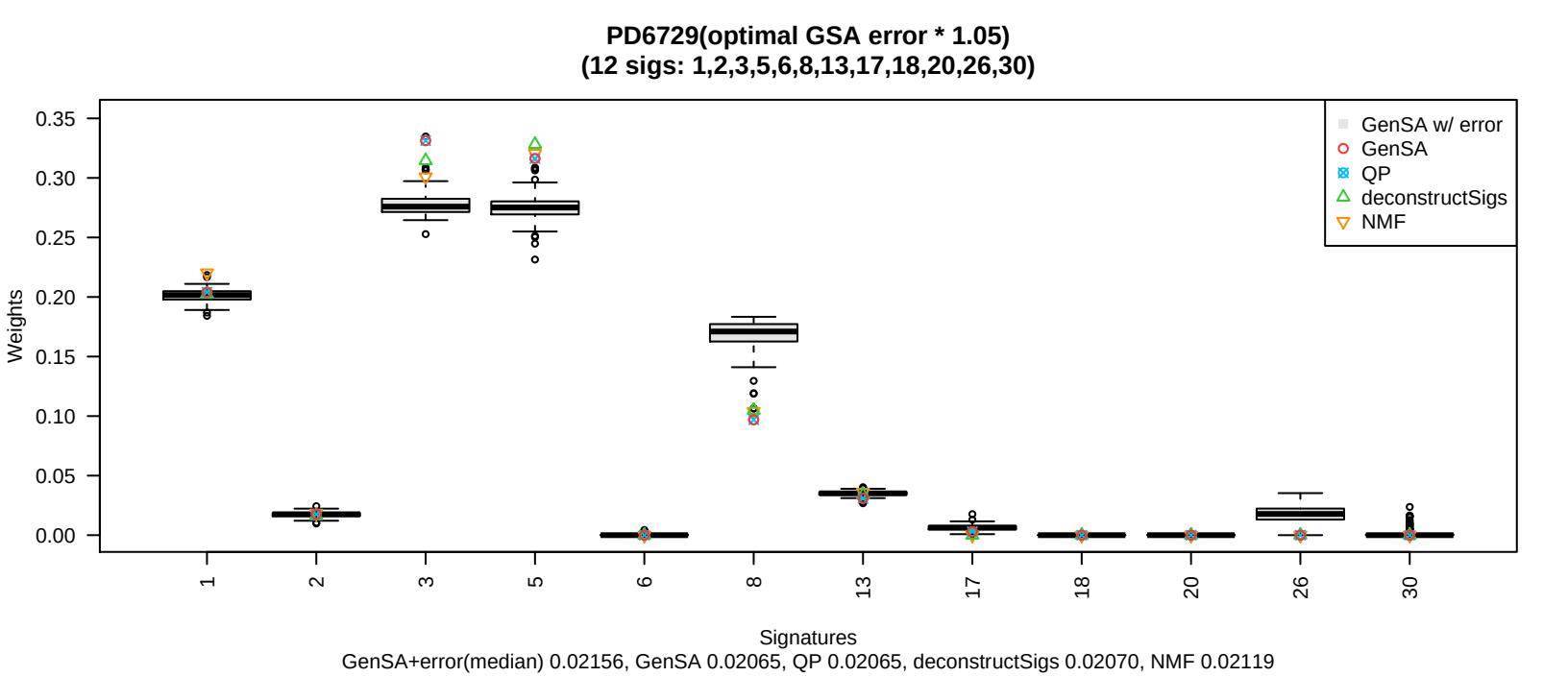


GenSA+error(median) 0.02863, GenSA 0.02752, QP 0.02752, deconstructSigs 0.02758, NMF 0.02831

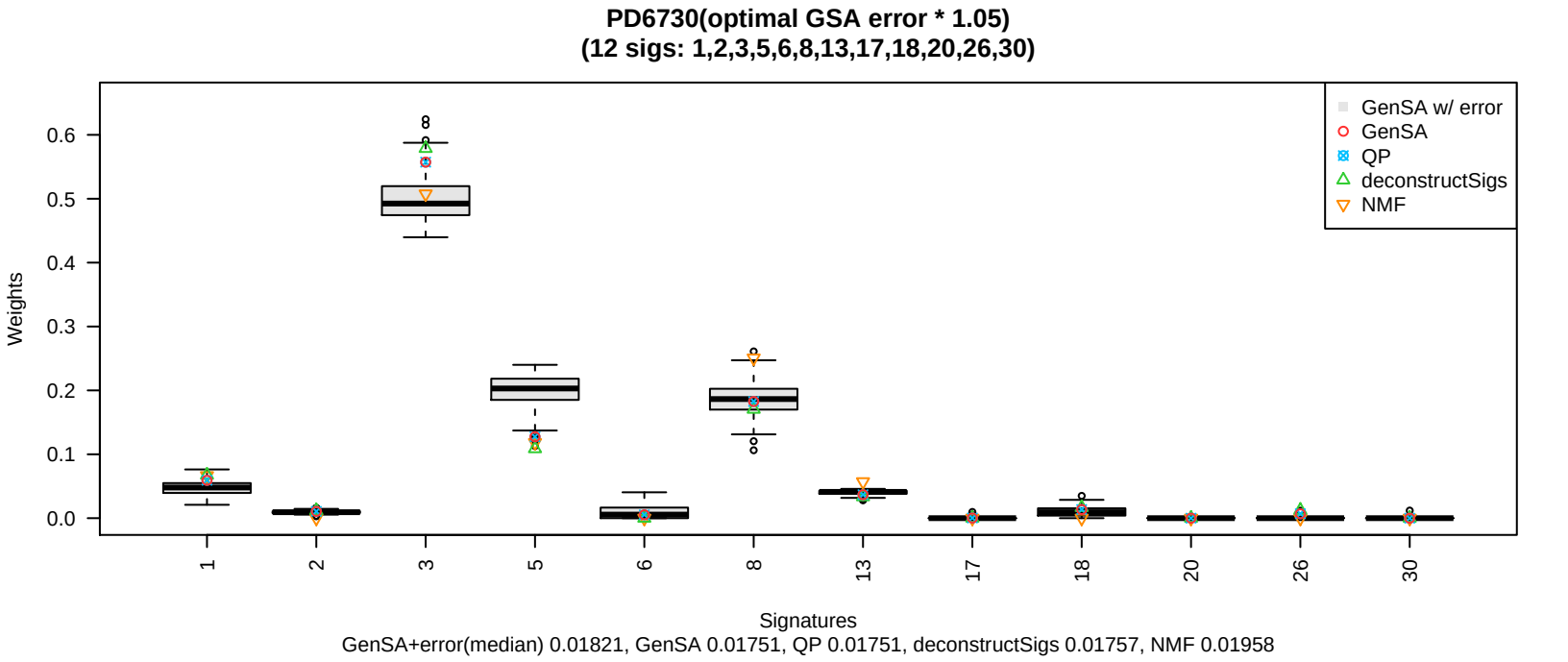

PD6722(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01793, GenSA 0.01723, QP 0.01723, deconstructSigs 0.01746, NMF 0.01848


PD6727(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02448, GenSA 0.02342, QP 0.02342, deconstructSigs 0.02355, NMF 0.02363

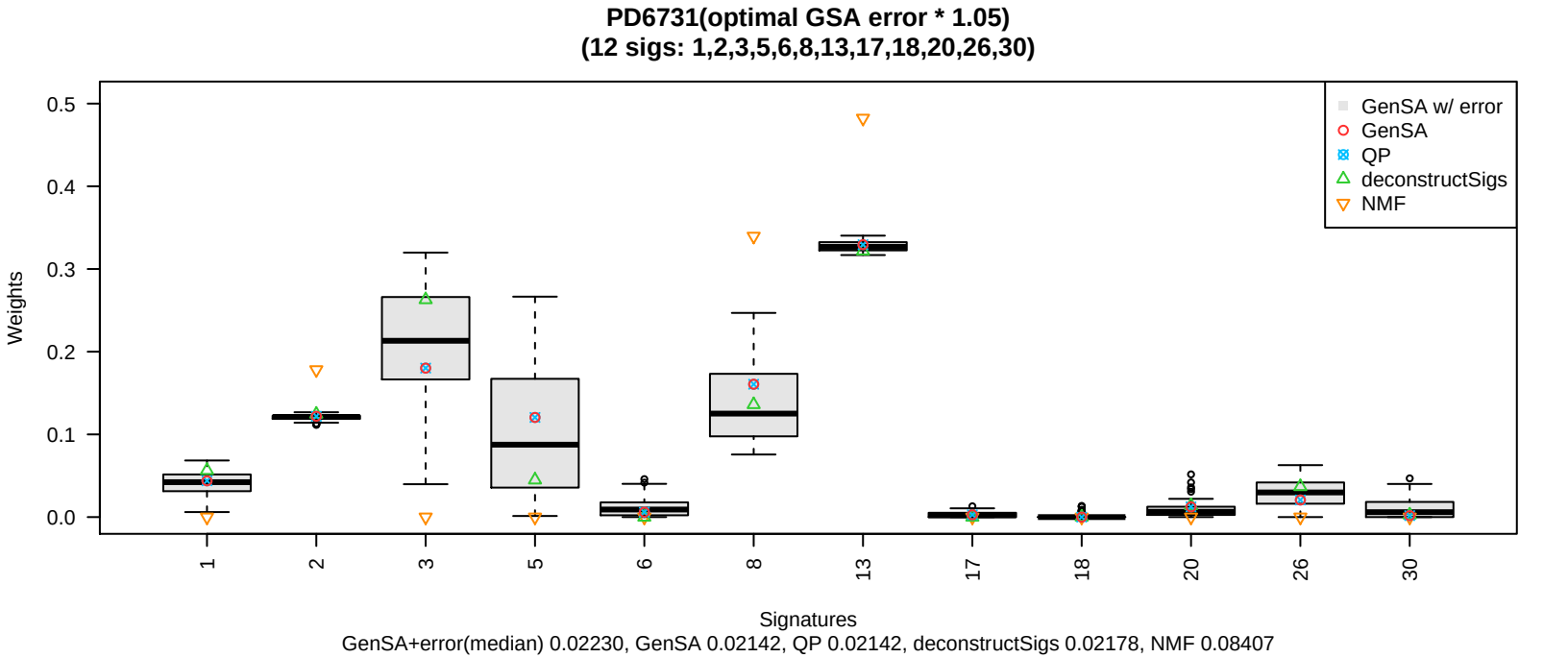

PD6728(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02359, GenSA 0.02272, QP 0.02272, deconstructSigs 0.02279, NMF 0.02440



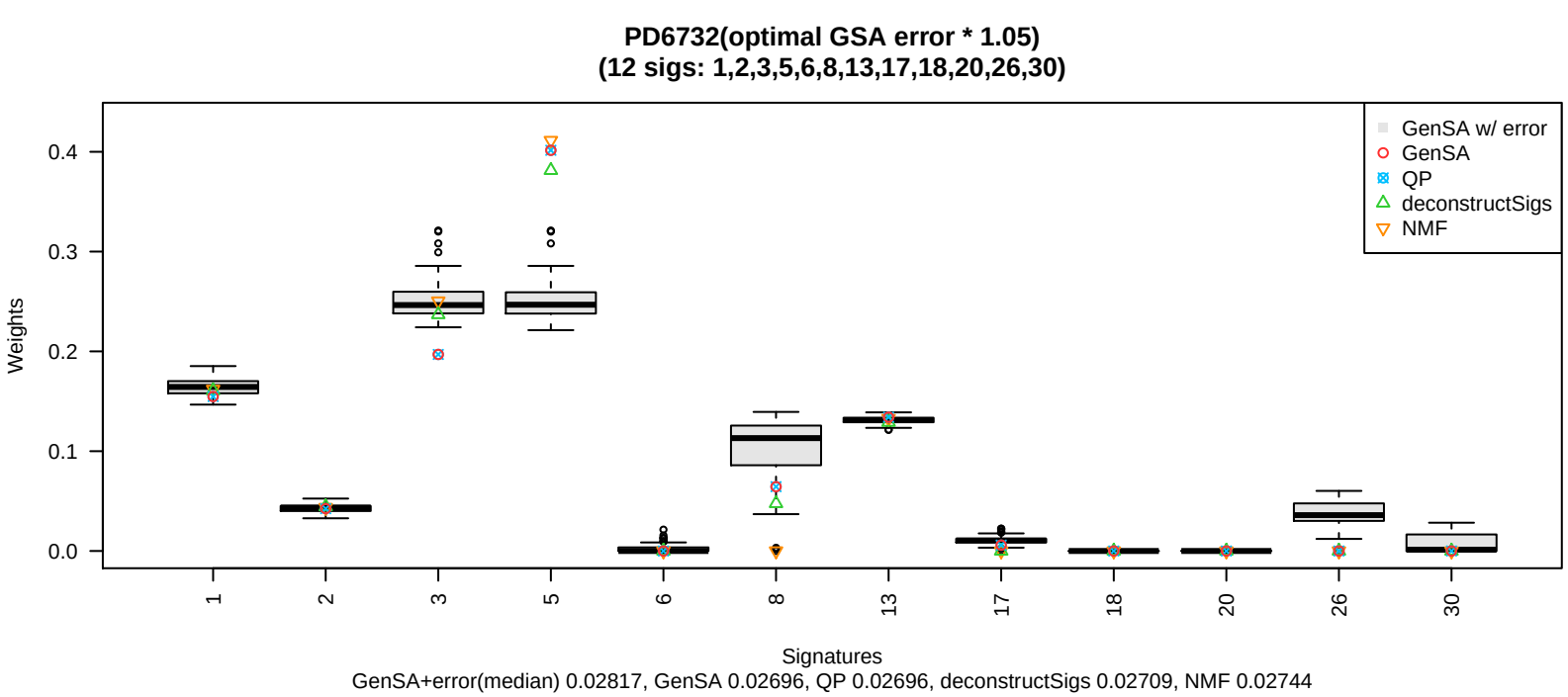
GenSA+error(median) 0.02156, GenSA 0.02065, QP 0.02065, deconstructSigs 0.02070, NMF 0.02119

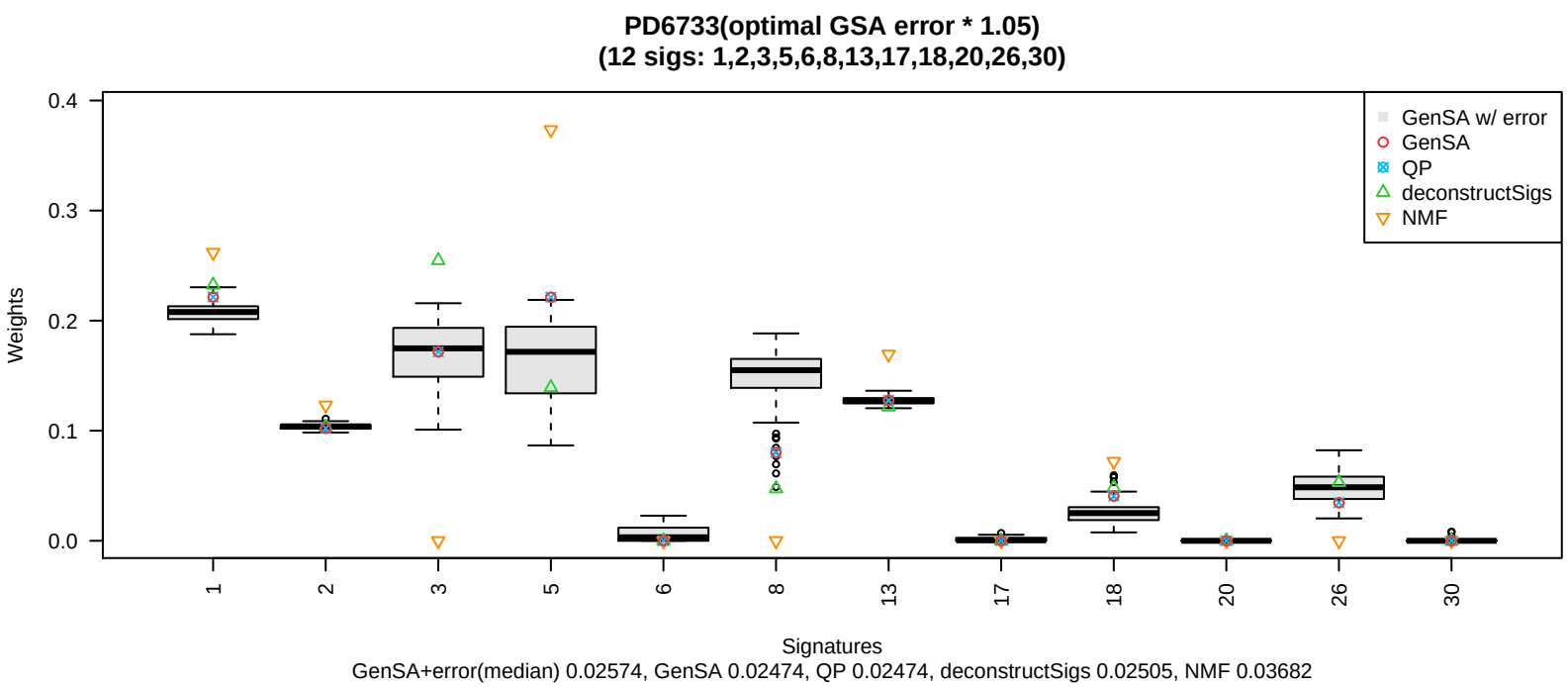


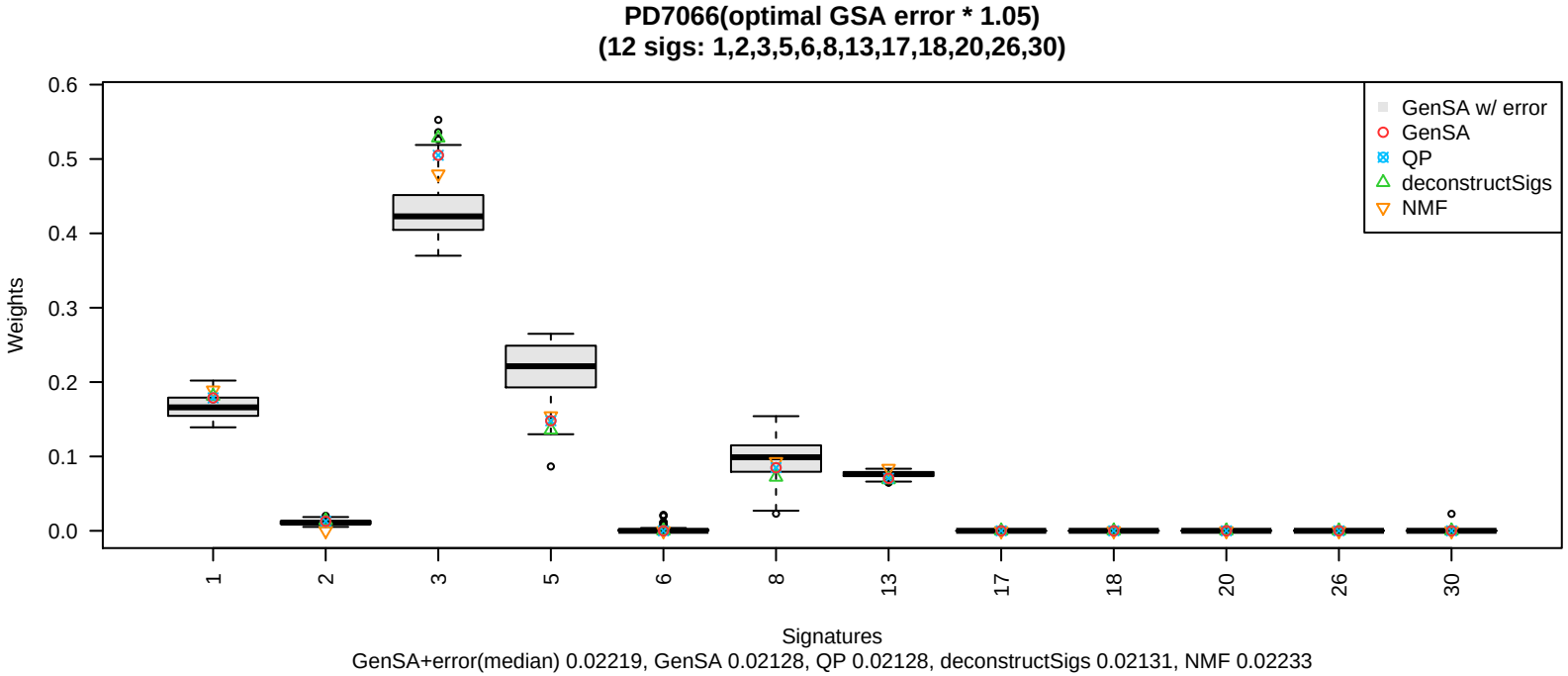
GenSA+error(median) 0.01821, GenSA 0.01751, QP 0.01751, deconstructSigs 0.01757, NMF 0.01958

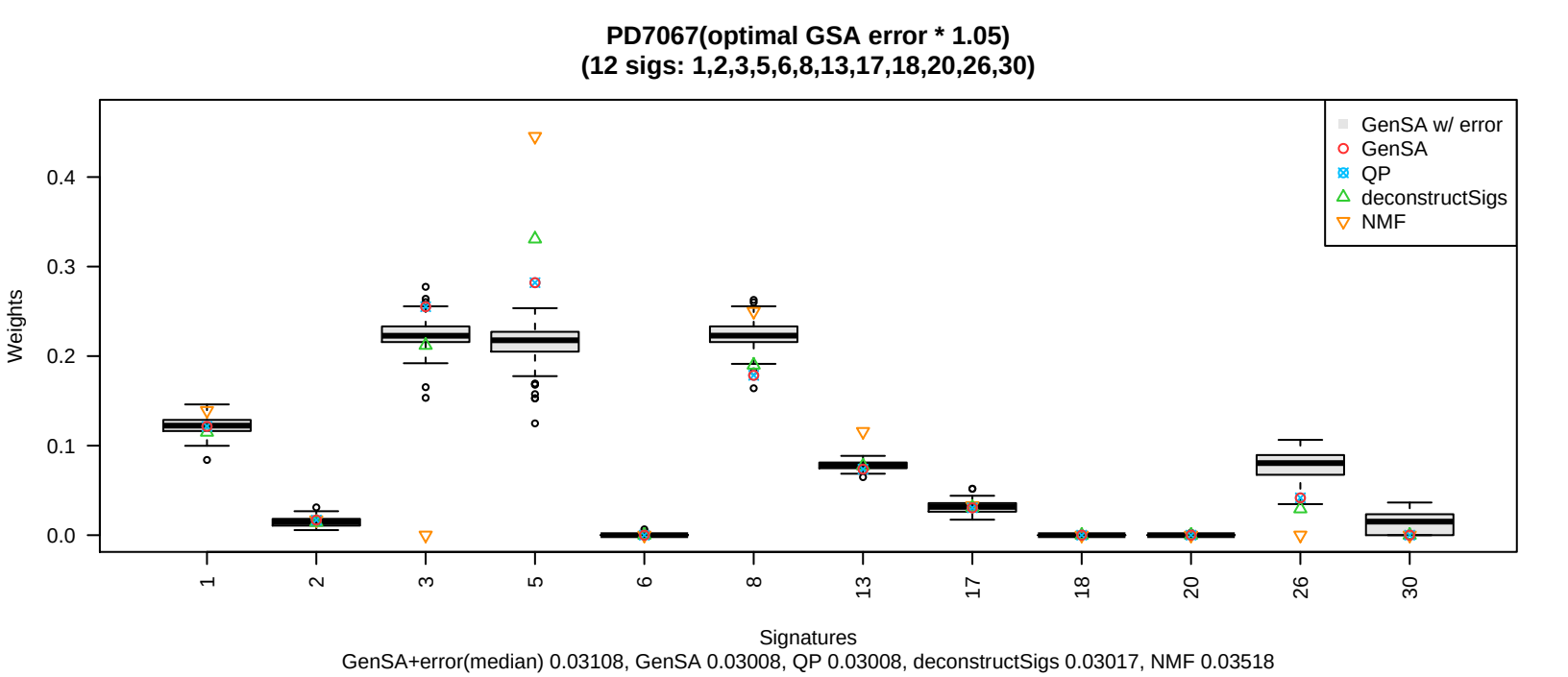


GenSA+error(median) 0.02230, GenSA 0.02142, QP 0.02142, deconstructSigs 0.02178, NMF 0.08407

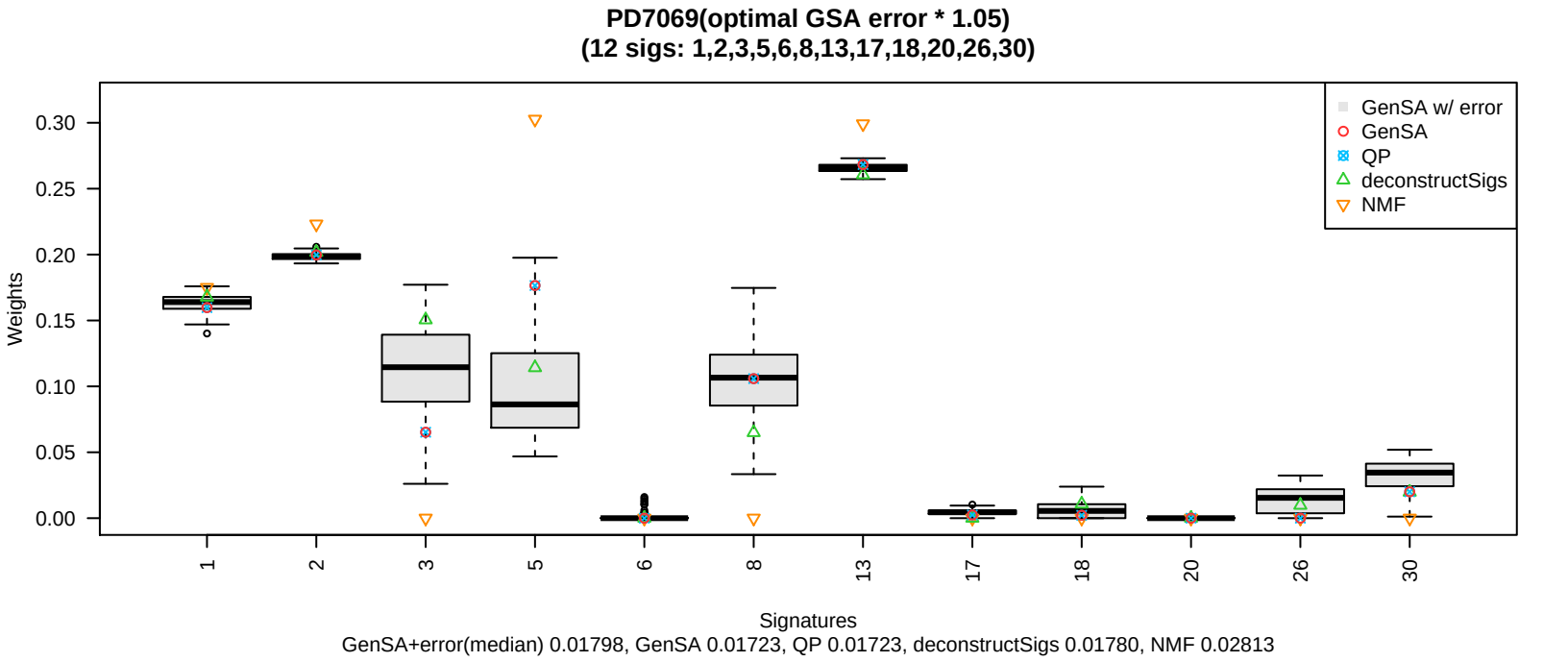

PD6732(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02817, GenSA 0.02696, QP 0.02696, deconstructSigs 0.02709, NMF 0.02744


PD6733(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02574, GenSA 0.02474, QP 0.02474, deconstructSigs 0.02505, NMF 0.03682

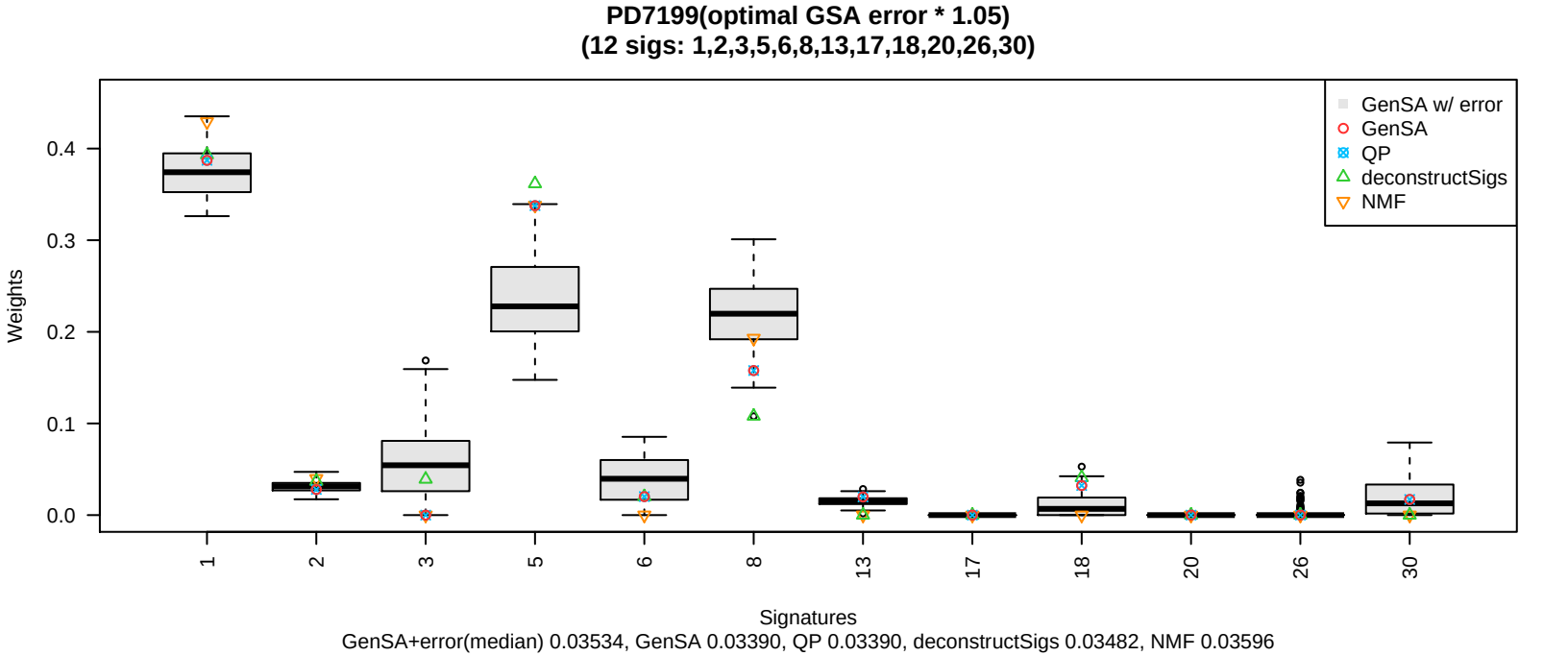

PD7066(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02219, GenSA 0.02128, QP 0.02128, deconstructSigs 0.02131, NMF 0.02233



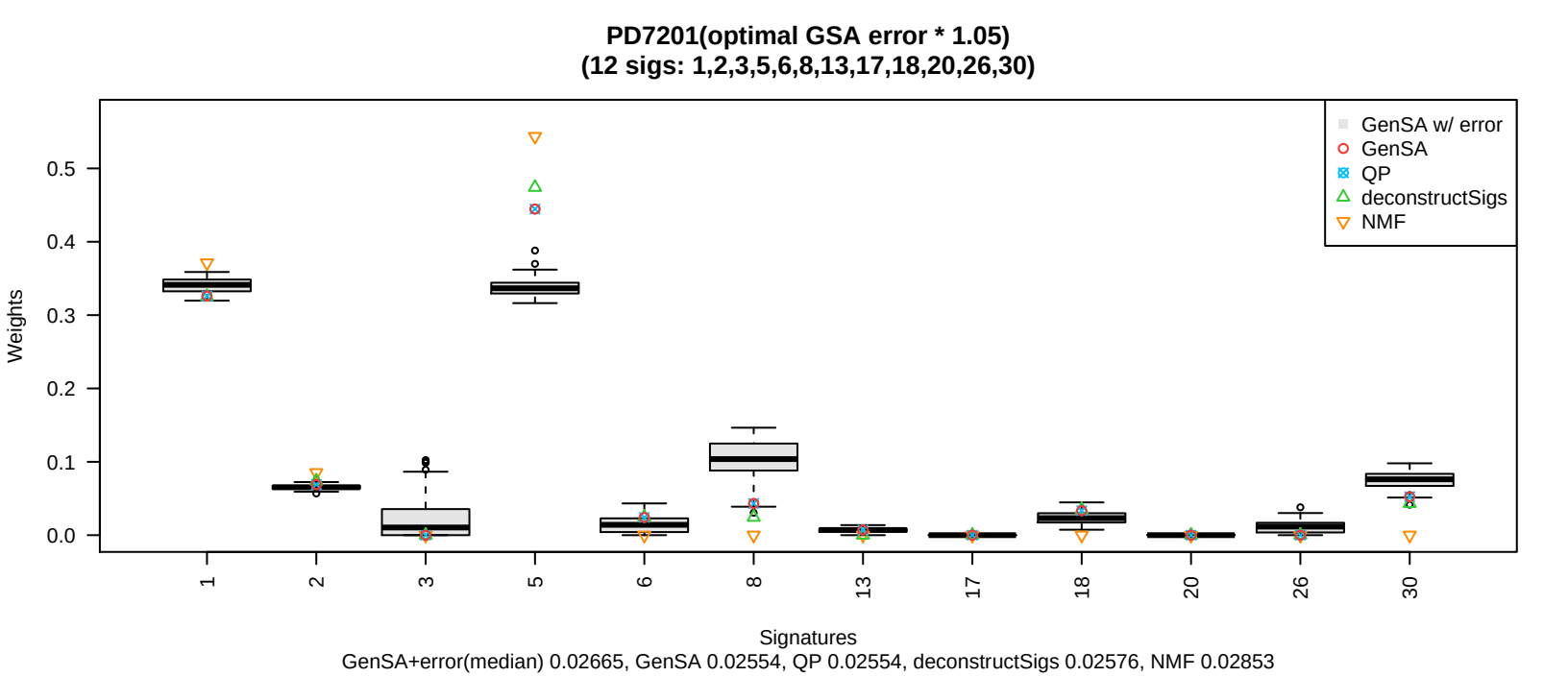
GenSA+error(median) 0.03108, GenSA 0.03008, QP 0.03008, deconstructSigs 0.03017, NMF 0.03518

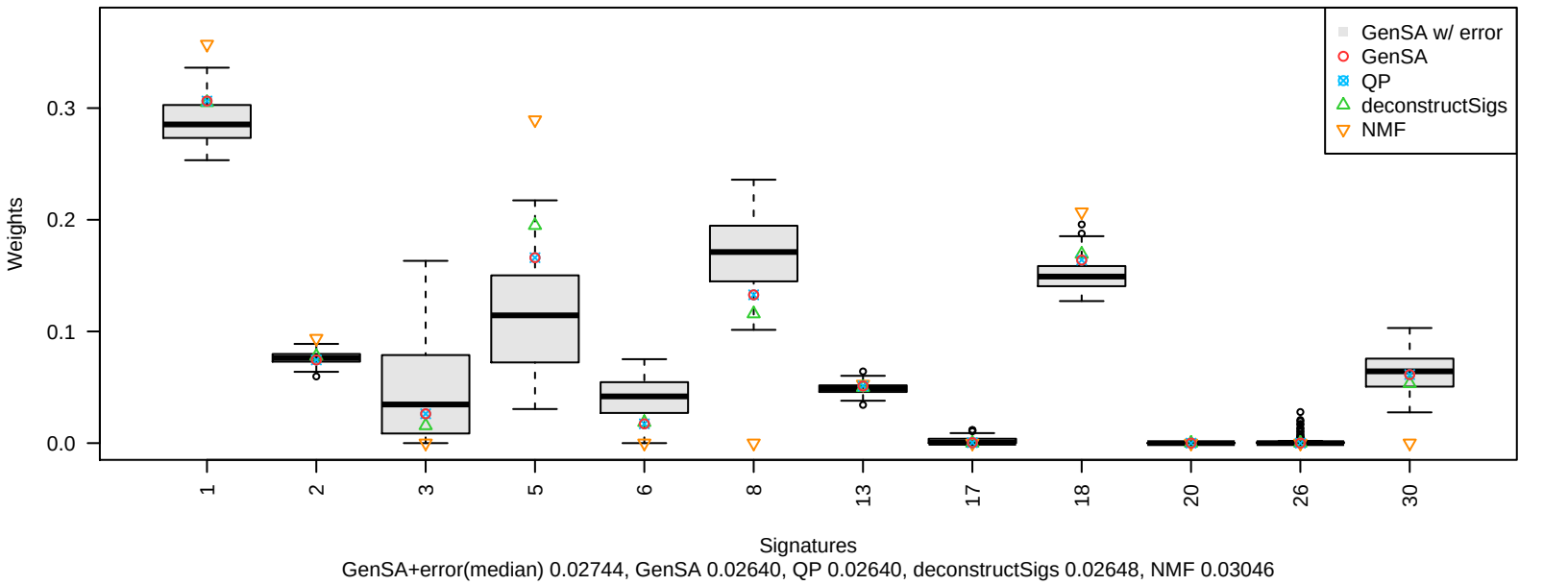


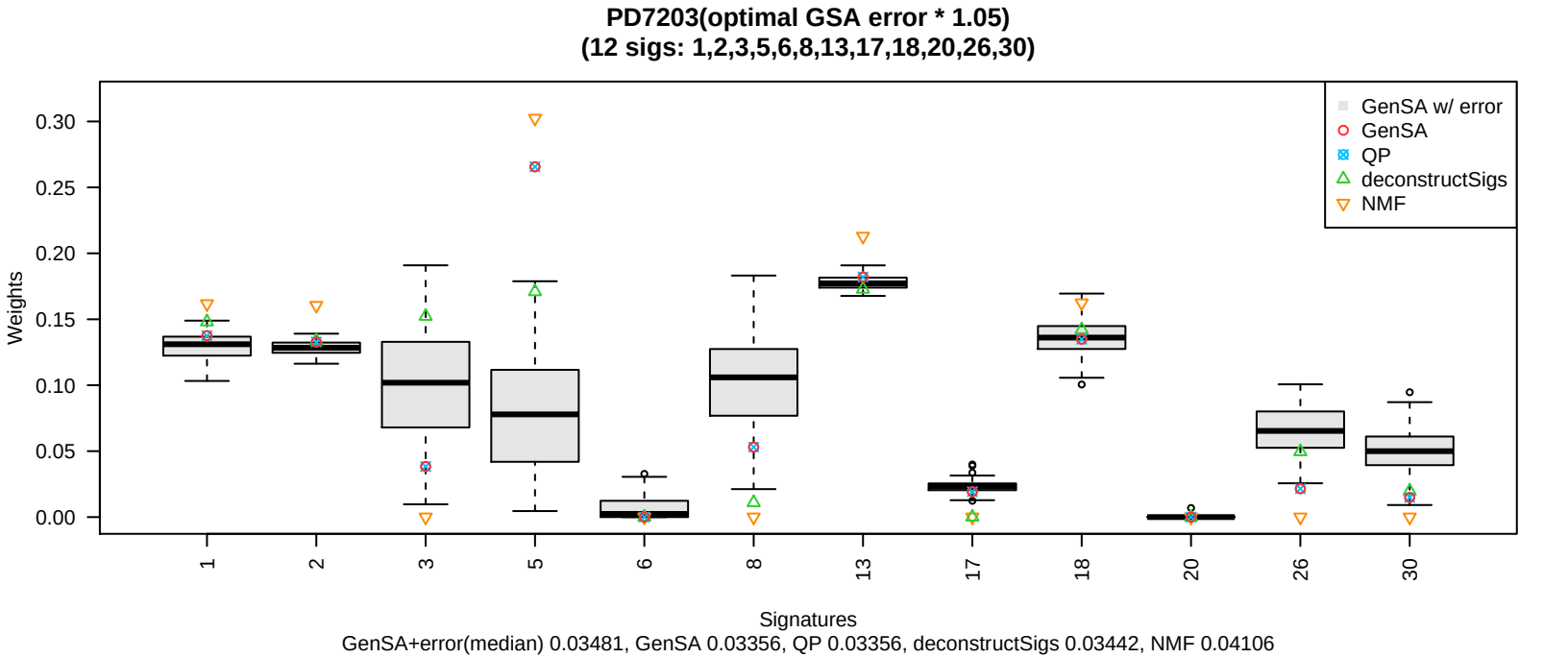
GenSA+error(median) 0.01798, GenSA 0.01723, QP 0.01723, deconstructSigs 0.01780, NMF 0.02813

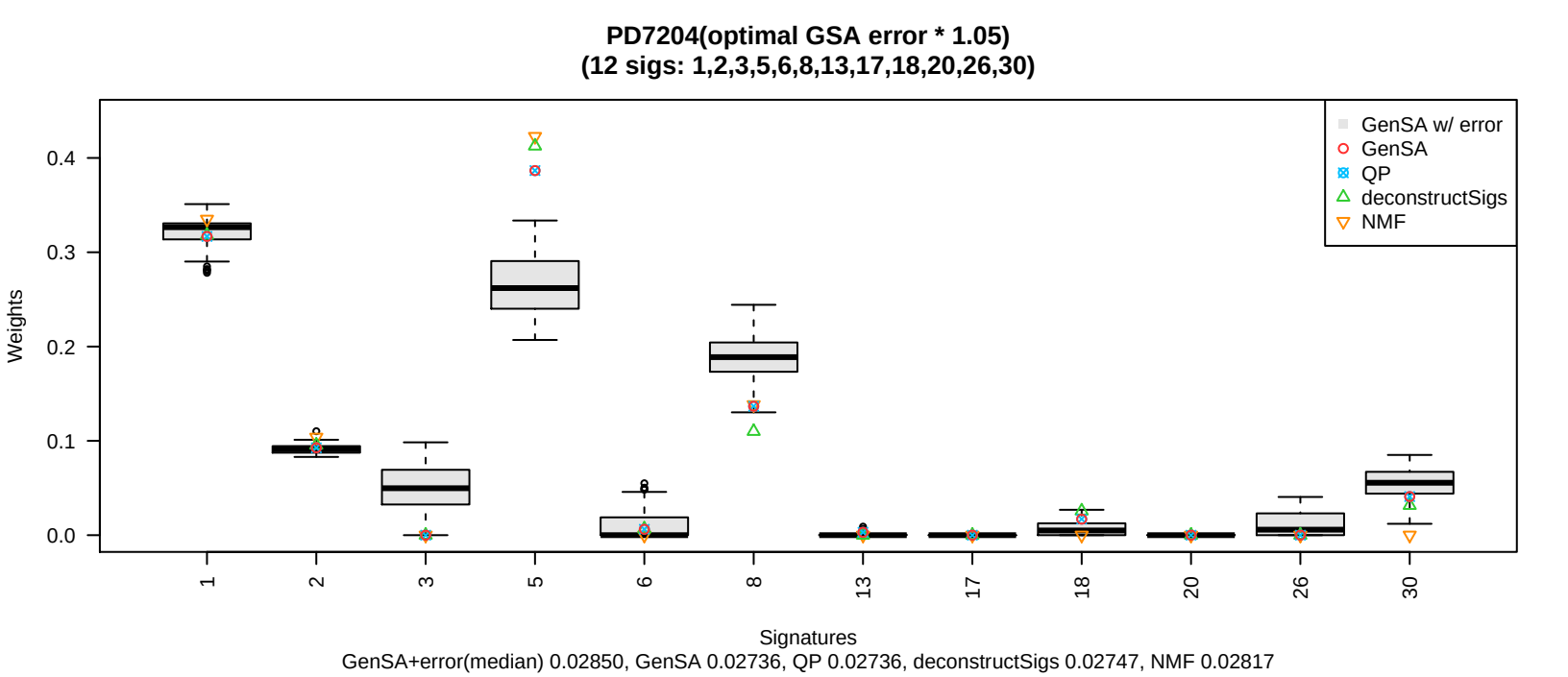


GenSA+error(median) 0.03534, GenSA 0.03390, QP 0.03390, deconstructSigs 0.03482, NMF 0.03596

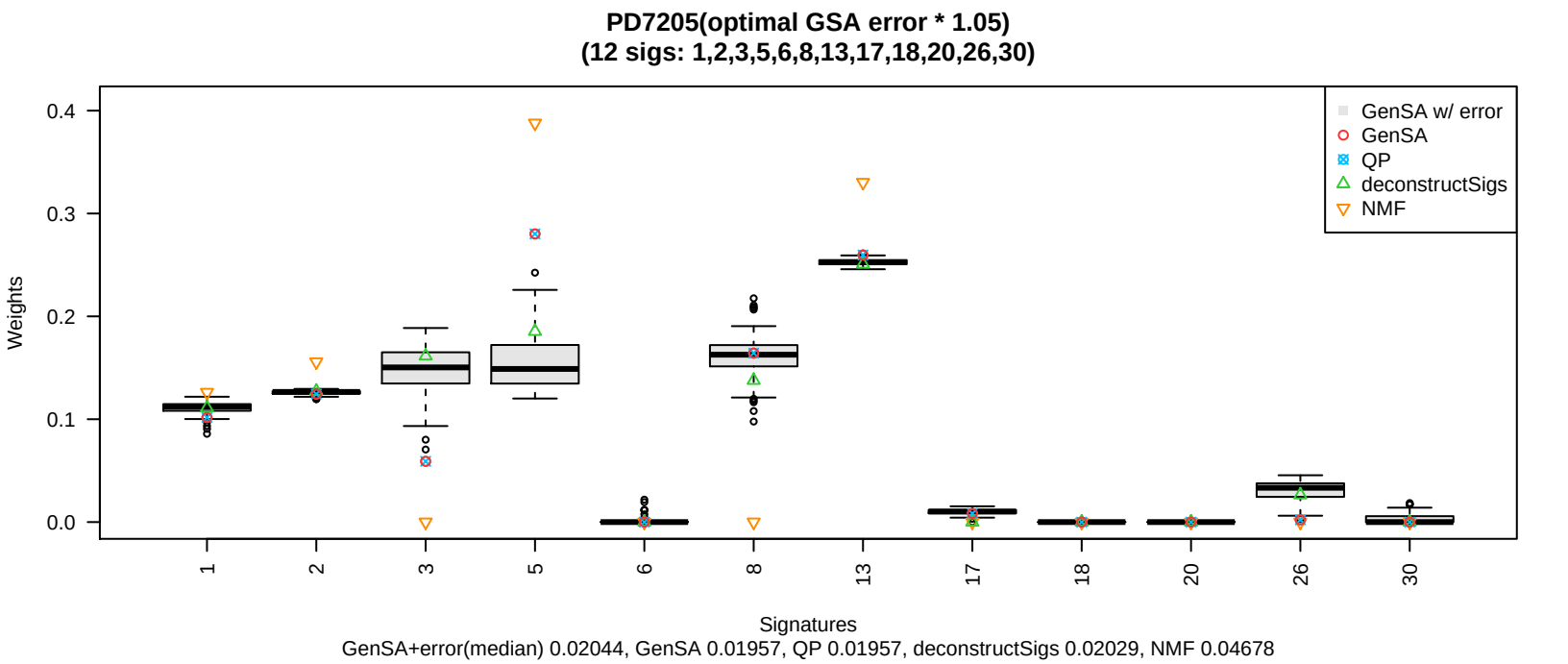

PD7201(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02665, GenSA 0.02554, QP 0.02554, deconstructSigs 0.02576, NMF 0.02853


PD7202(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02744, GenSA 0.02640, QP 0.02640, deconstructSigs 0.02648, NMF 0.03046

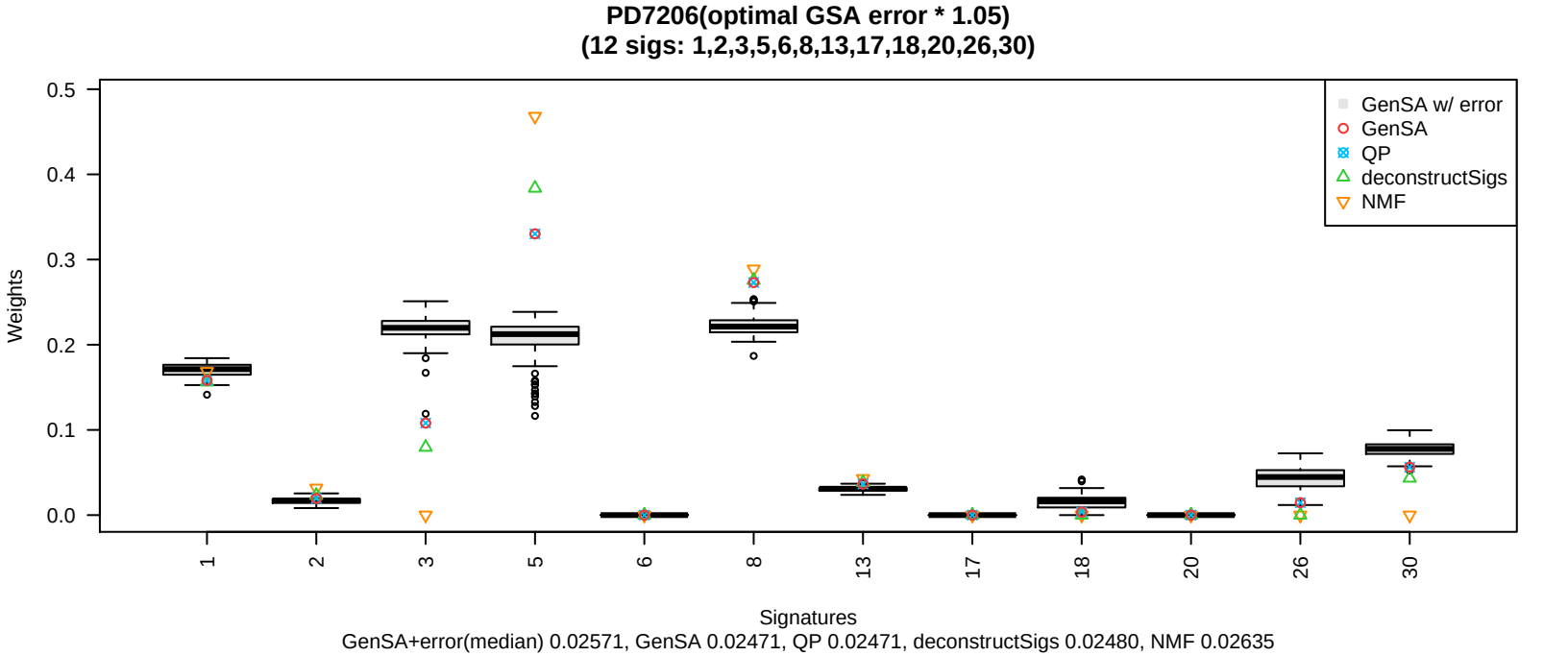

PD7203(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.00
0.05
0.10
0.15
0.20
0.25
0.30
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03481, GenSA 0.03356, QP 0.03356, deconstructSigs 0.03442, NMF 0.04106



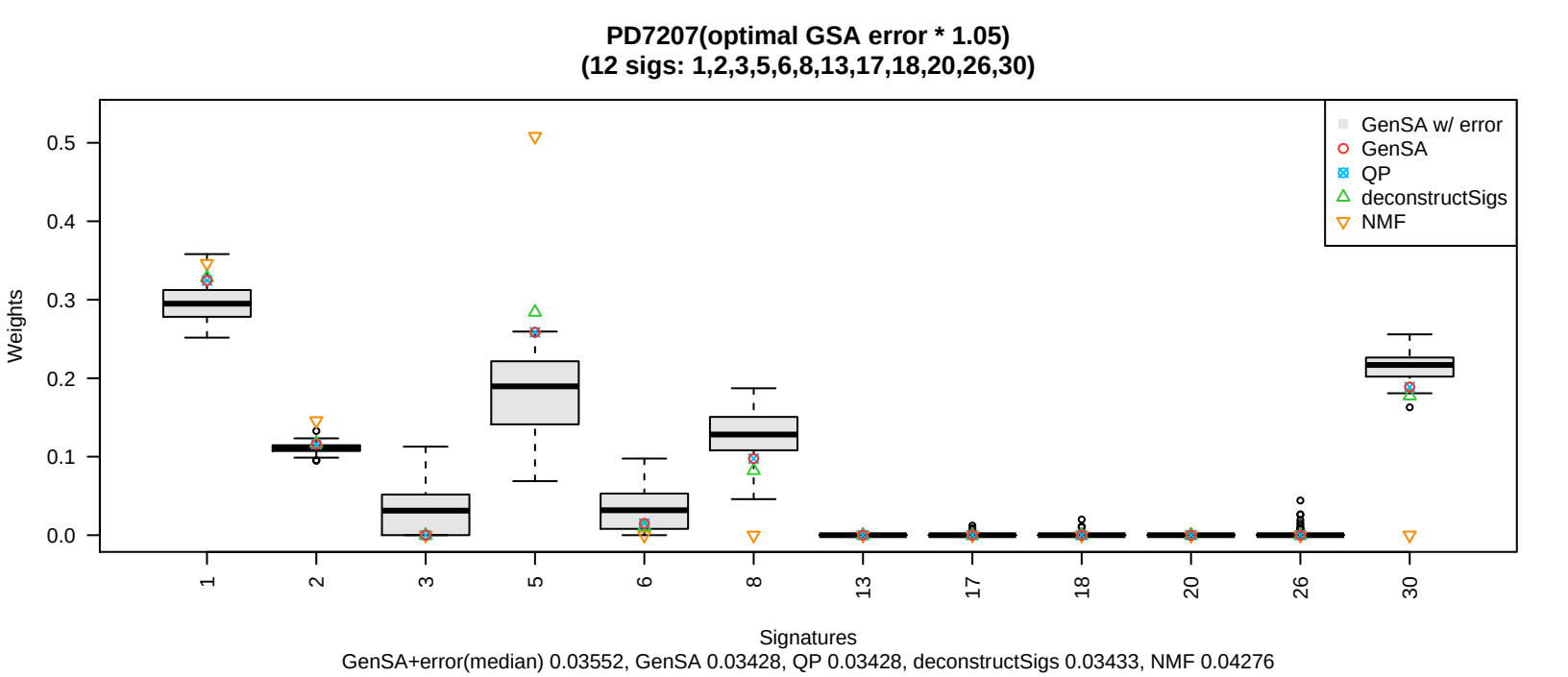
GenSA+error(median) 0.02850, GenSA 0.02736, QP 0.02736, deconstructSigs 0.02747, NMF 0.02817

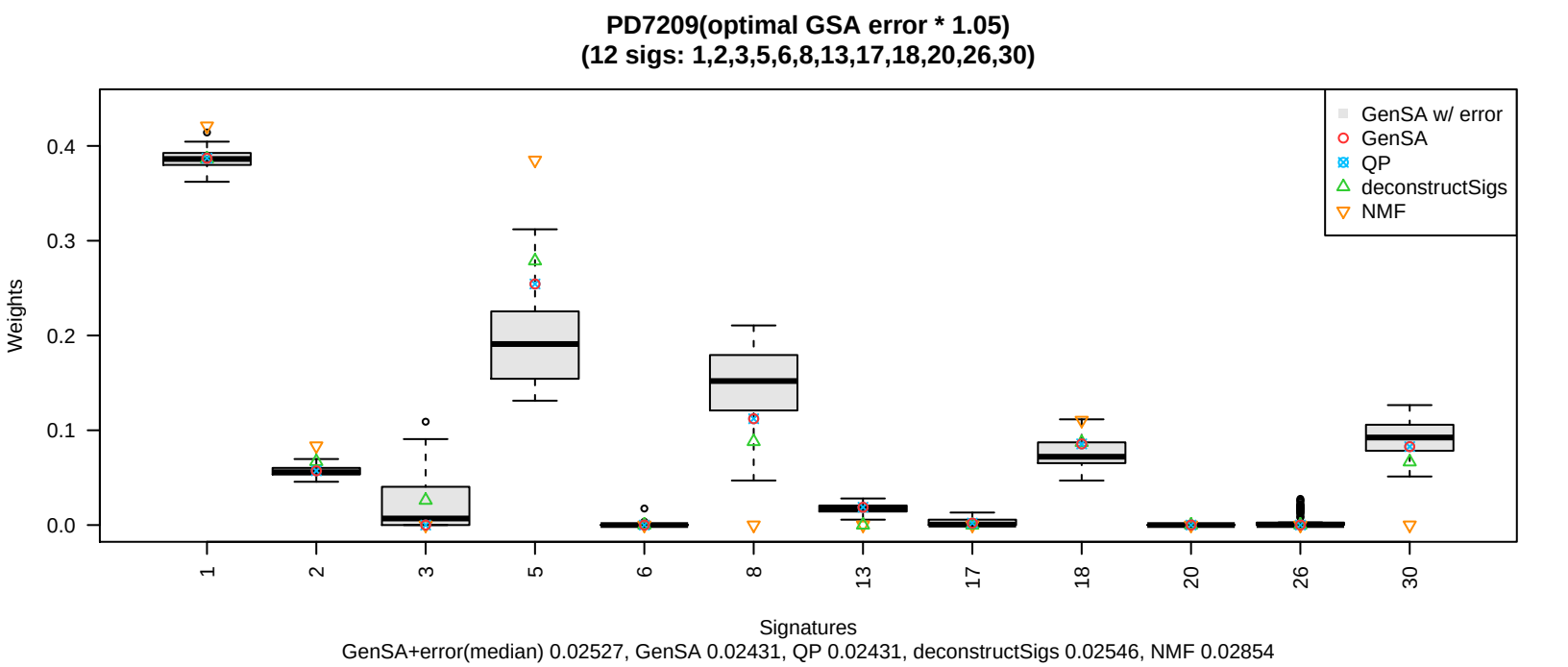


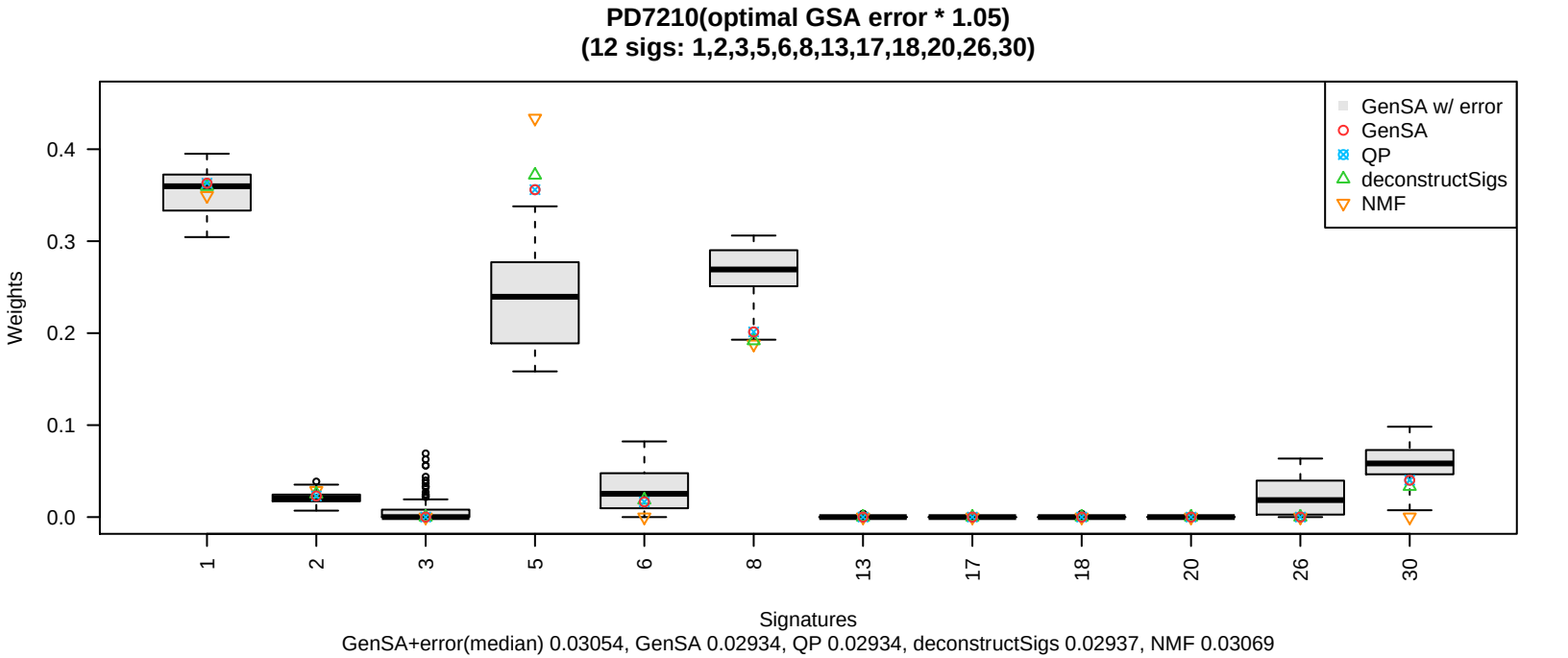
GenSA+error(median) 0.02044, GenSA 0.01957, QP 0.01957, deconstructSigs 0.02029, NMF 0.04678

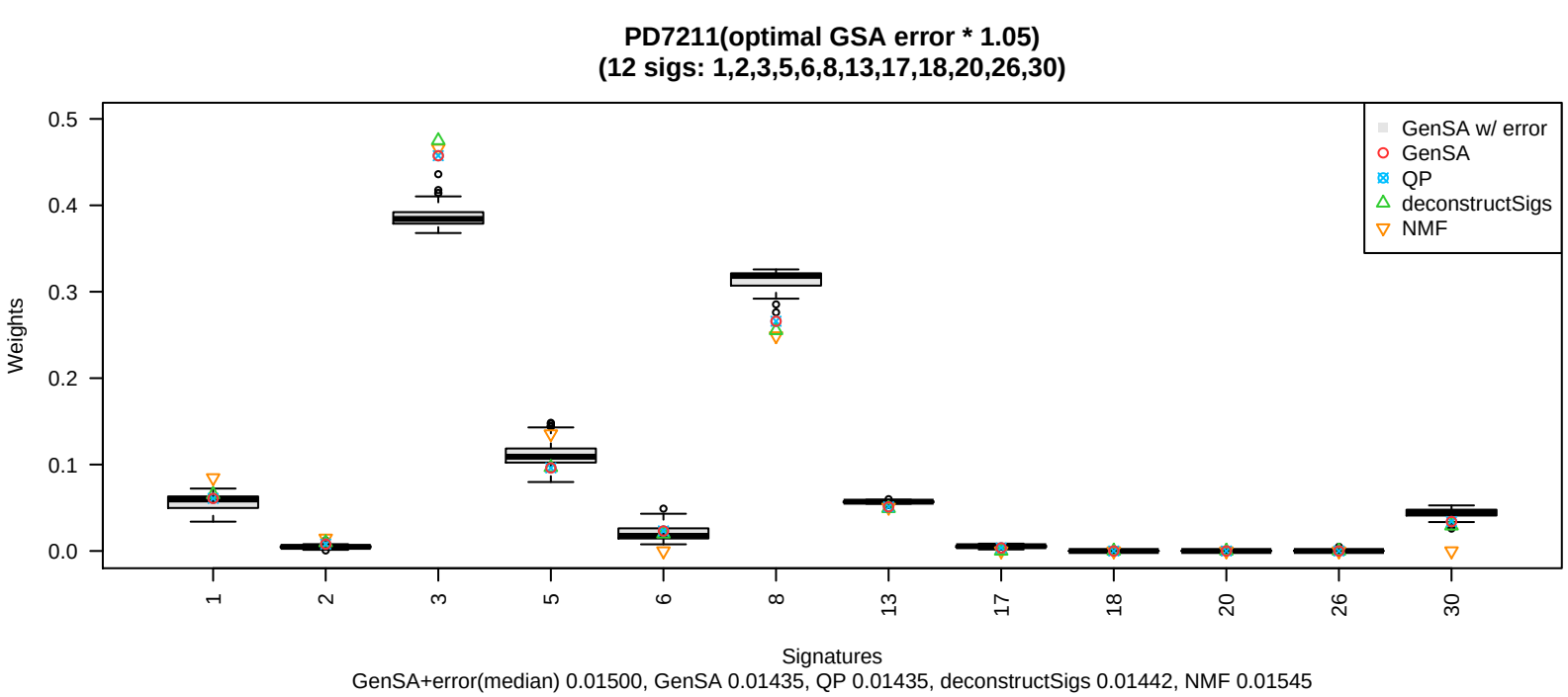


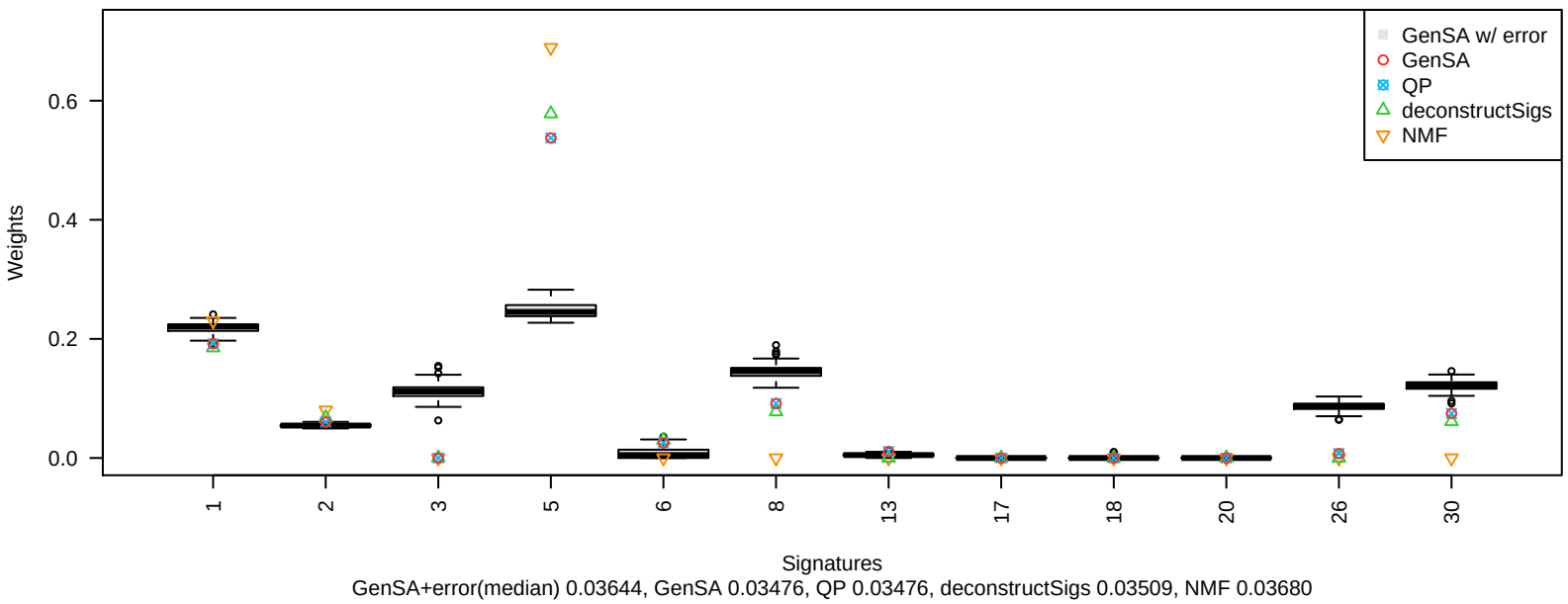
GenSA+error(median) 0.02571, GenSA 0.02471, QP 0.02471, deconstructSigs 0.02480, NMF 0.02635

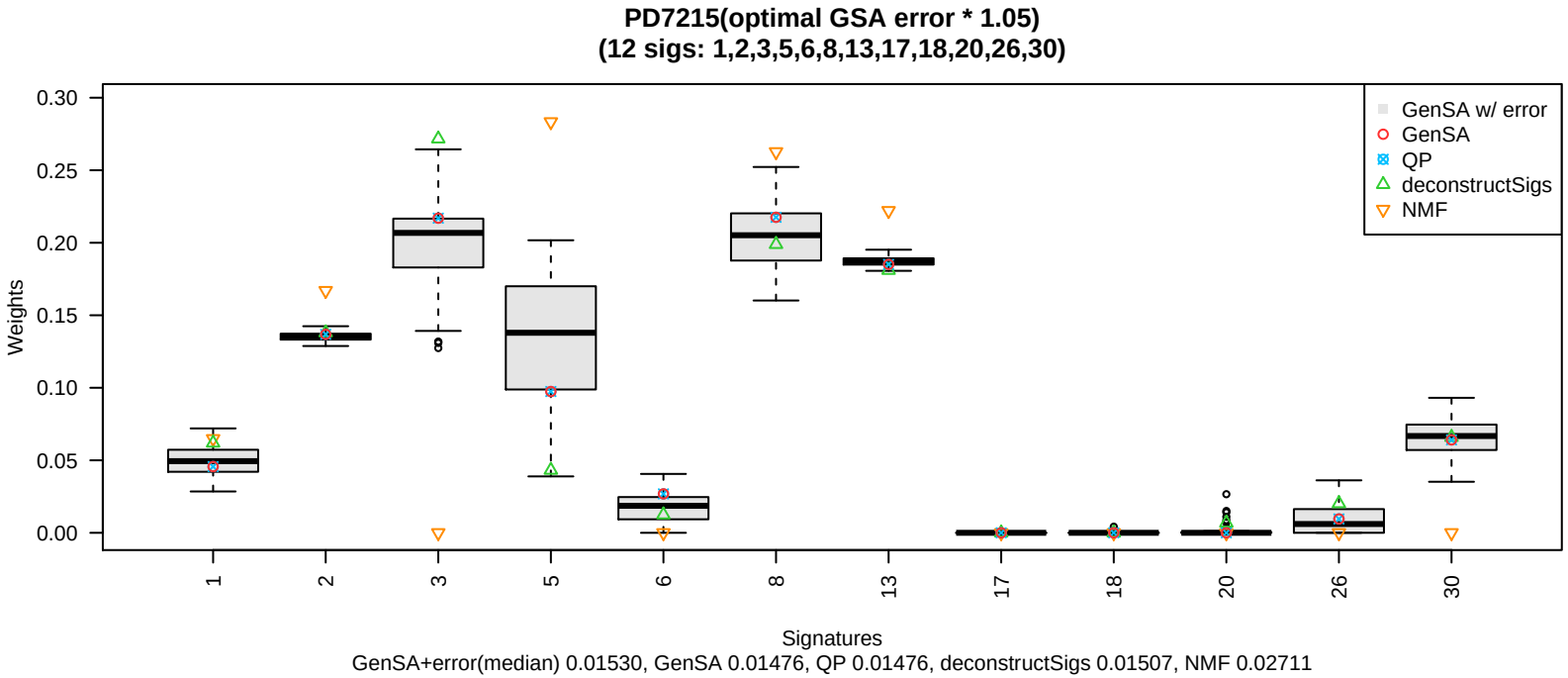

PD7207(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03552, GenSA 0.03428, QP 0.03428, deconstructSigs 0.03433, NMF 0.04276

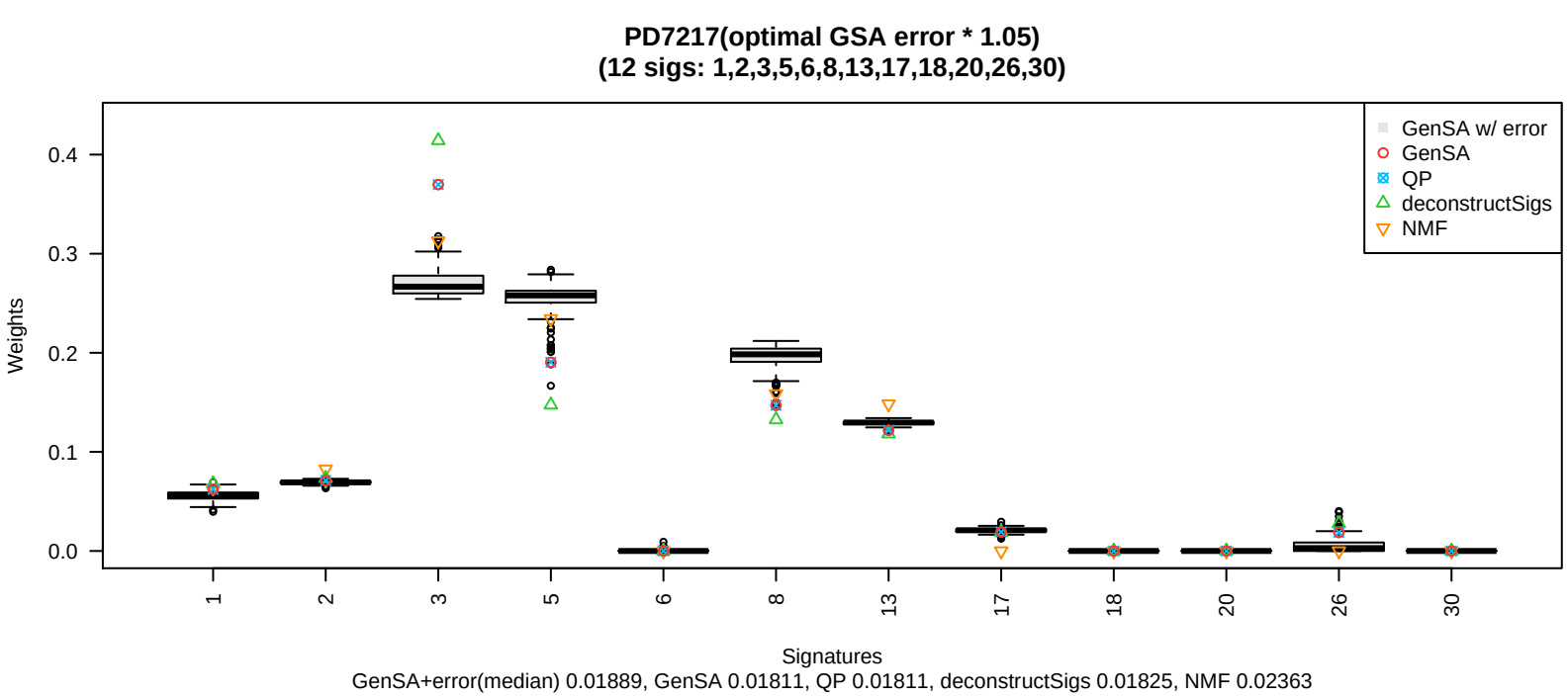

PD7209(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02527, GenSA 0.02431, QP 0.02431, deconstructSigs 0.02546, NMF 0.02854

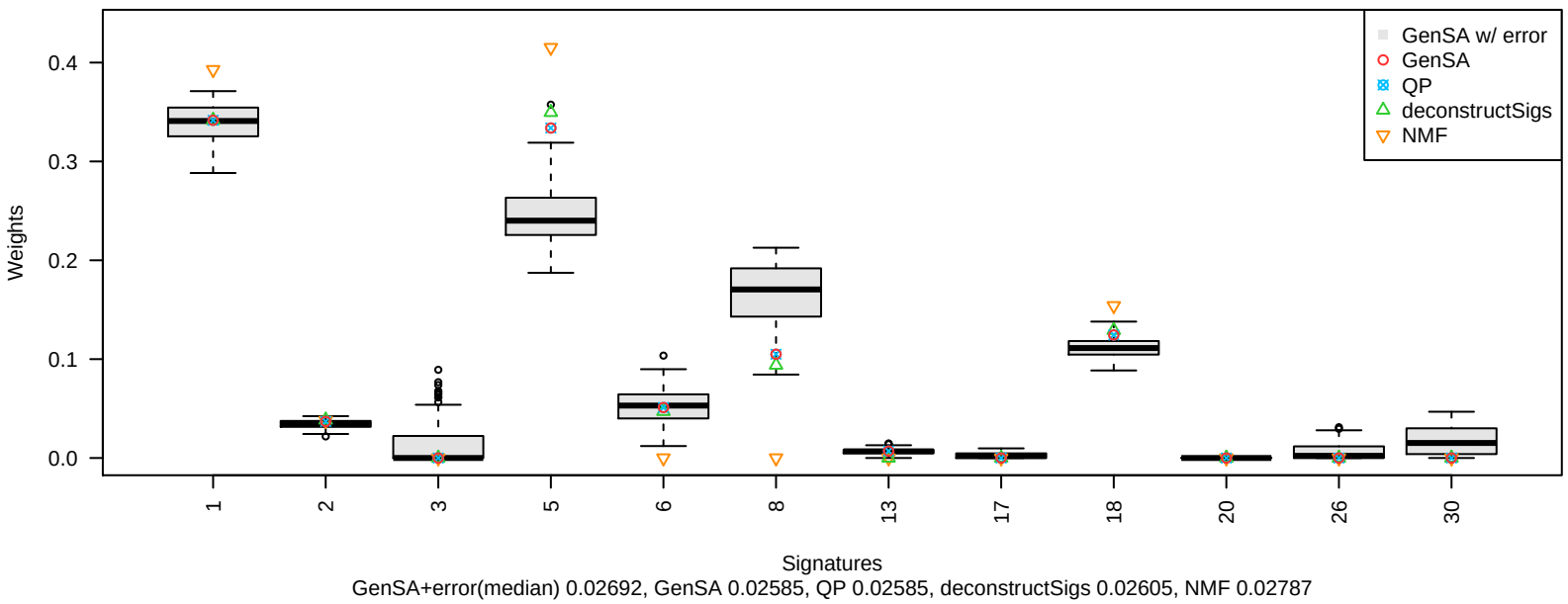

PD7210(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03054, GenSA 0.02934, QP 0.02934, deconstructSigs 0.02937, NMF 0.03069

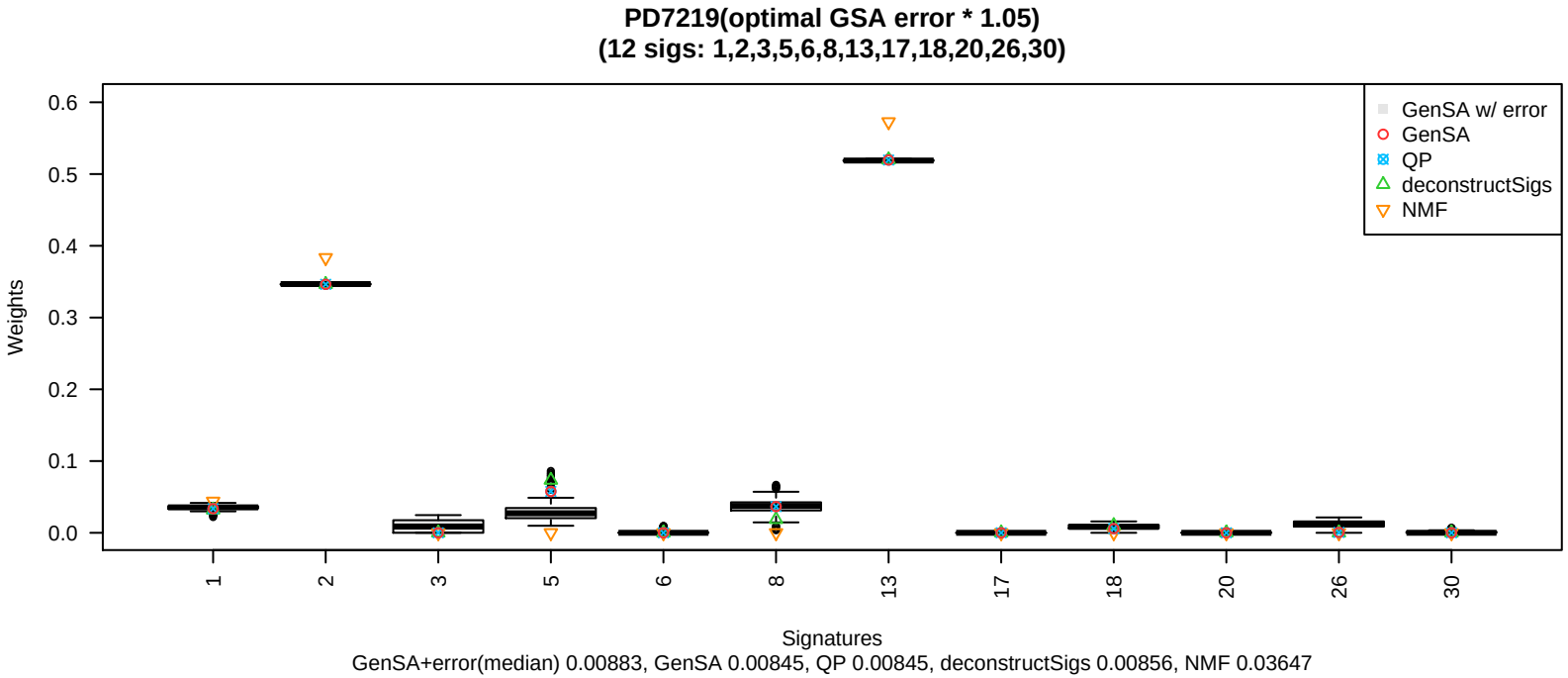

PD7211(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01500, GenSA 0.01435, QP 0.01435, deconstructSigs 0.01442, NMF 0.01545

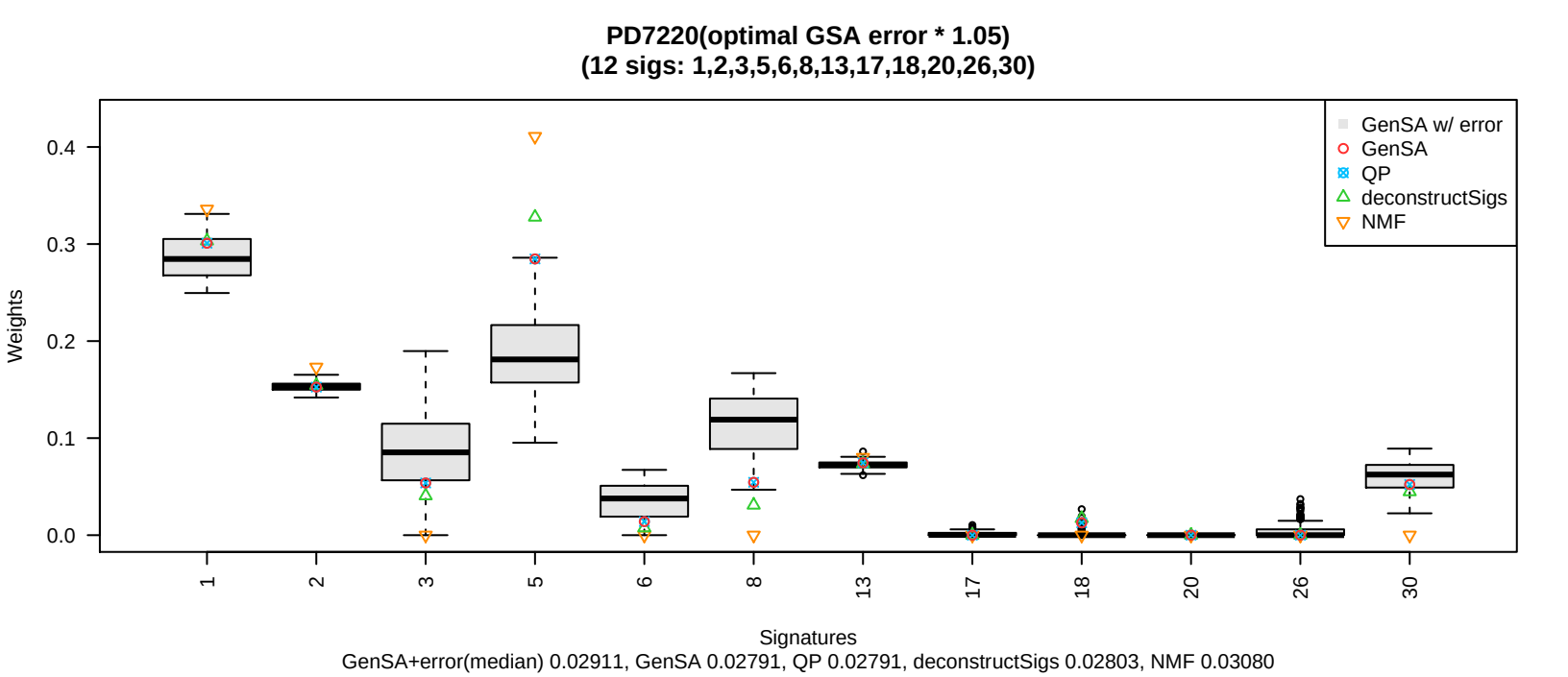

PD7214(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.2
0.4
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03644, GenSA 0.03476, QP 0.03476, deconstructSigs 0.03509, NMF 0.03680

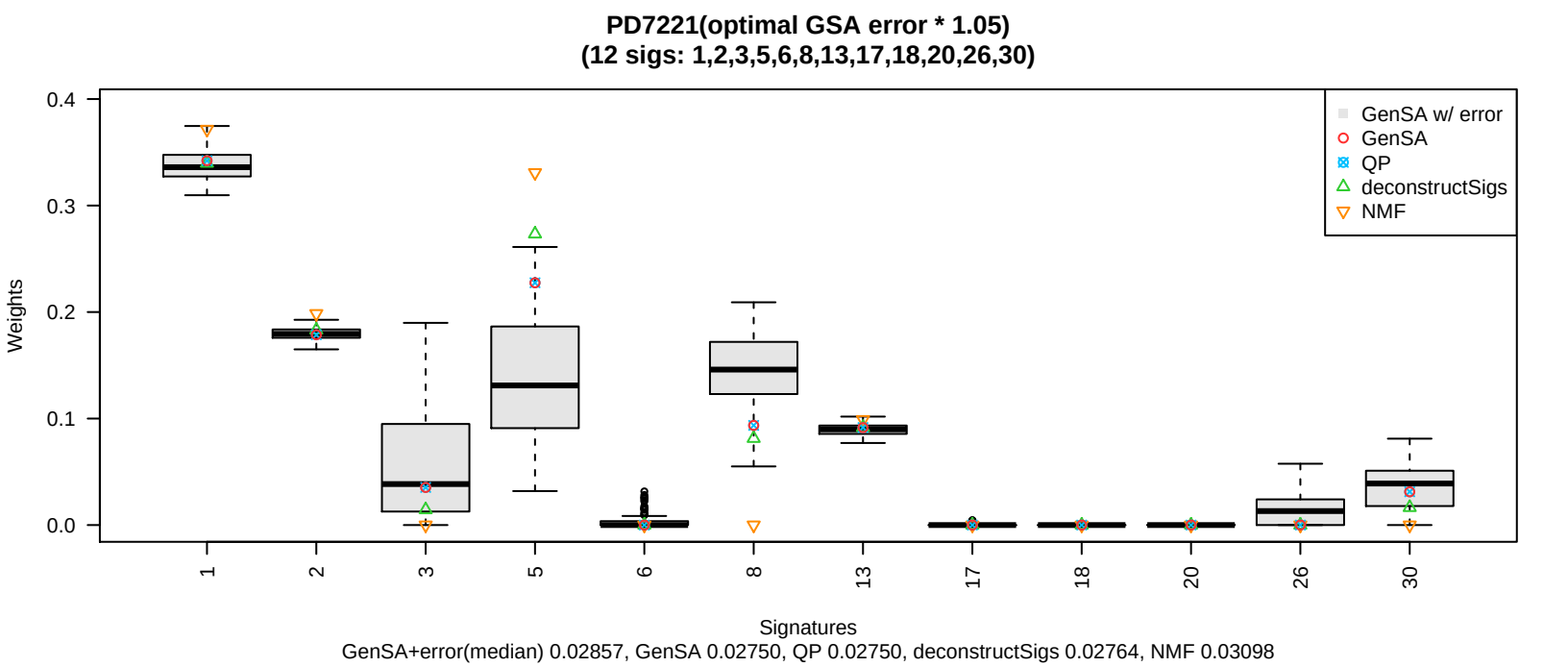

PD7215(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.00
0.05
0.10
0.15
0.20
0.25
0.30
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01530, GenSA 0.01476, QP 0.01476, deconstructSigs 0.01507, NMF 0.02711

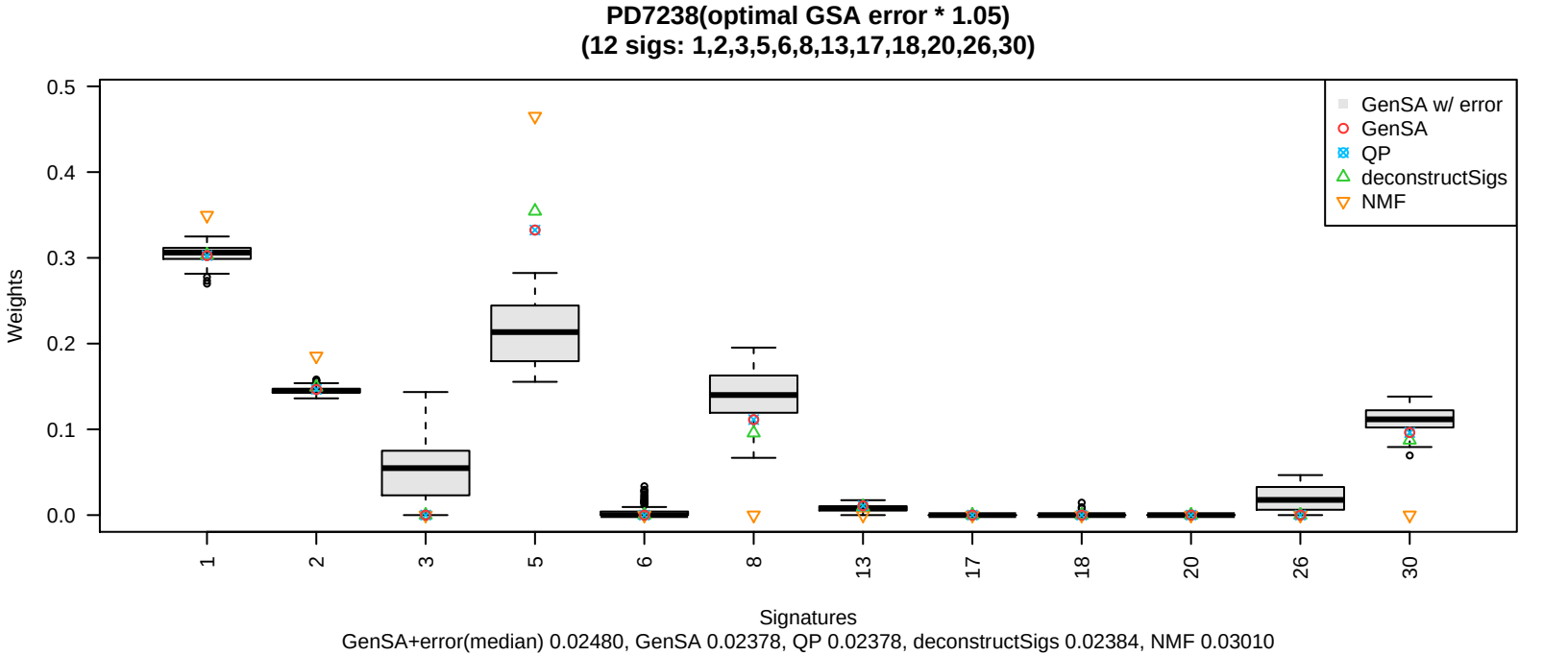

PD7217(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01889, GenSA 0.01811, QP 0.01811, deconstructSigs 0.01825, NMF 0.02363

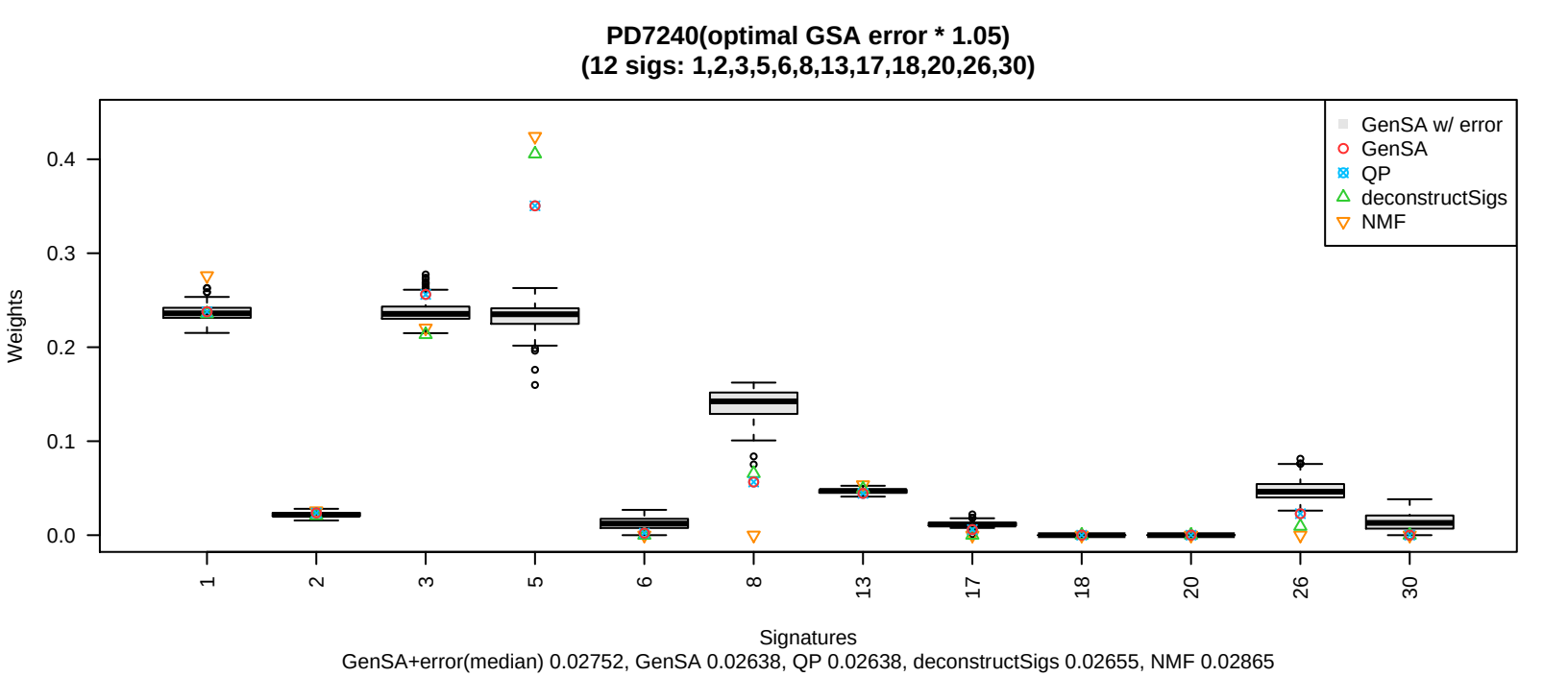

PD7218(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02692, GenSA 0.02585, QP 0.02585, deconstructSigs 0.02605, NMF 0.02787


PD7219(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.00883, GenSA 0.00845, QP 0.00845, deconstructSigs 0.00856, NMF 0.03647

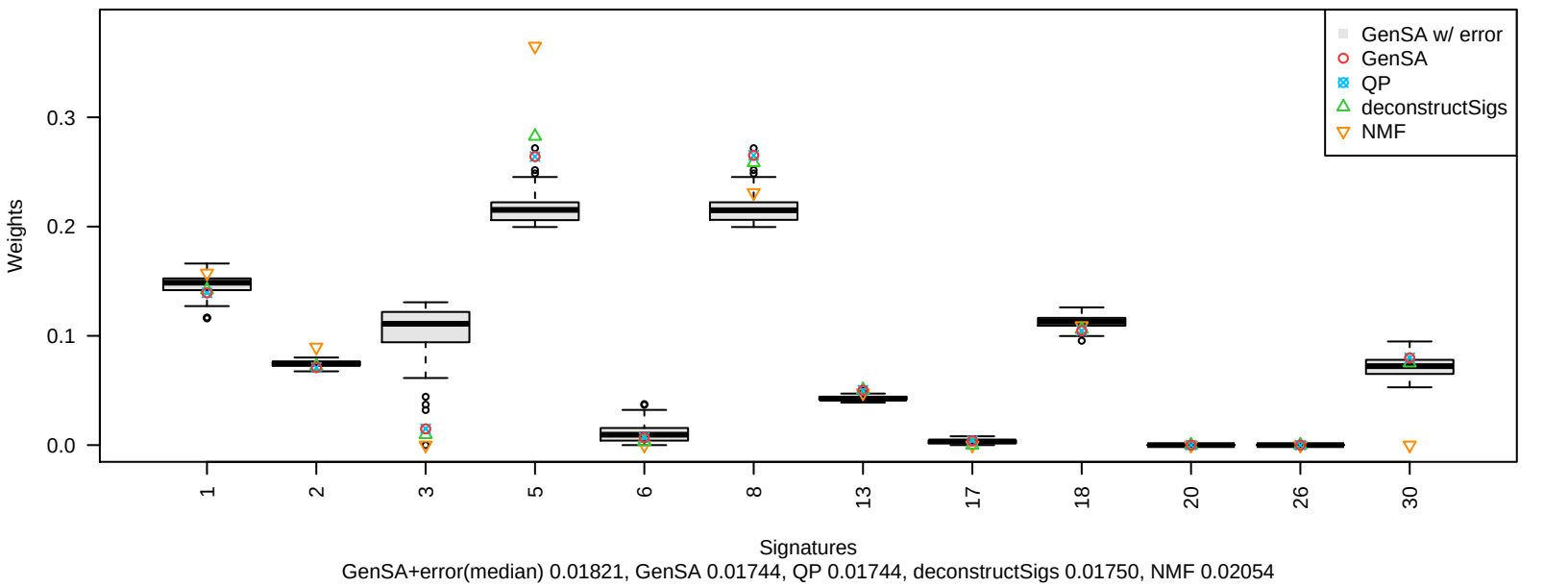

PD7220(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02911, GenSA 0.02791, QP 0.02791, deconstructSigs 0.02803, NMF 0.03080


PD7221(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02857, GenSA 0.02750, QP 0.02750, deconstructSigs 0.02764, NMF 0.03098

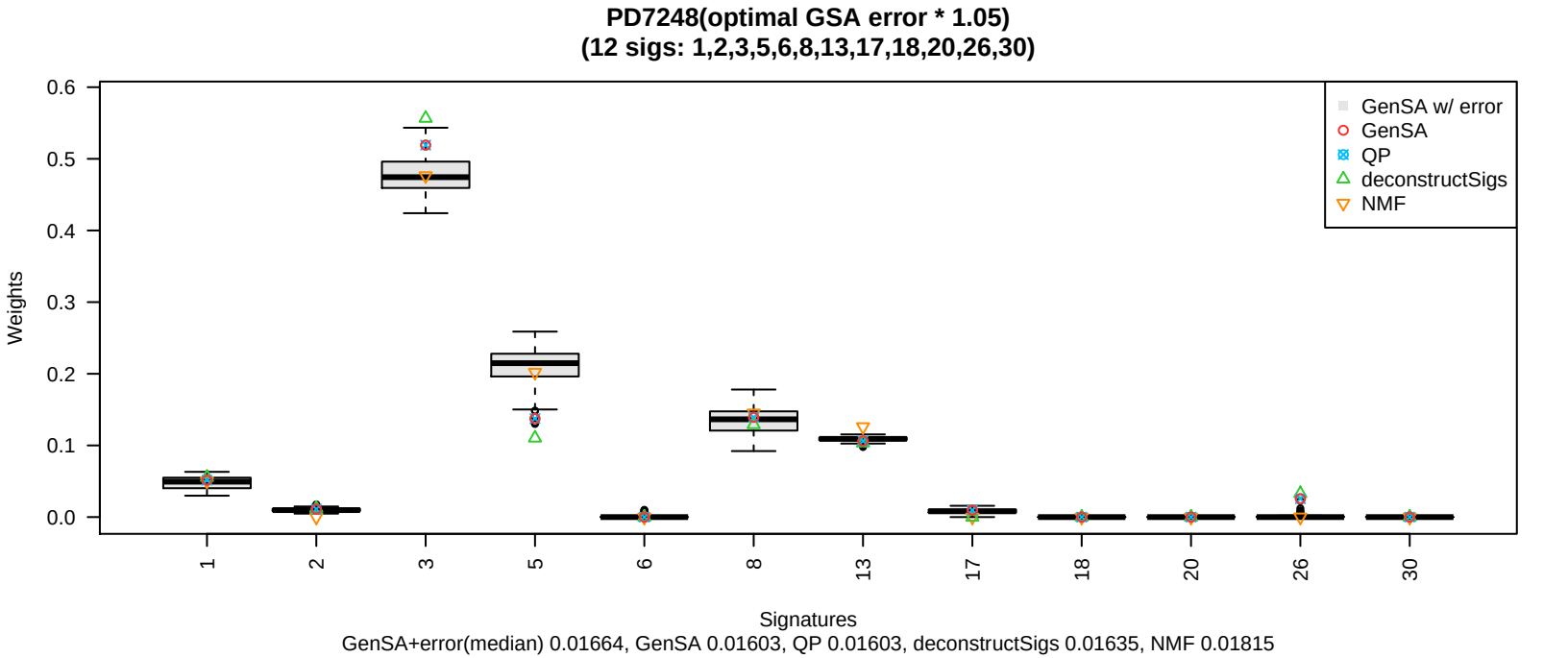

PD7238(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02480, GenSA 0.02378, QP 0.02378, deconstructSigs 0.02384, NMF 0.03010



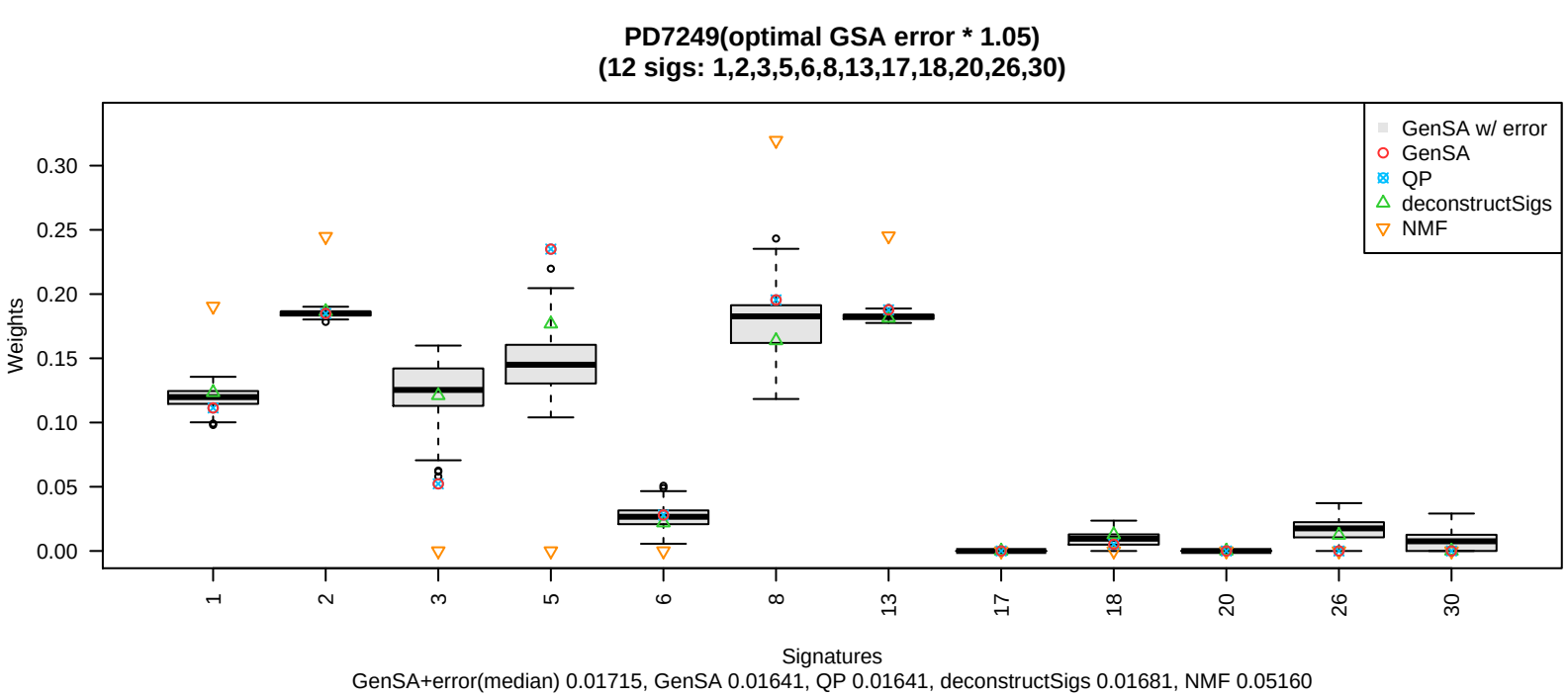
GenSA+error(median) 0.02752, GenSA 0.02638, QP 0.02638, deconstructSigs 0.02655, NMF 0.02865



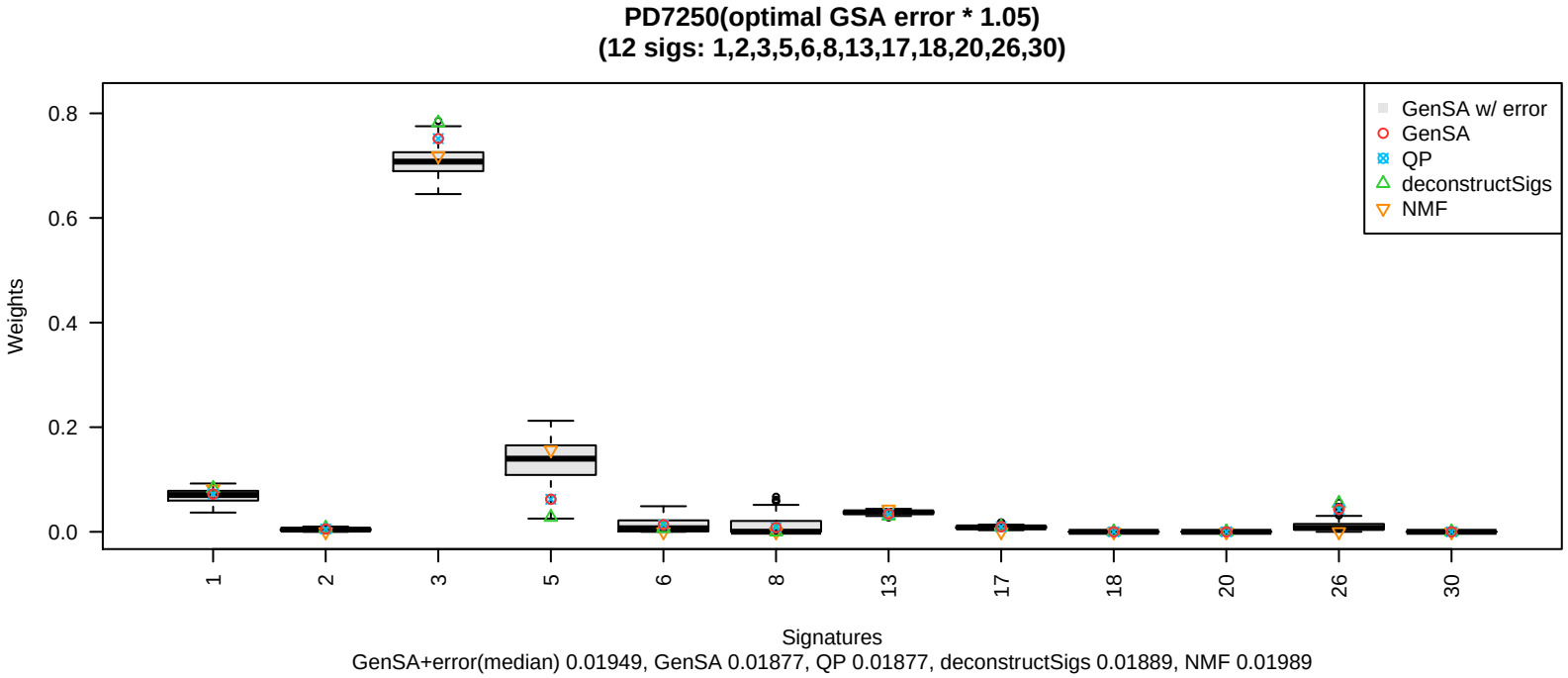
GenSA+error(median) 0.01821, GenSA 0.01744, QP 0.01744, deconstructSigs 0.01750, NMF 0.02054



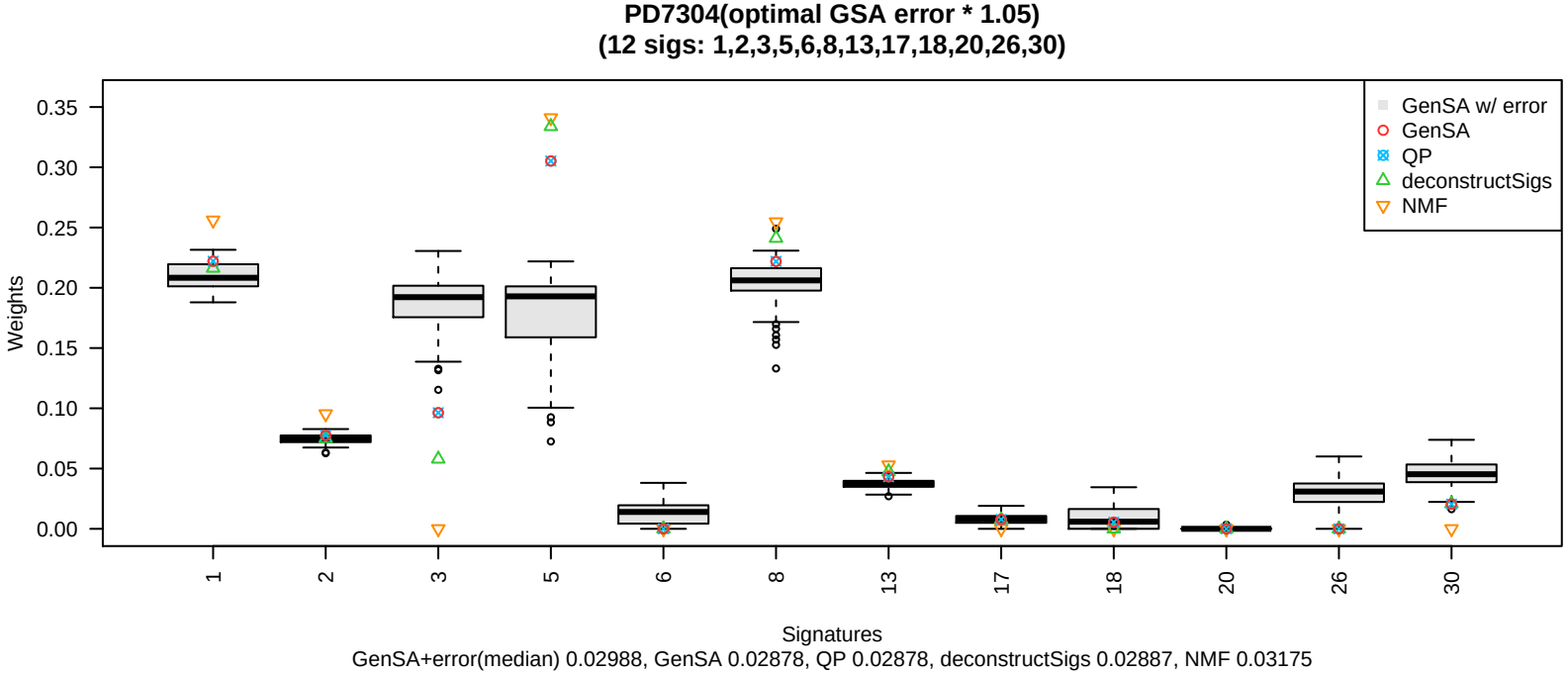
GenSA+error(median) 0.01664, GenSA 0.01603, QP 0.01603, deconstructSigs 0.01635, NMF 0.01815



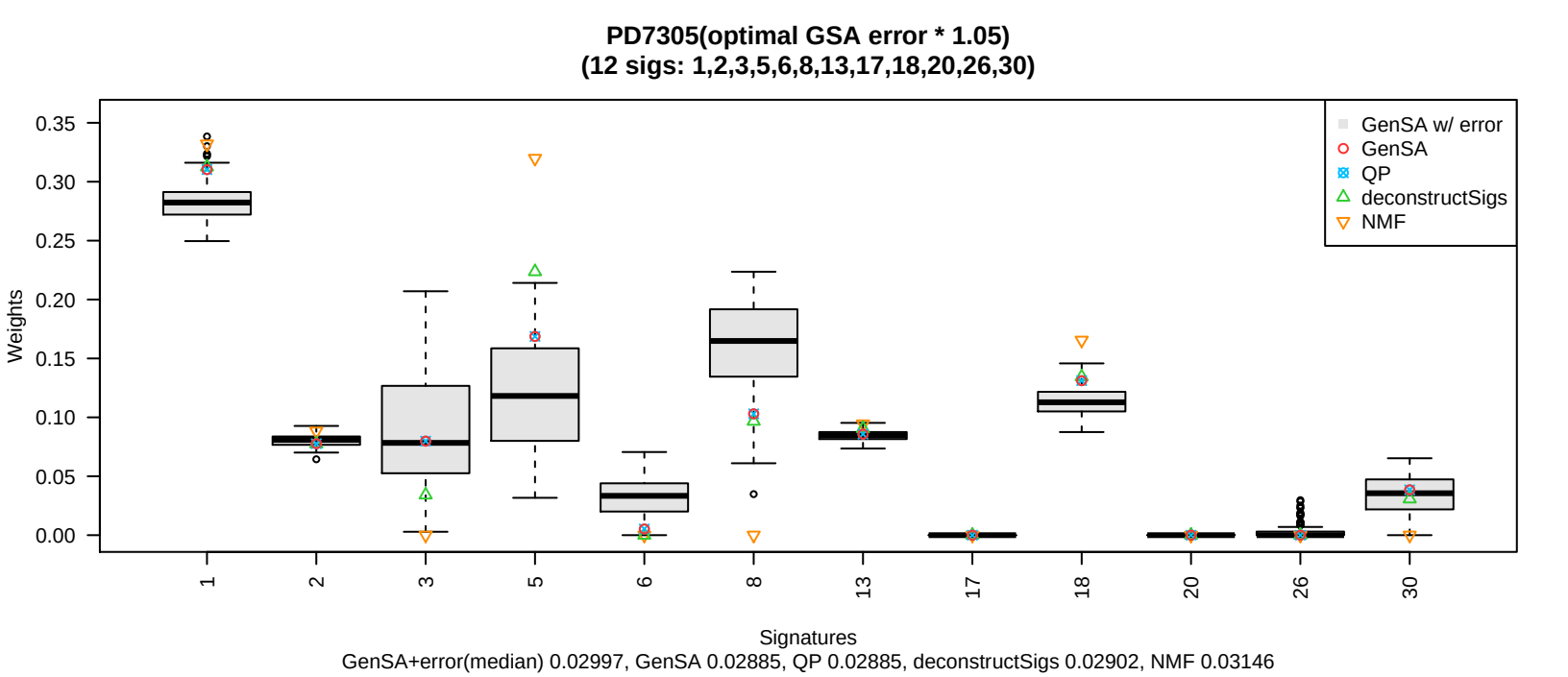
GenSA+error(median) 0.01715, GenSA 0.01641, QP 0.01641, deconstructSigs 0.01681, NMF 0.05160



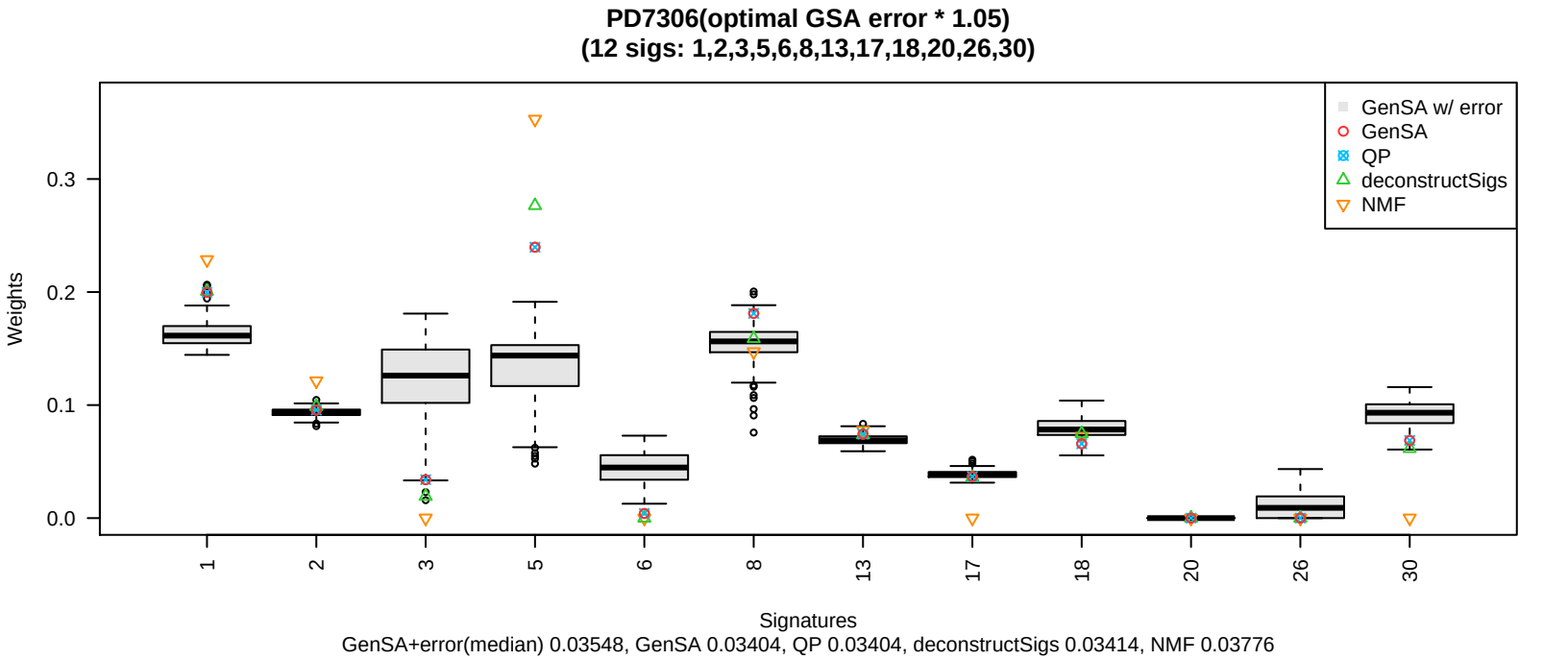
GenSA+error(median) 0.01949, GenSA 0.01877, QP 0.01877, deconstructSigs 0.01889, NMF 0.01989



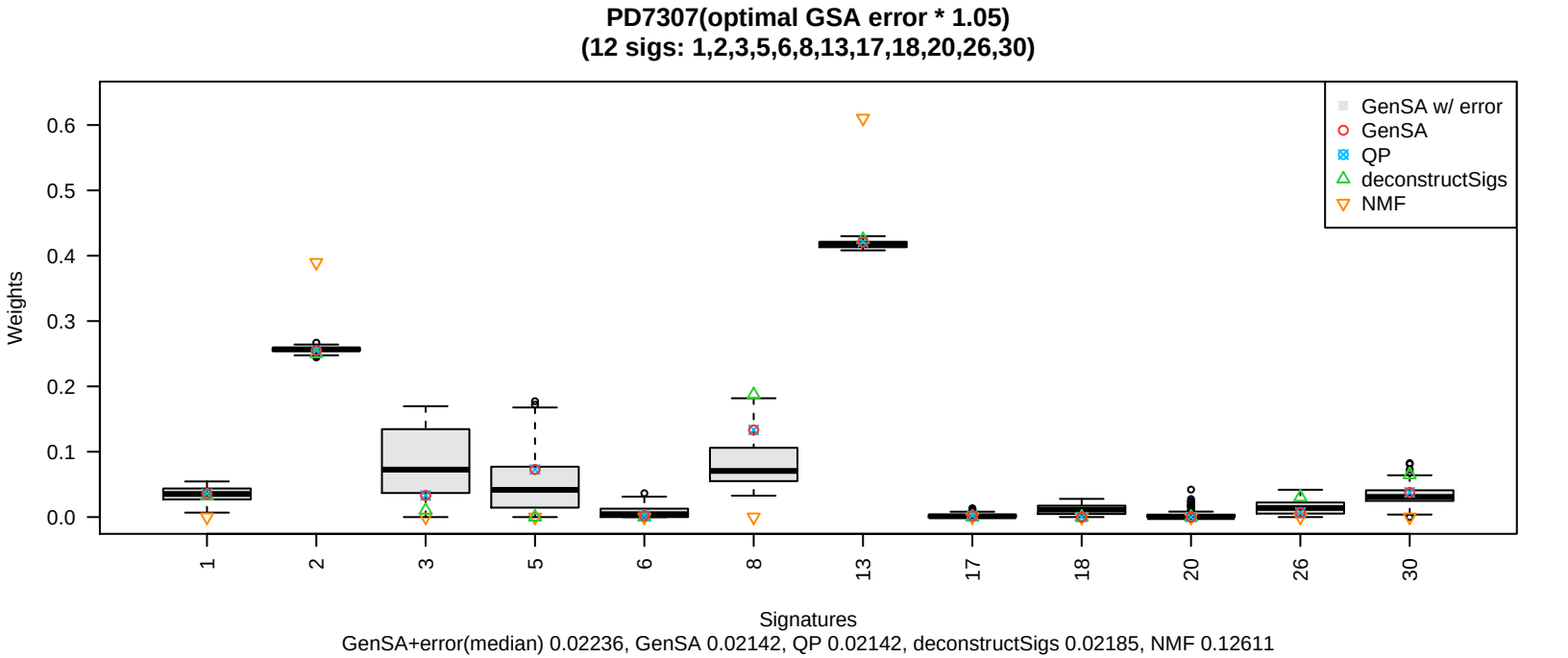
GenSA+error(median) 0.02988, GenSA 0.02878, QP 0.02878, deconstructSigs 0.02887, NMF 0.03175



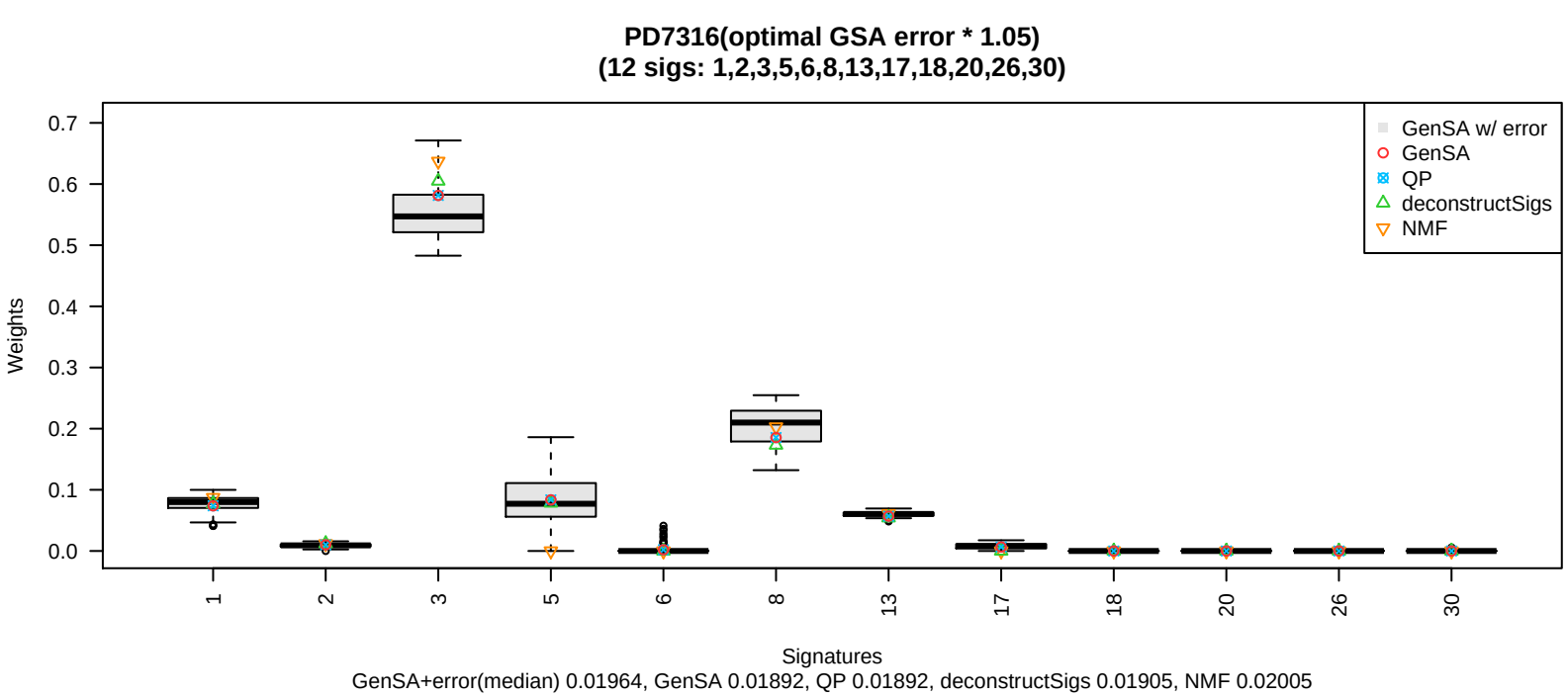
GenSA+error(median) 0.02997, GenSA 0.02885, QP 0.02885, deconstructSigs 0.02902, NMF 0.03146

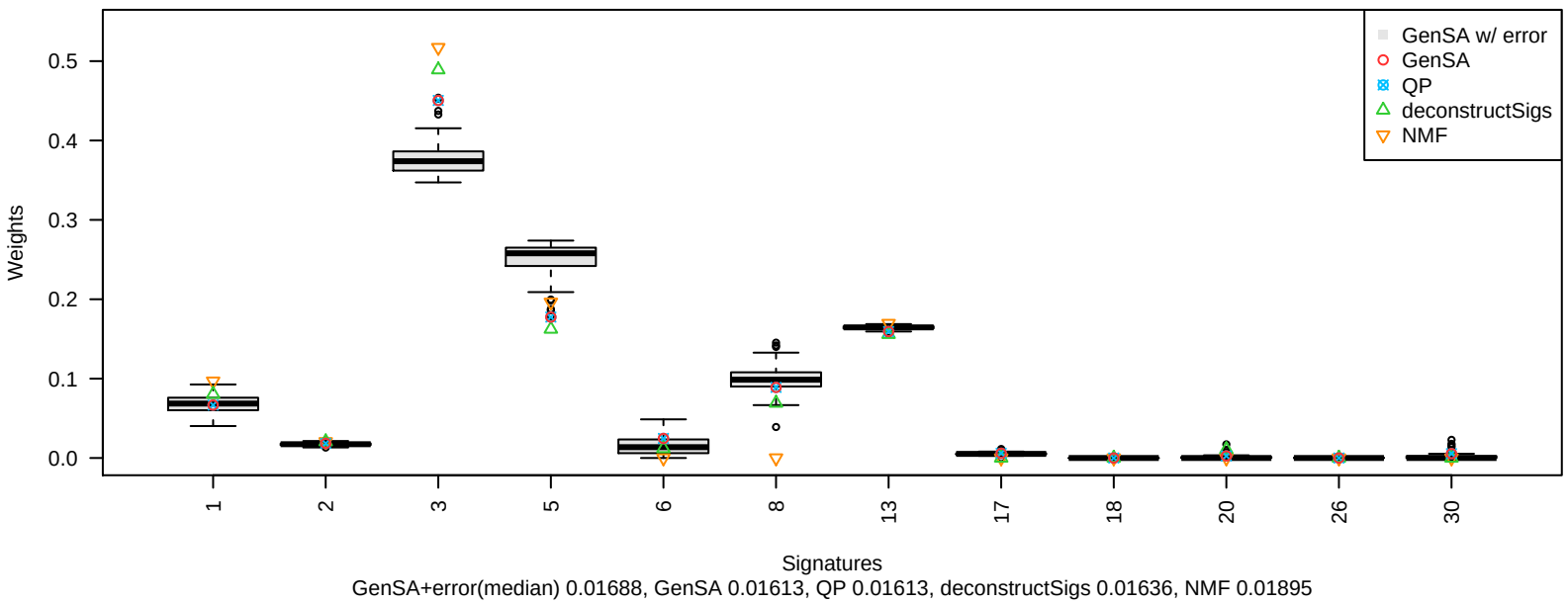


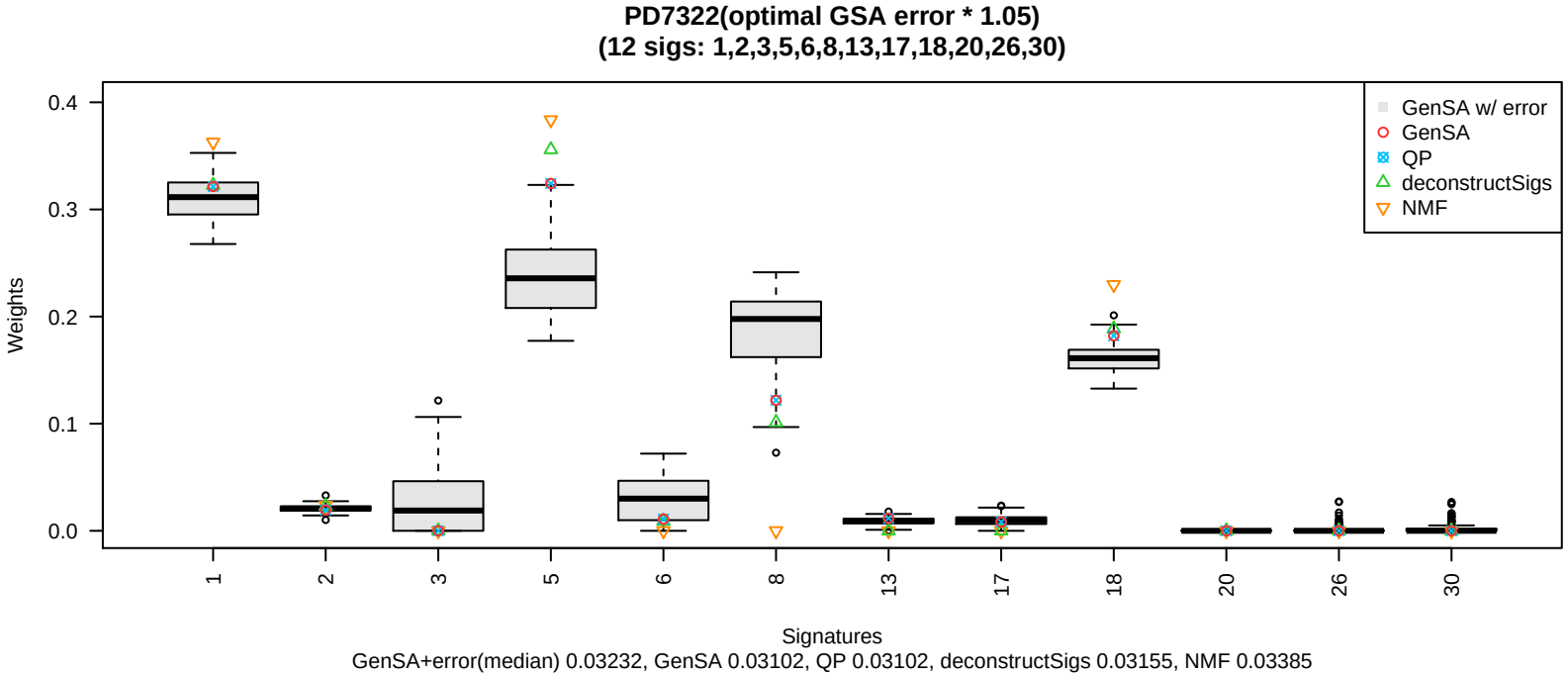
GenSA+error(median) 0.03548, GenSA 0.03404, QP 0.03404, deconstructSigs 0.03414, NMF 0.03776

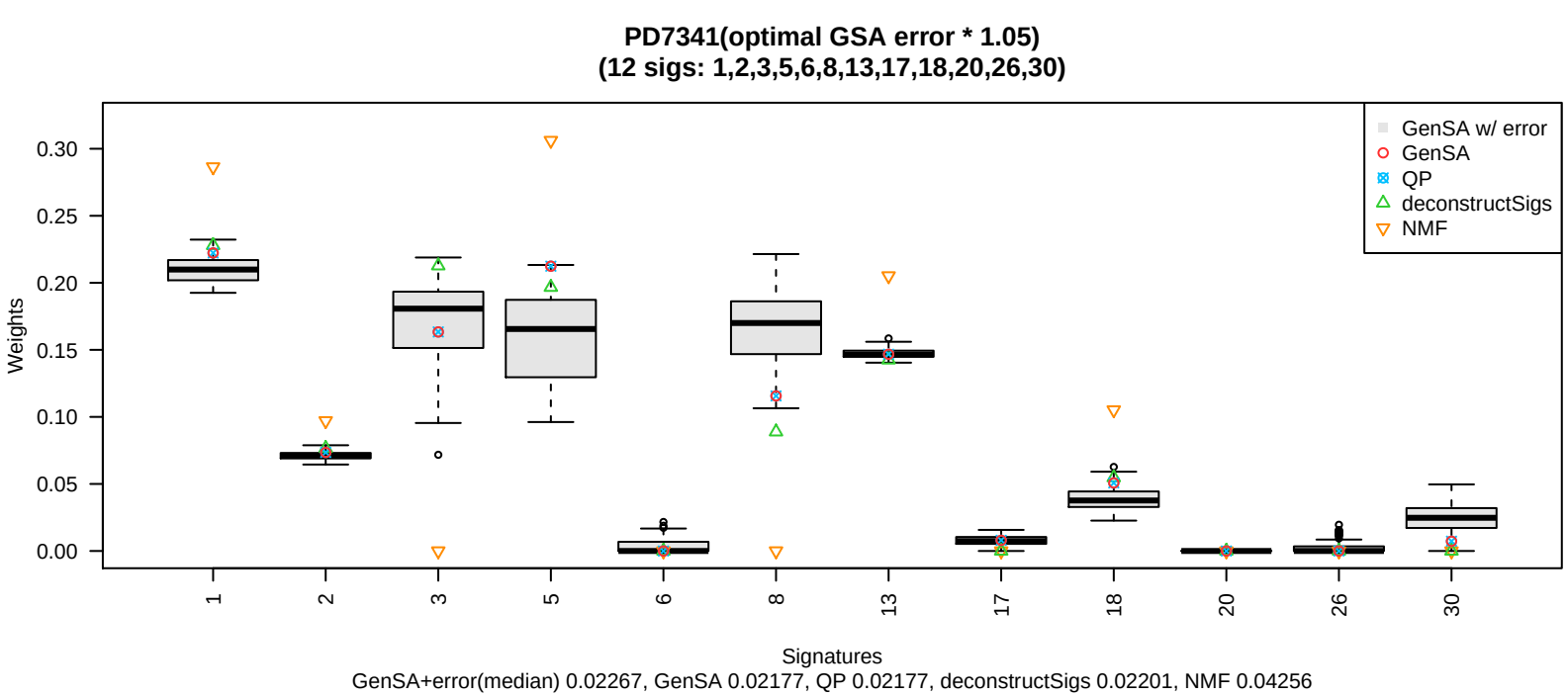


GenSA+error(median) 0.02236, GenSA 0.02142, QP 0.02142, deconstructSigs 0.02185, NMF 0.12611

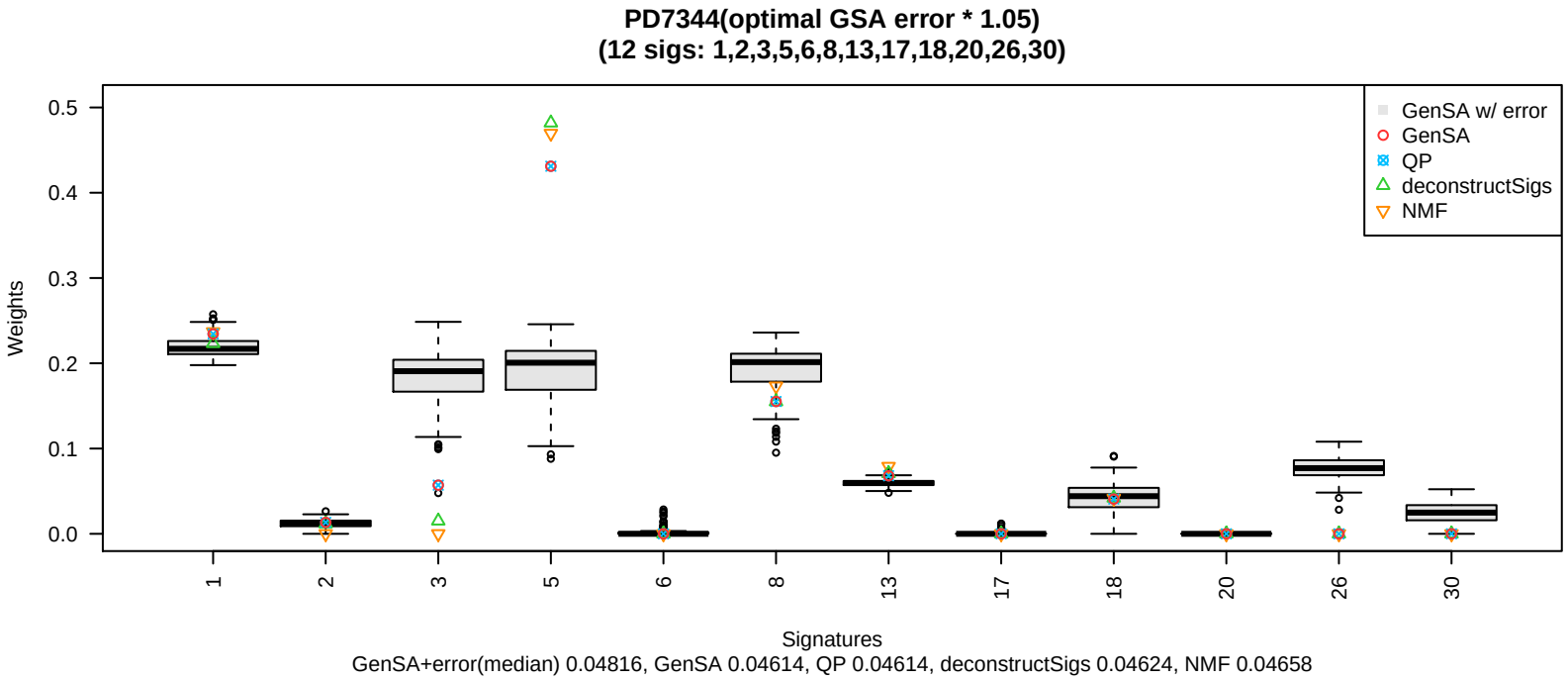

PD7316(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01964, GenSA 0.01892, QP 0.01892, deconstructSigs 0.01905, NMF 0.02005


PD7321(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01688, GenSA 0.01613, QP 0.01613, deconstructSigs 0.01636, NMF 0.01895

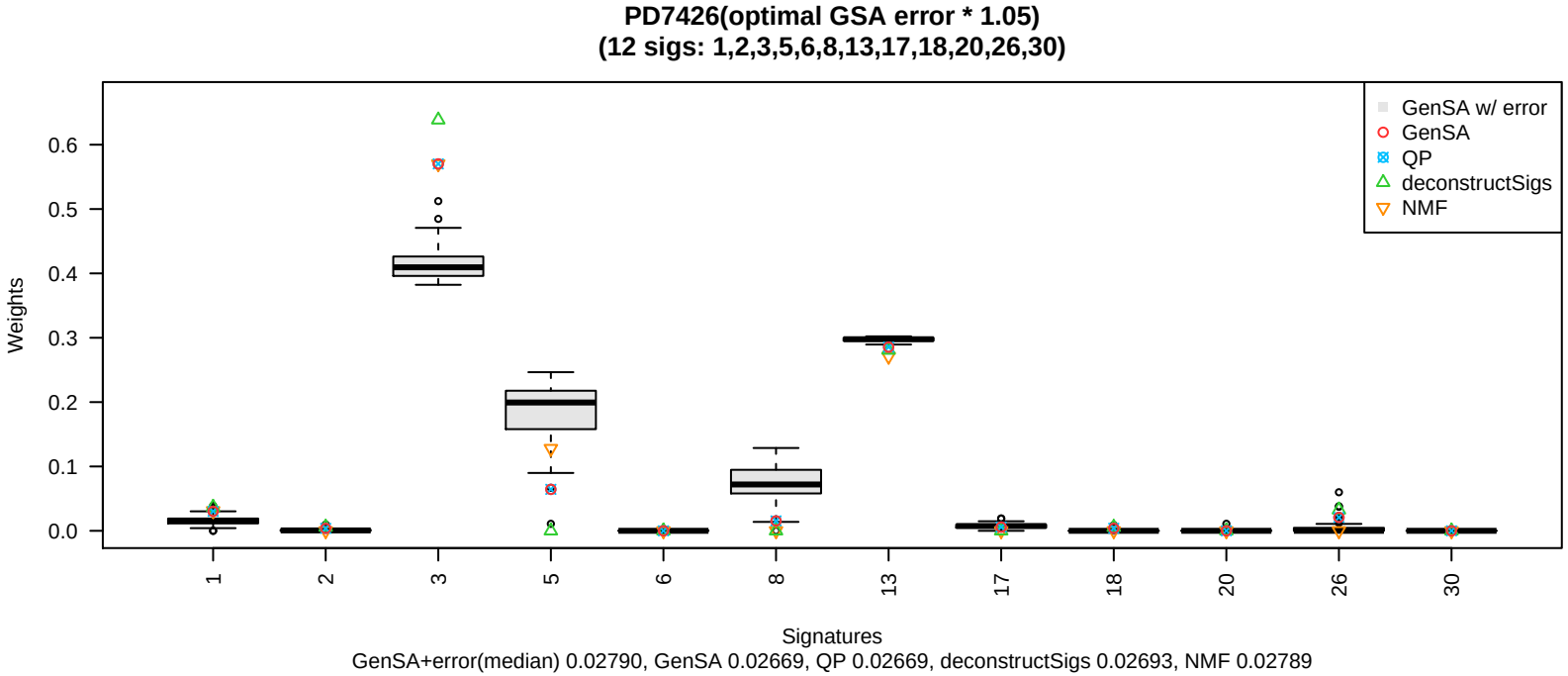

PD7322(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03232, GenSA 0.03102, QP 0.03102, deconstructSigs 0.03155, NMF 0.03385



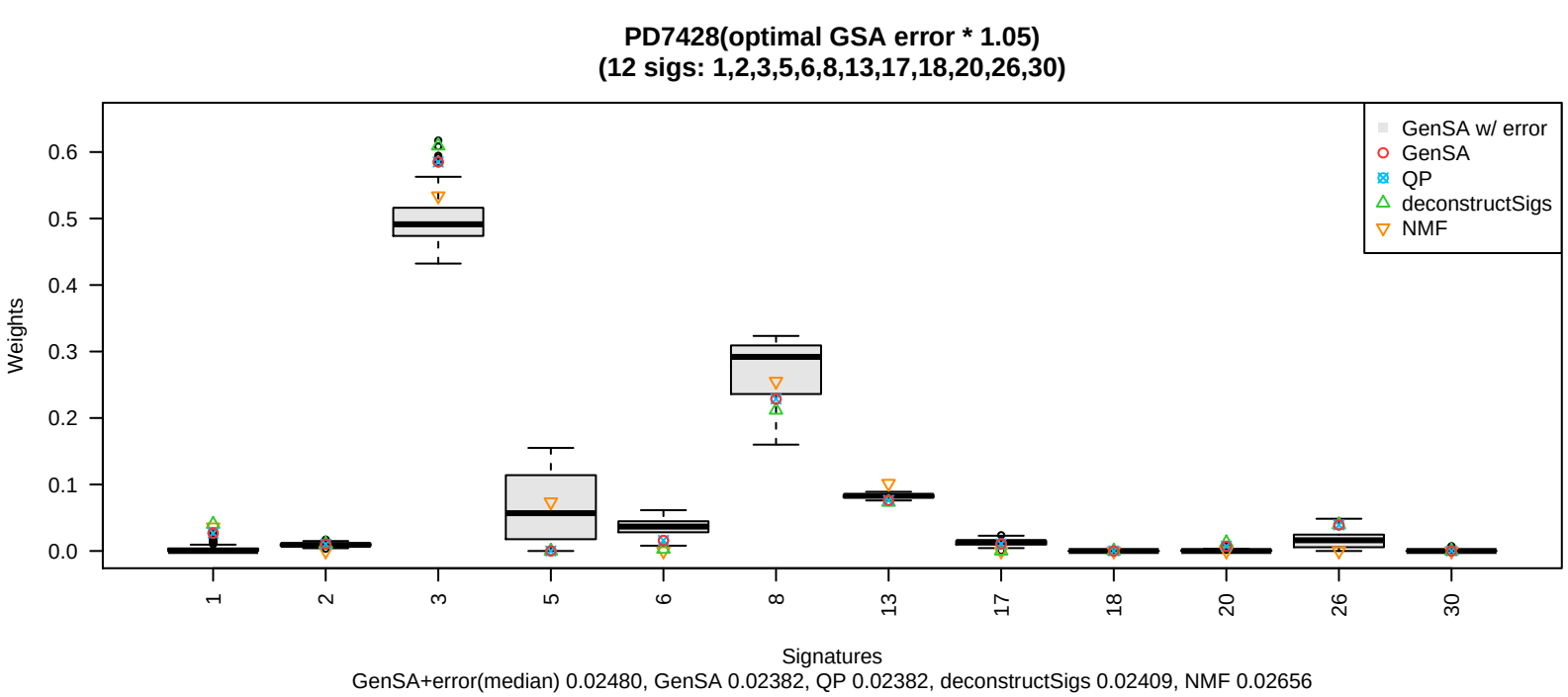
GenSA+error(median) 0.02267, GenSA 0.02177, QP 0.02177, deconstructSigs 0.02201, NMF 0.04256



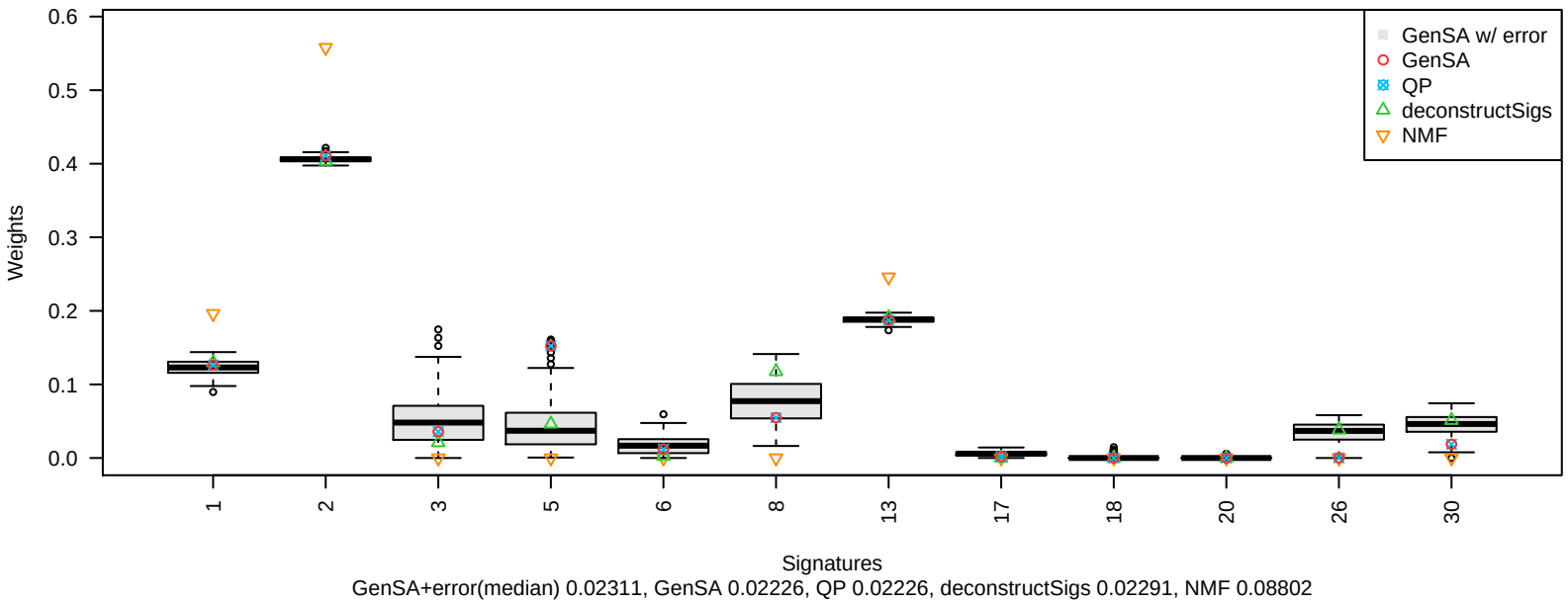
GenSA+error(median) 0.04816, GenSA 0.04614, QP 0.04614, deconstructSigs 0.04624, NMF 0.04658



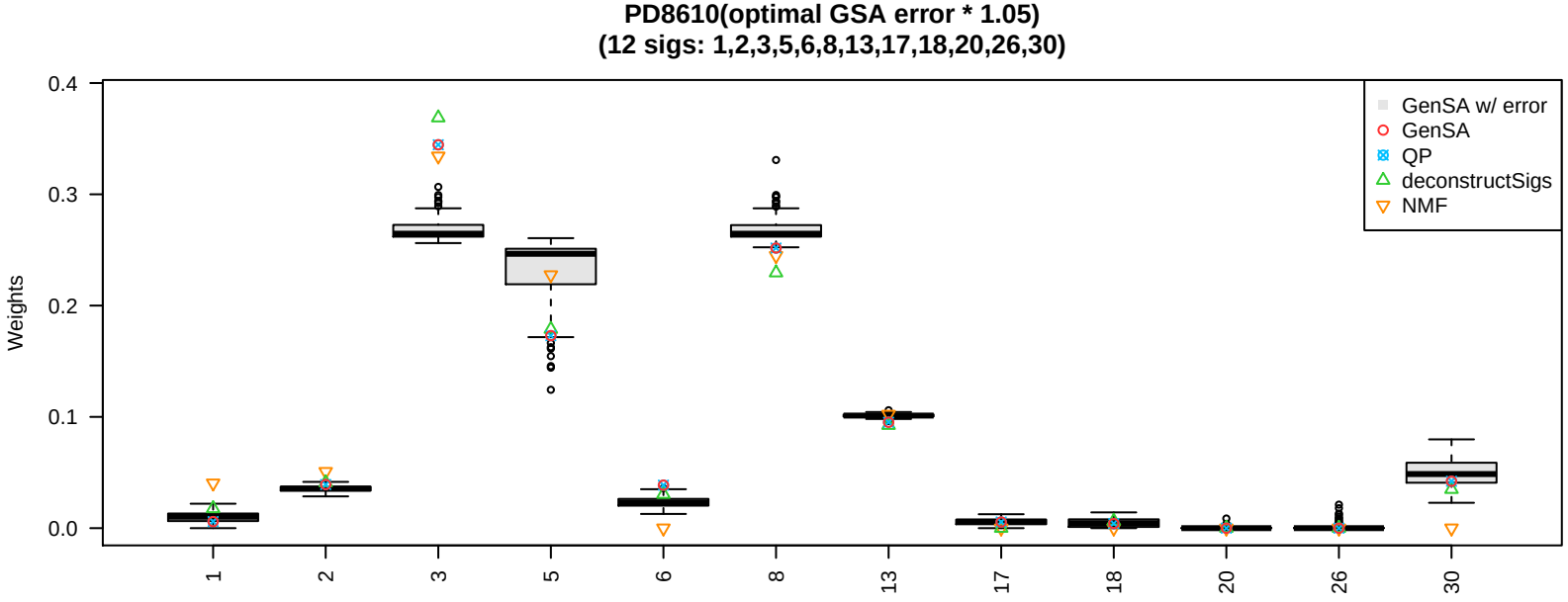
GenSA+error(median) 0.02790, GenSA 0.02669, QP 0.02669, deconstructSigs 0.02693, NMF 0.02789



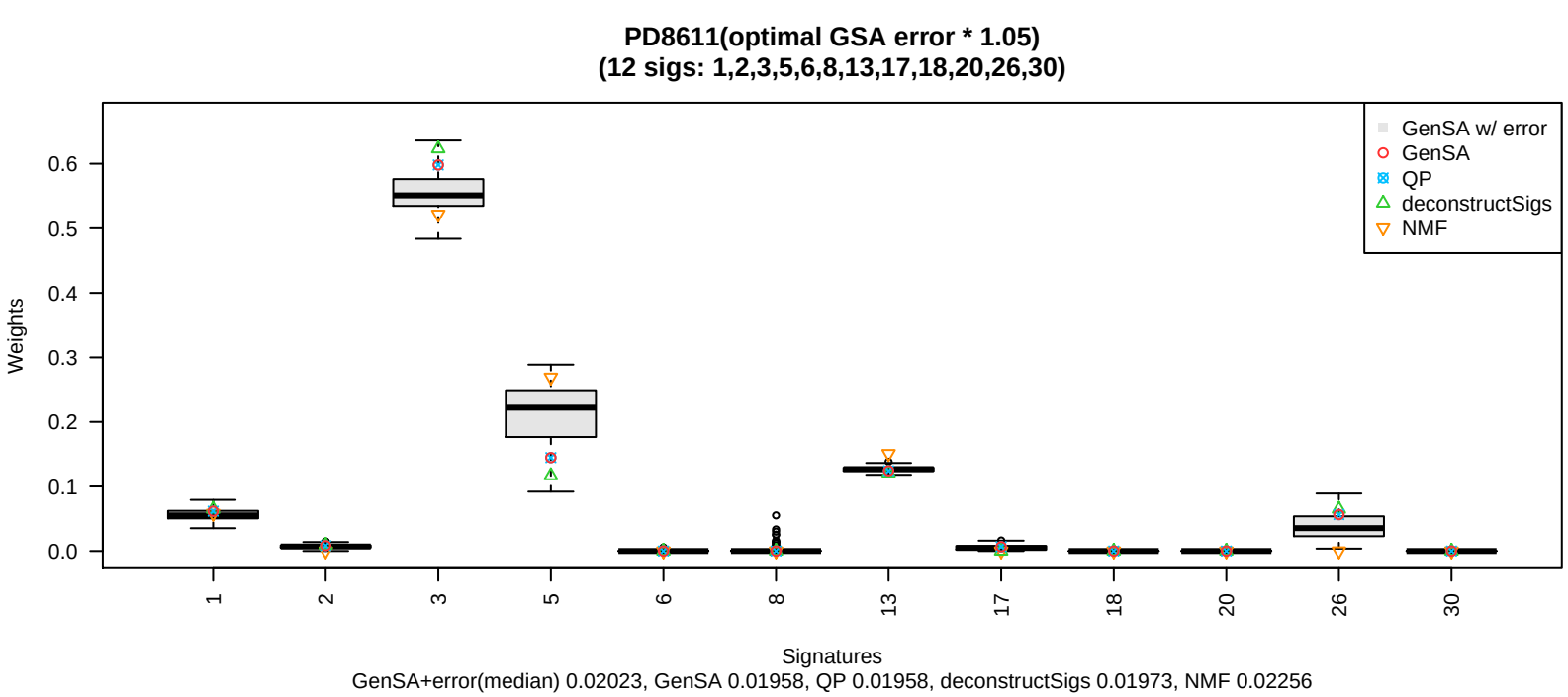
GenSA+error(median) 0.02480, GenSA 0.02382, QP 0.02382, deconstructSigs 0.02409, NMF 0.02656

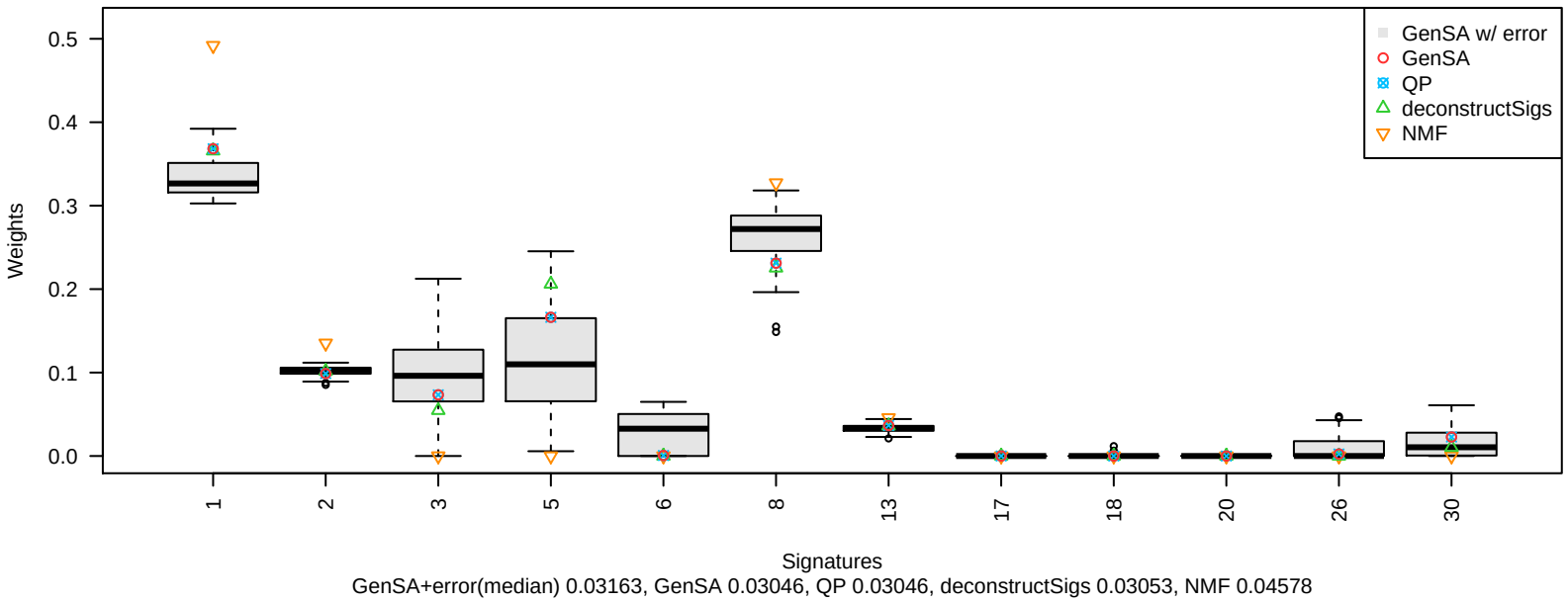


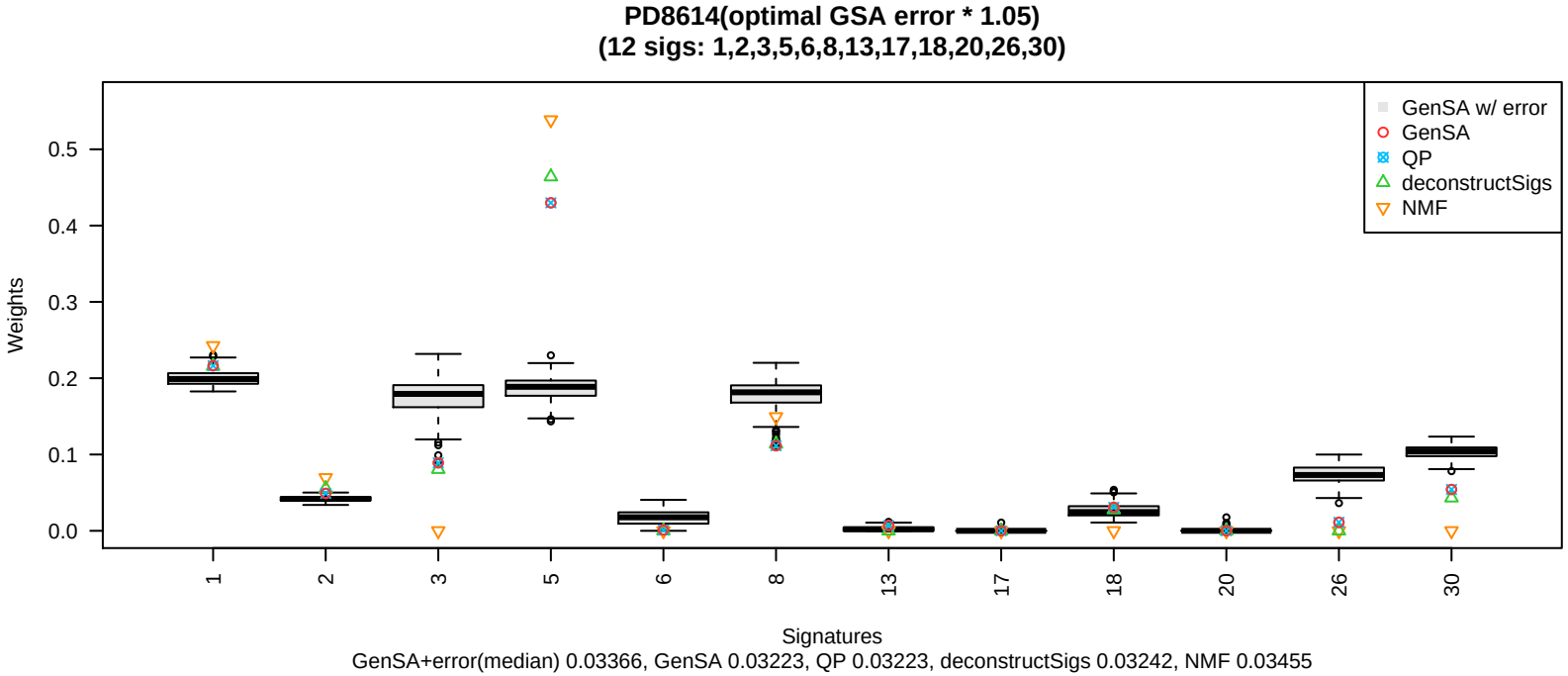
GenSA+error(median) 0.02311, GenSA 0.02226, QP 0.02226, deconstructSigs 0.02291, NMF 0.08802

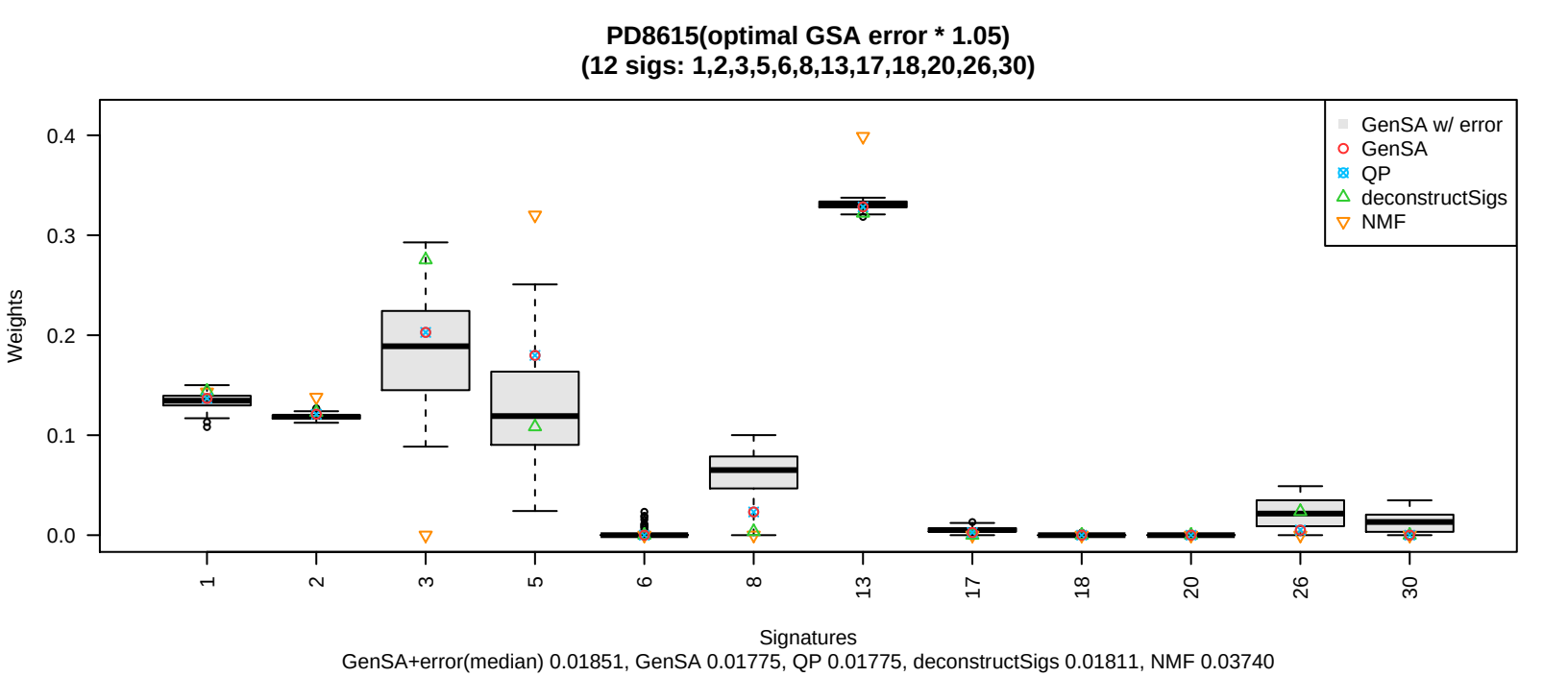


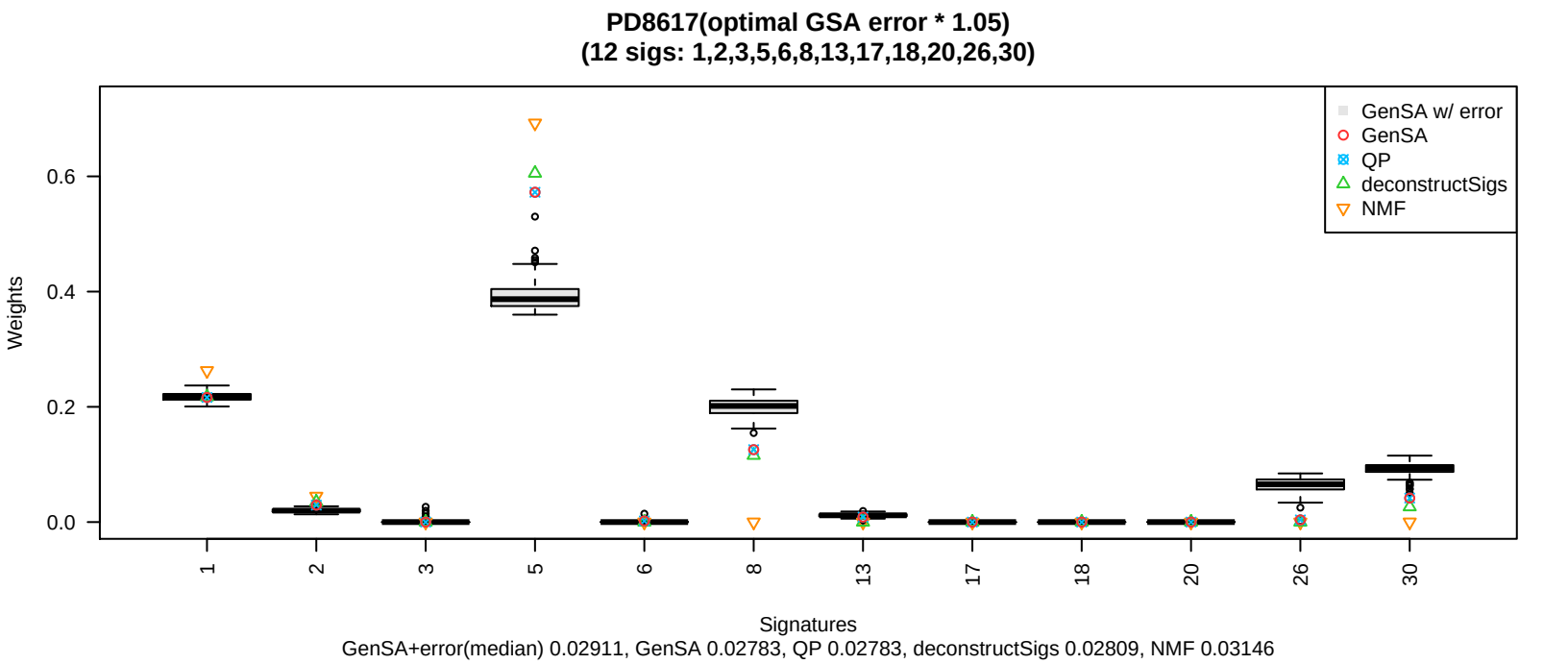
GenSA+error(median) 0.01814, GenSA 0.01745, QP 0.01745, deconstructSigs 0.01762, NMF 0.01985

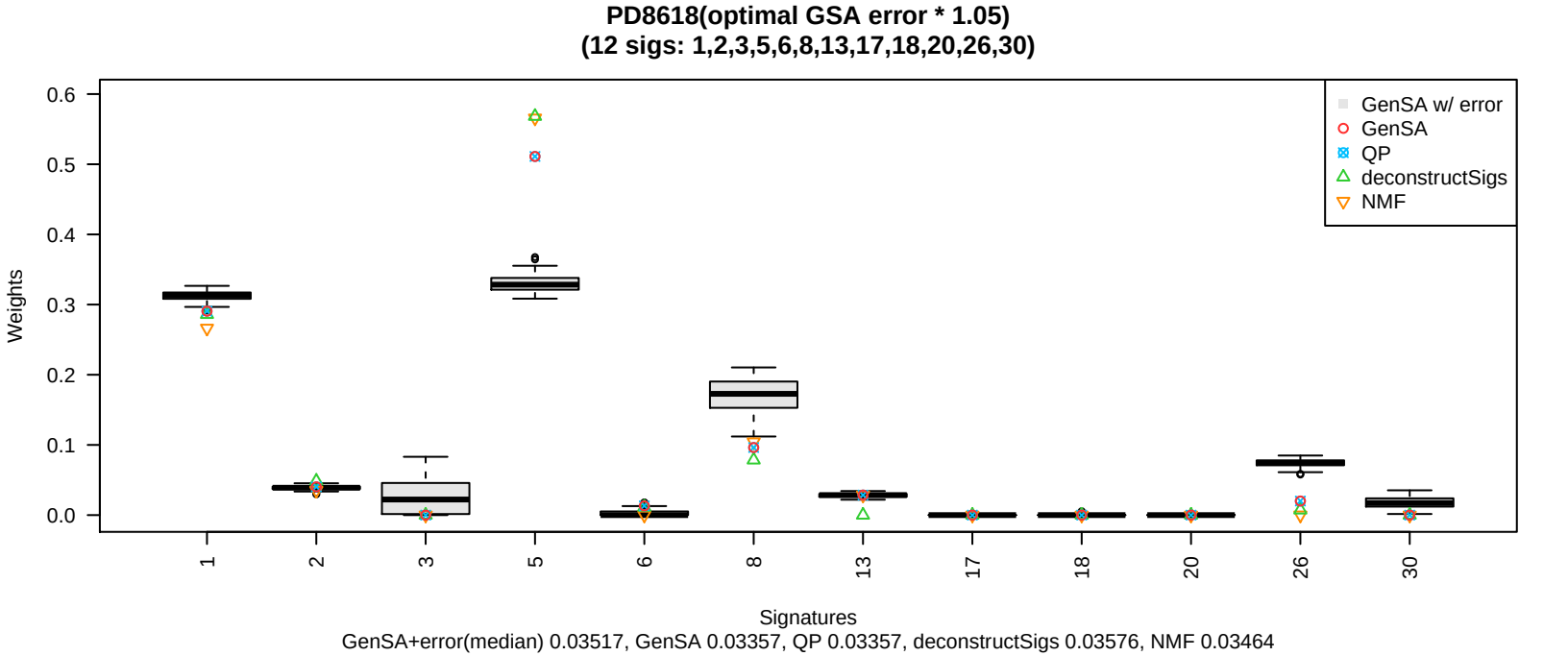

PD8611(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02023, GenSA 0.01958, QP 0.01958, deconstructSigs 0.01973, NMF 0.02256

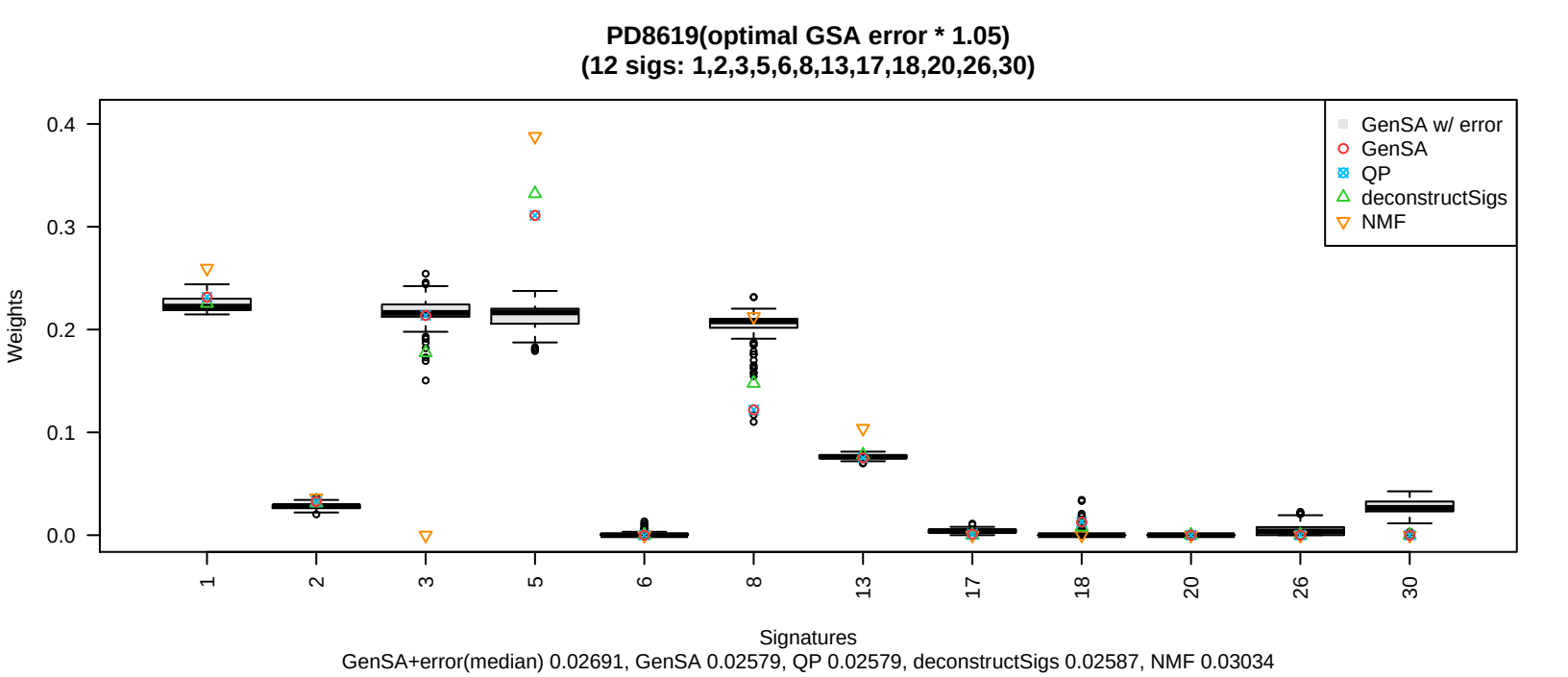

PD8612(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03163, GenSA 0.03046, QP 0.03046, deconstructSigs 0.03053, NMF 0.04578

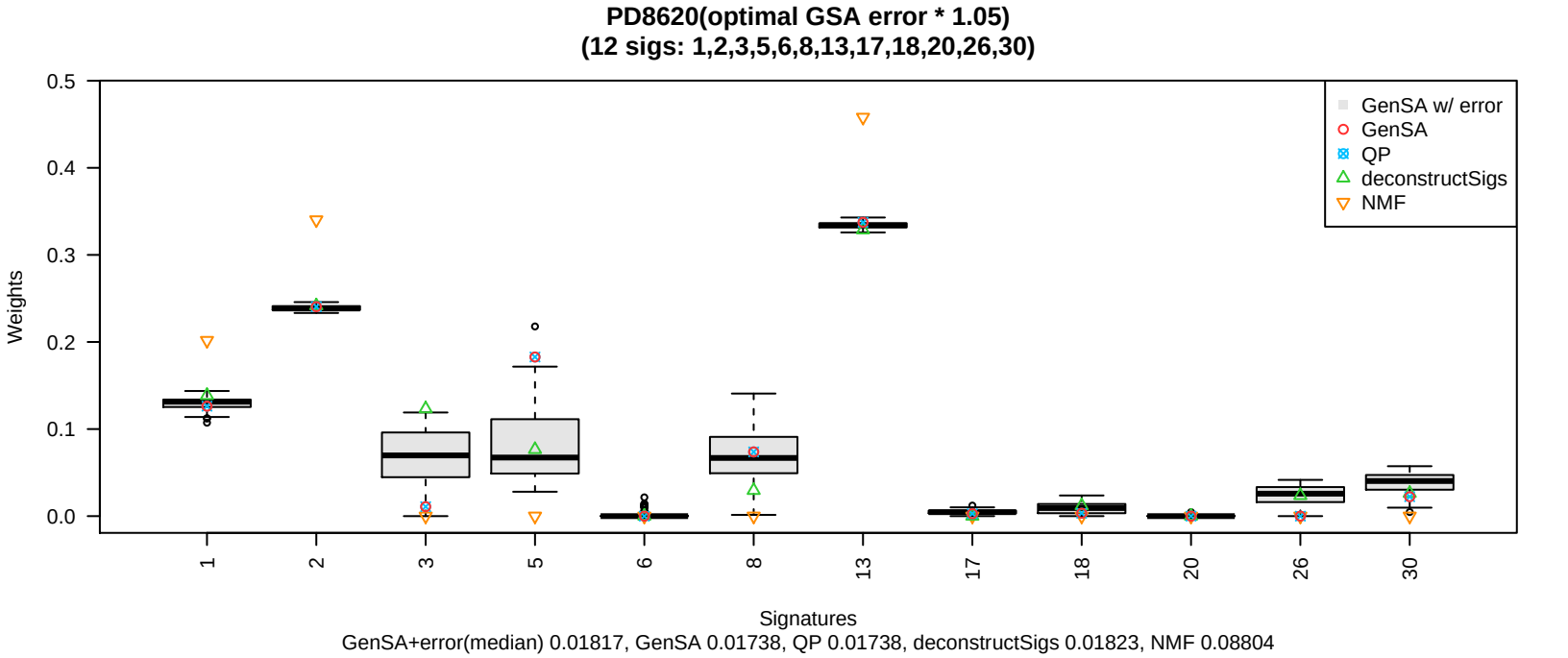

PD8614(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03366, GenSA 0.03223, QP 0.03223, deconstructSigs 0.03242, NMF 0.03455

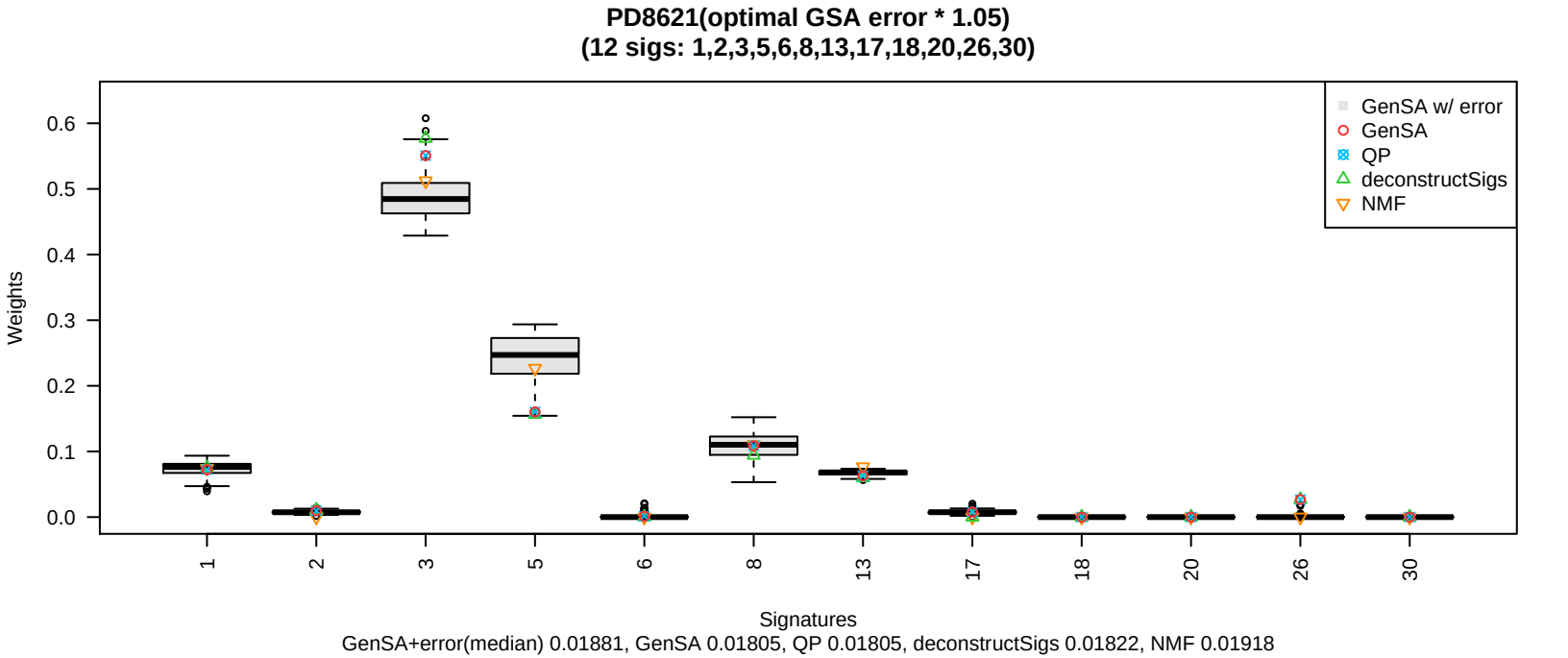

PD8615(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01851, GenSA 0.01775, QP 0.01775, deconstructSigs 0.01811, NMF 0.03740

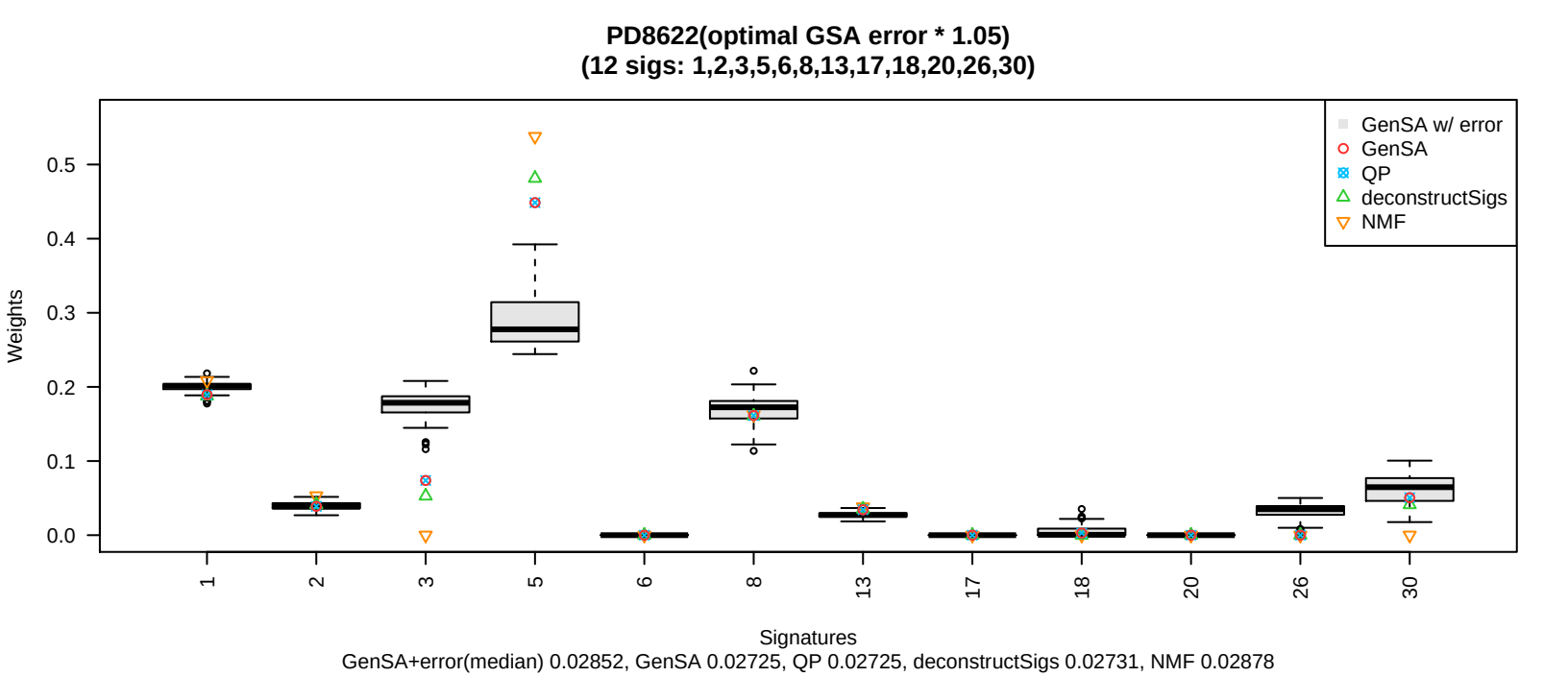

PD8617(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.2
0.4
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02911, GenSA 0.02783, QP 0.02783, deconstructSigs 0.02809, NMF 0.03146

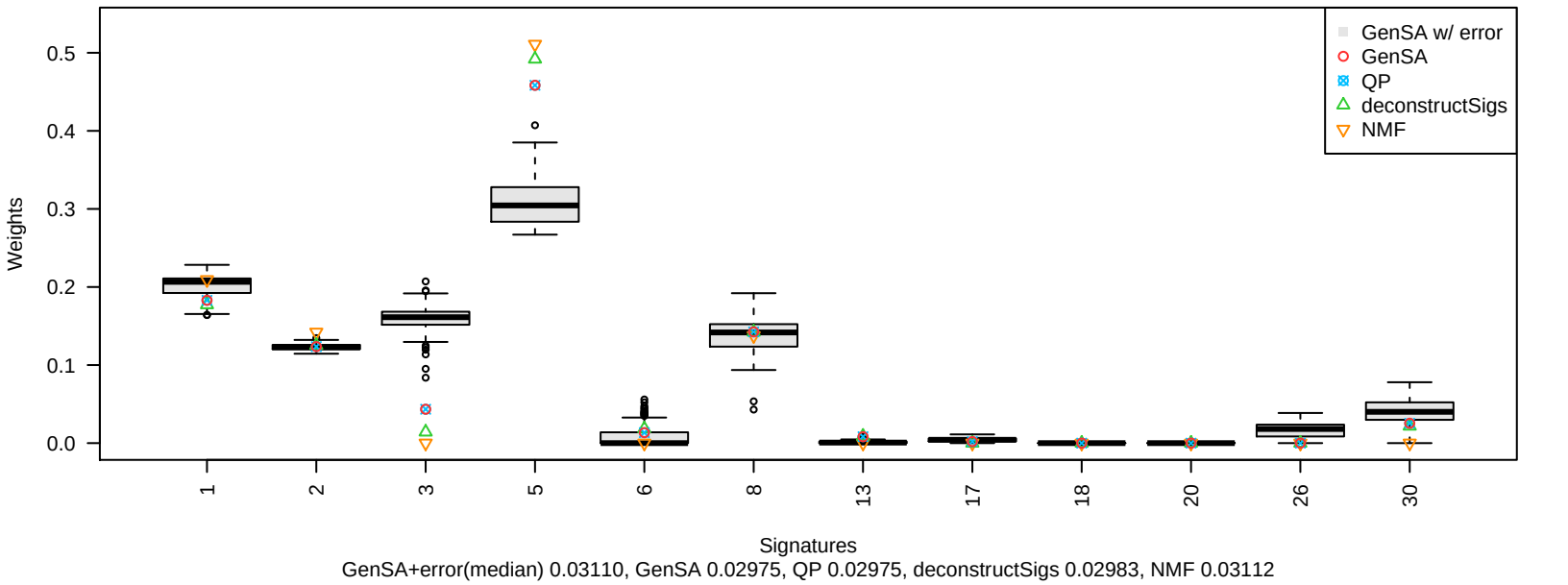

PD8618(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03517, GenSA 0.03357, QP 0.03357, deconstructSigs 0.03576, NMF 0.03464

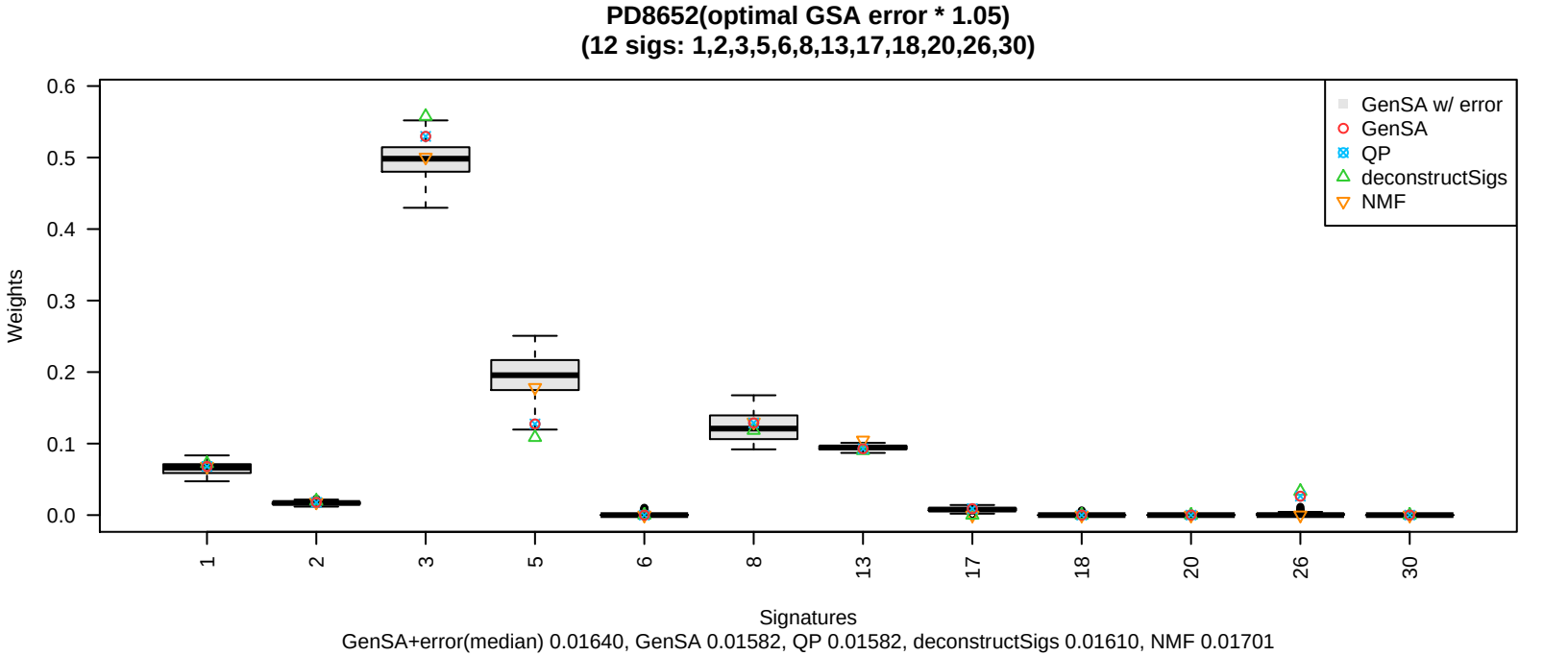

PD8619(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02691, GenSA 0.02579, QP 0.02579, deconstructSigs 0.02587, NMF 0.03034

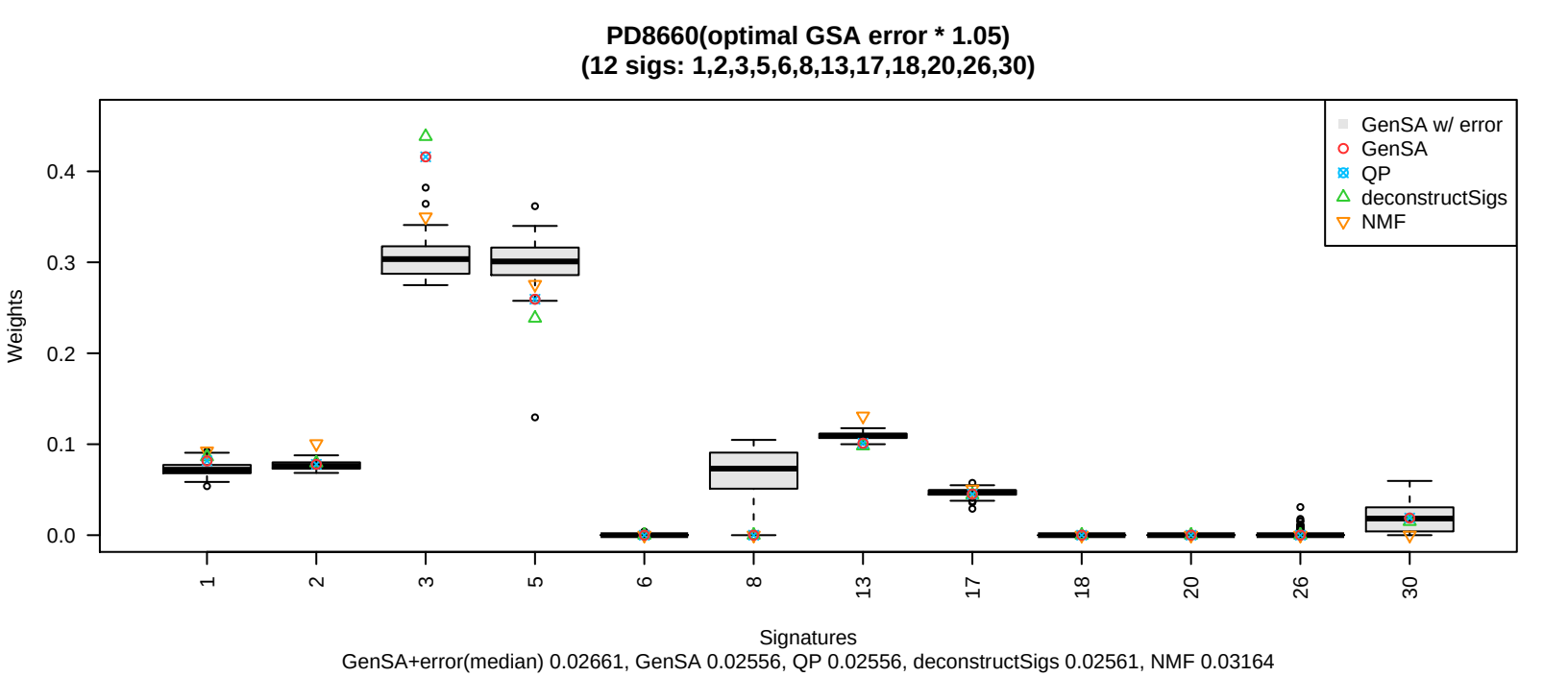

PD8620(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01817, GenSA 0.01738, QP 0.01738, deconstructSigs 0.01823, NMF 0.08804

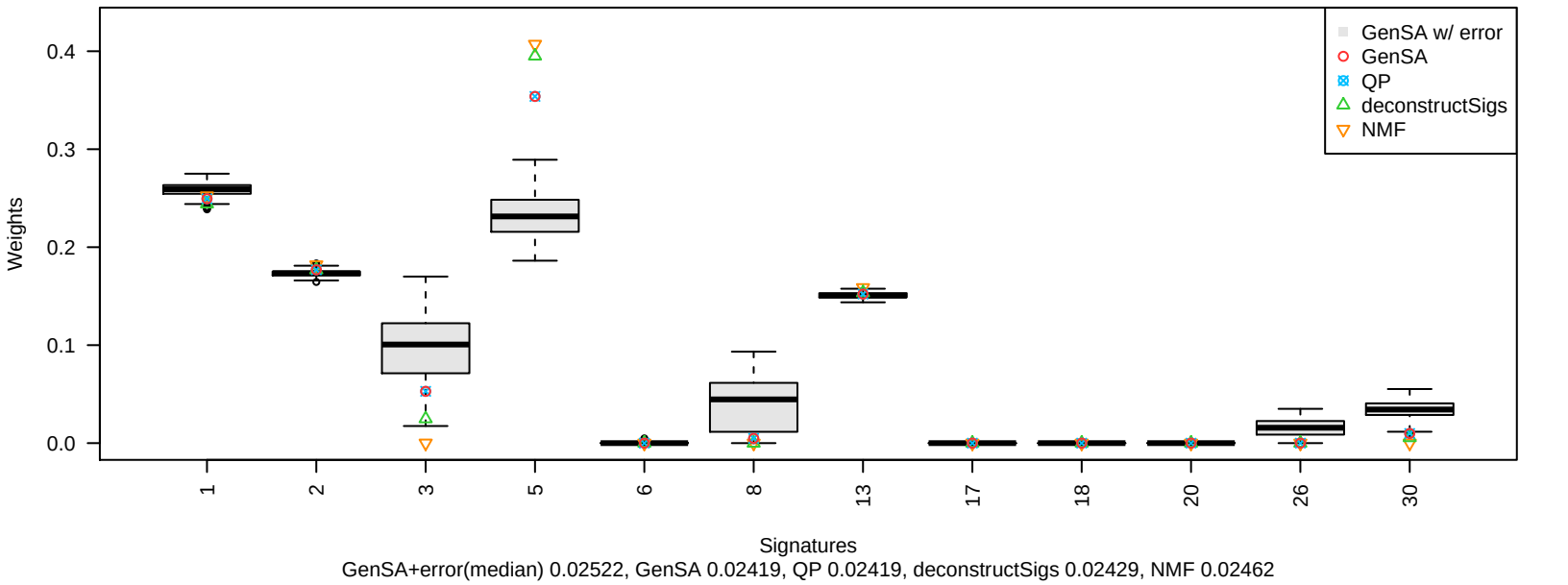

PD8621(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01881, GenSA 0.01805, QP 0.01805, deconstructSigs 0.01822, NMF 0.01918

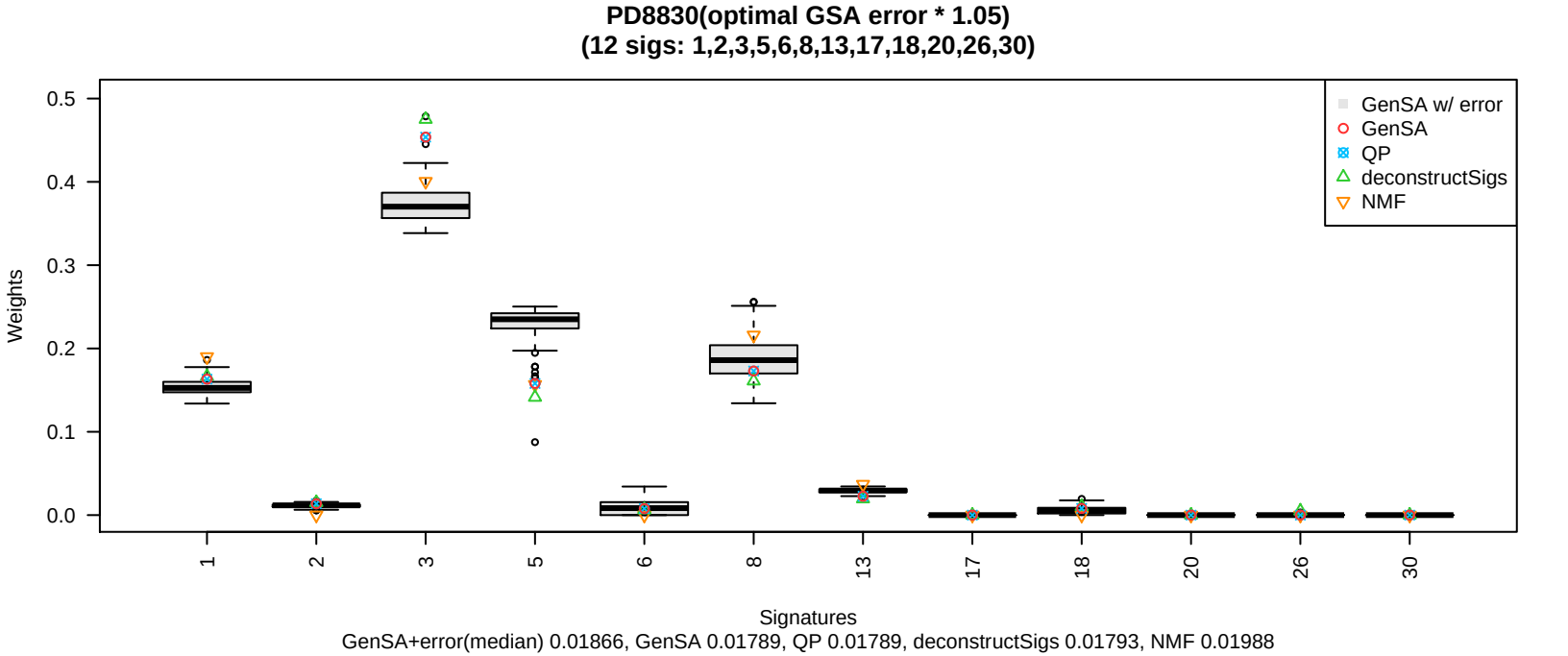

PD8622(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02852, GenSA 0.02725, QP 0.02725, deconstructSigs 0.02731, NMF 0.02878

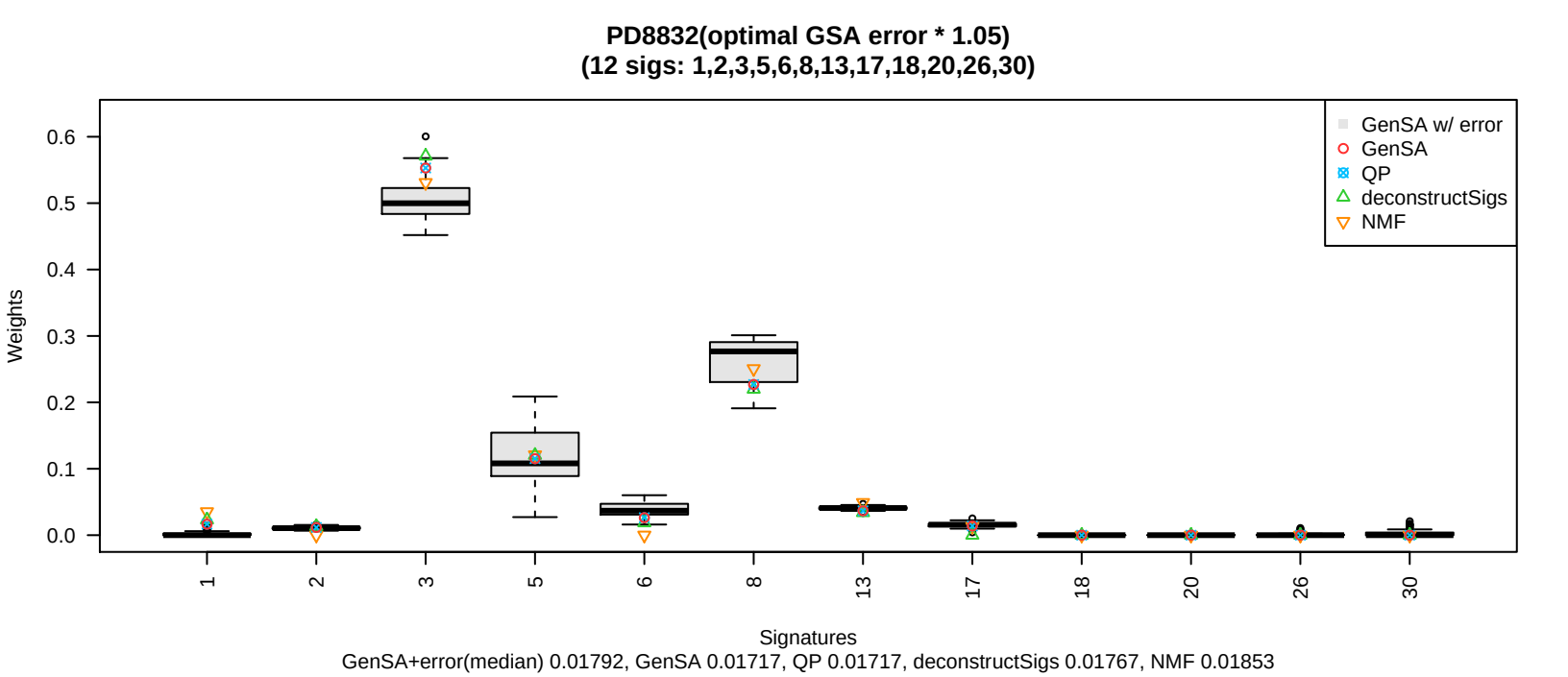

PD8623(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03110, GenSA 0.02975, QP 0.02975, deconstructSigs 0.02983, NMF 0.03112


PD8652(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01640, GenSA 0.01582, QP 0.01582, deconstructSigs 0.01610, NMF 0.01701

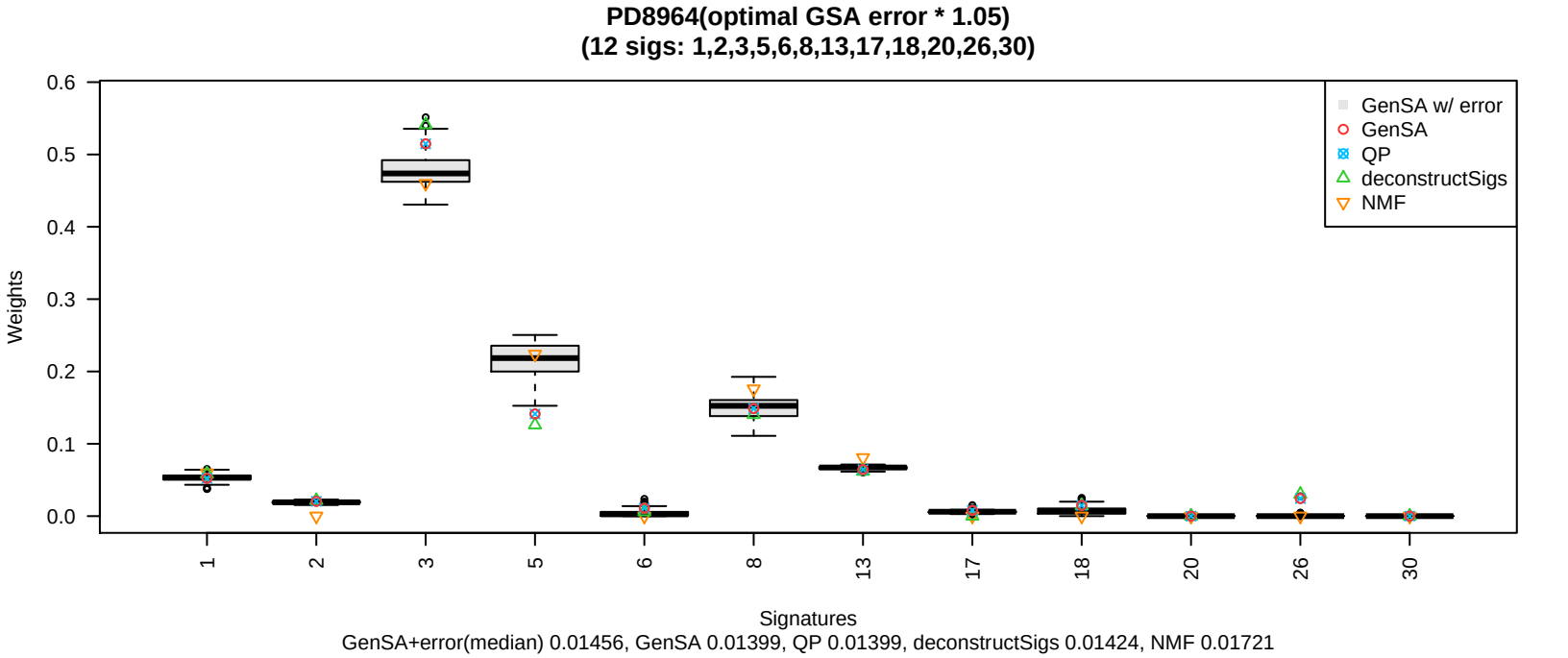

PD8660(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02661, GenSA 0.02556, QP 0.02556, deconstructSigs 0.02561, NMF 0.03164


PD8828(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02522, GenSA 0.02419, QP 0.02419, deconstructSigs 0.02429, NMF 0.02462

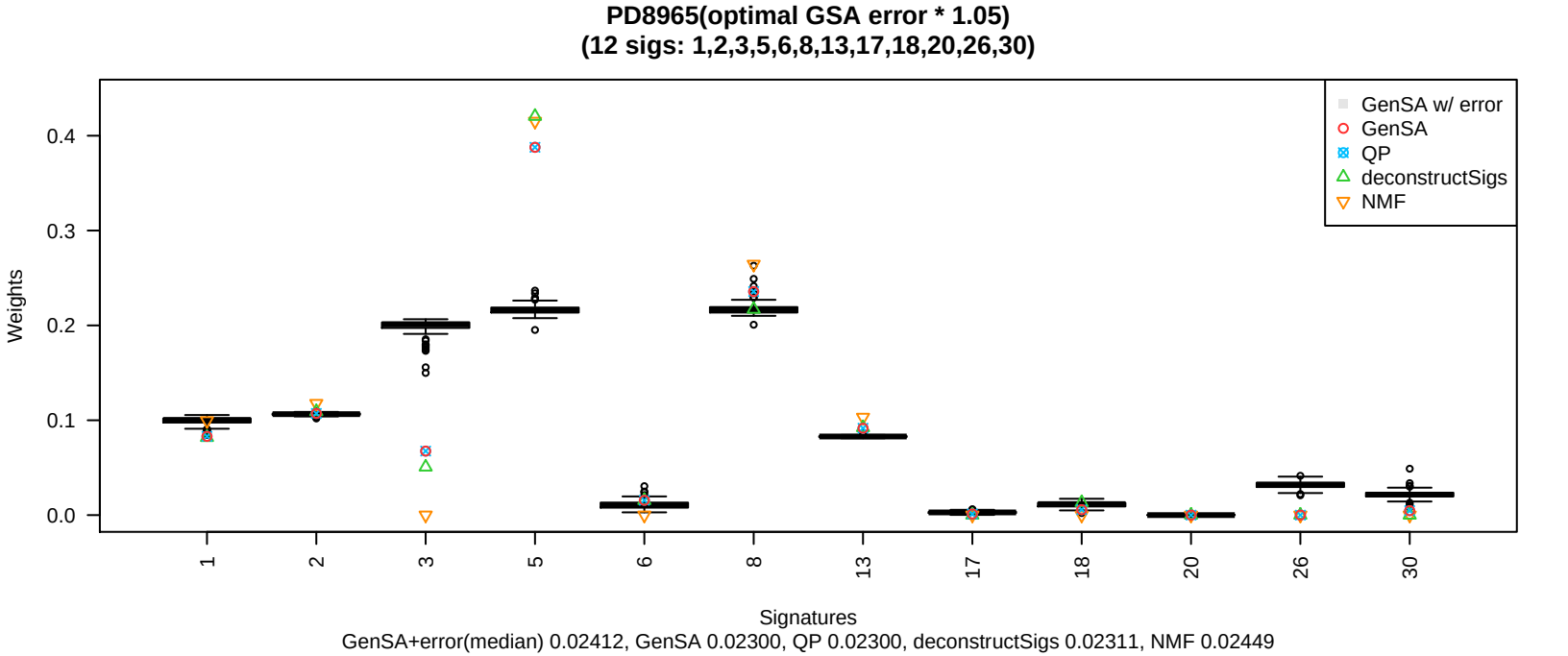

PD8830(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01866, GenSA 0.01789, QP 0.01789, deconstructSigs 0.01793, NMF 0.01988



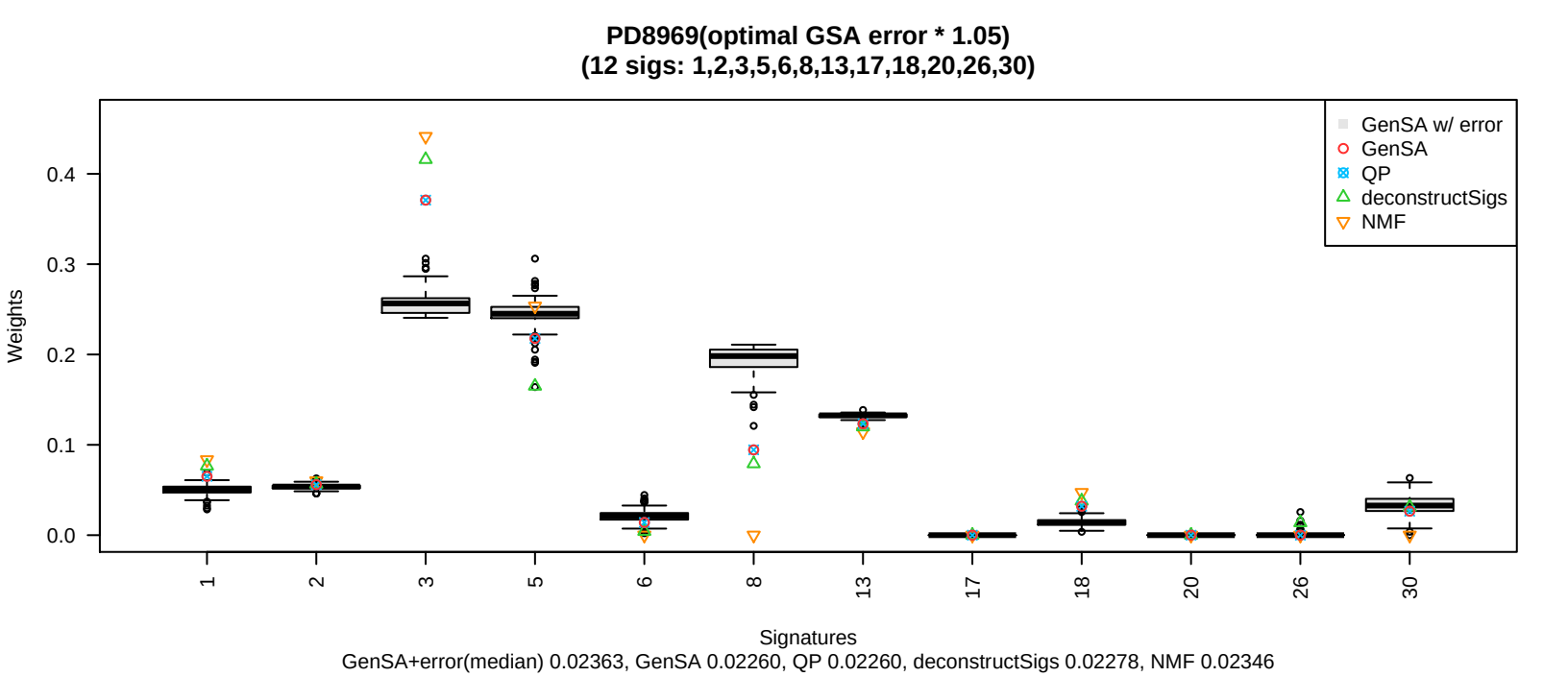
GenSA+error(median) 0.01792, GenSA 0.01717, QP 0.01717, deconstructSigs 0.01767, NMF 0.01853



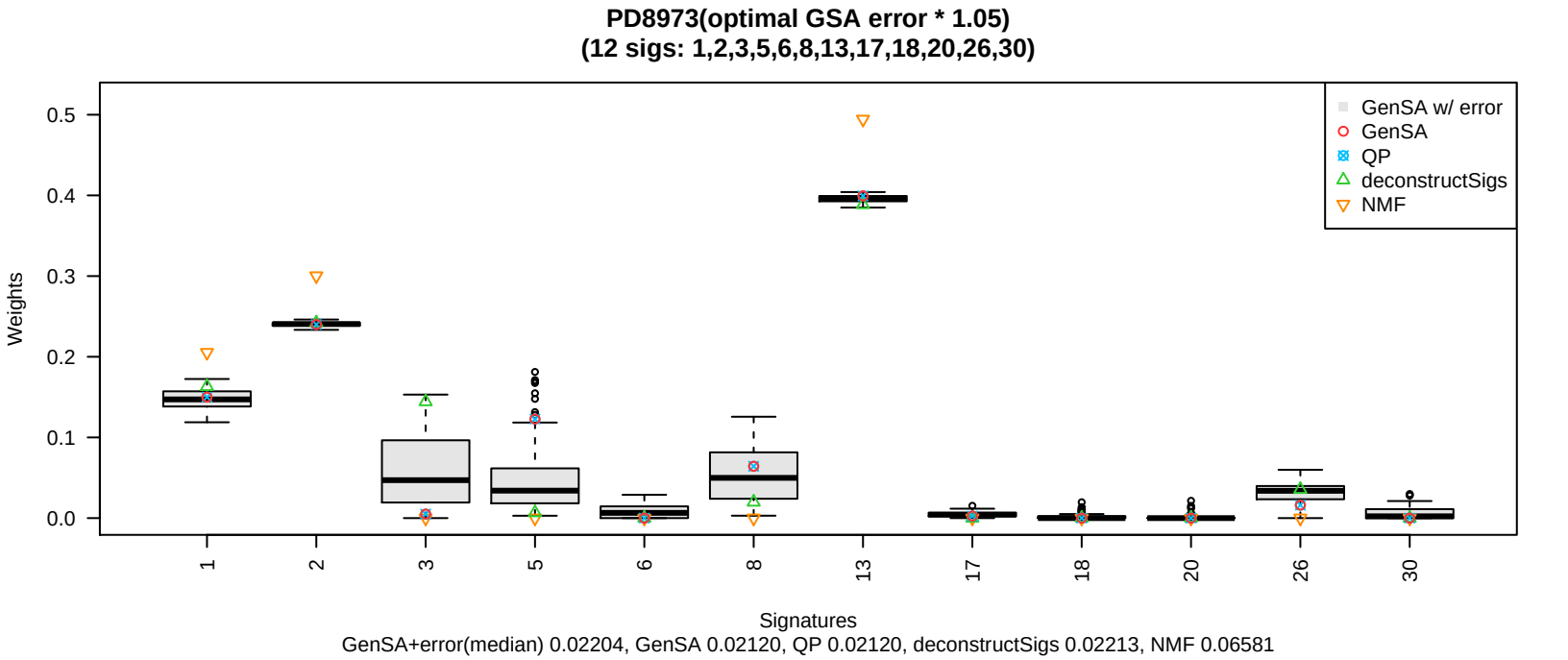
GenSA+error(median) 0.01456, GenSA 0.01399, QP 0.01399, deconstructSigs 0.01424, NMF 0.01721



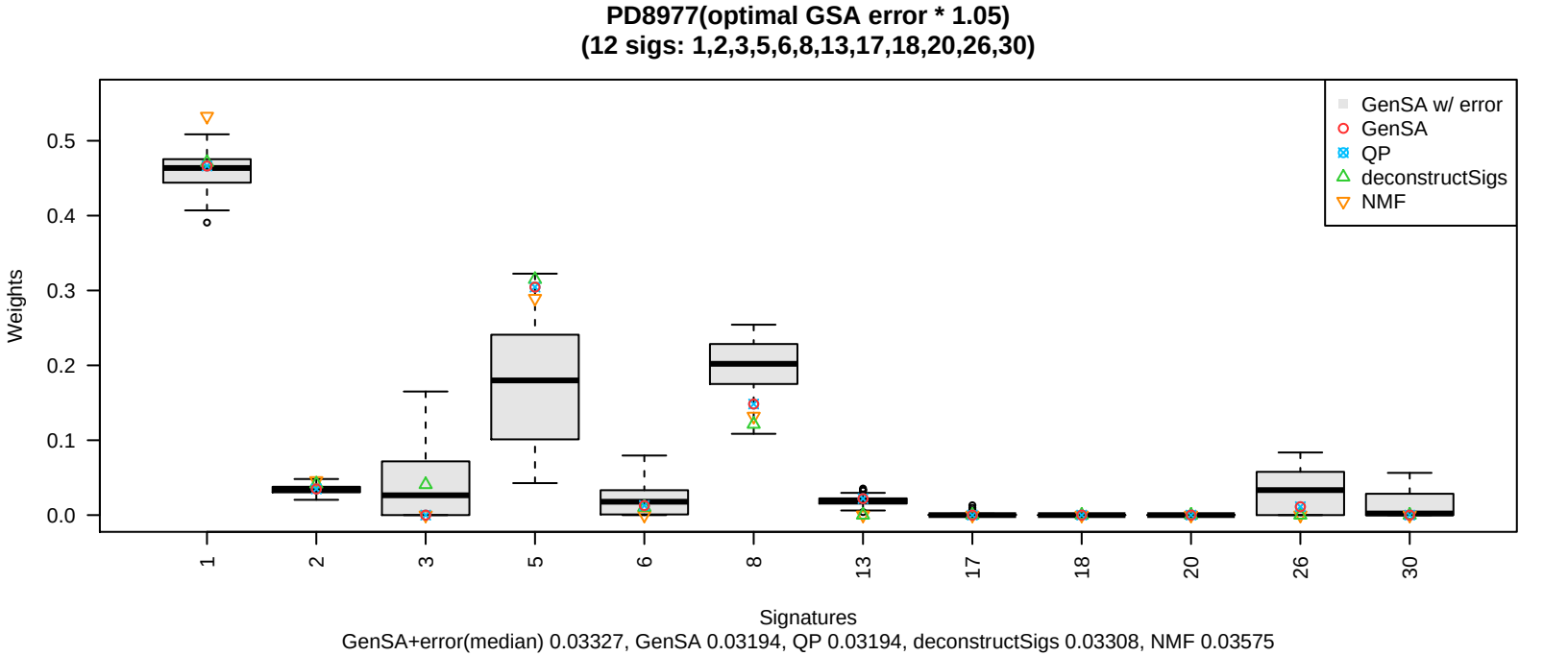
GenSA+error(median) 0.02412, GenSA 0.02300, QP 0.02300, deconstructSigs 0.02311, NMF 0.02449



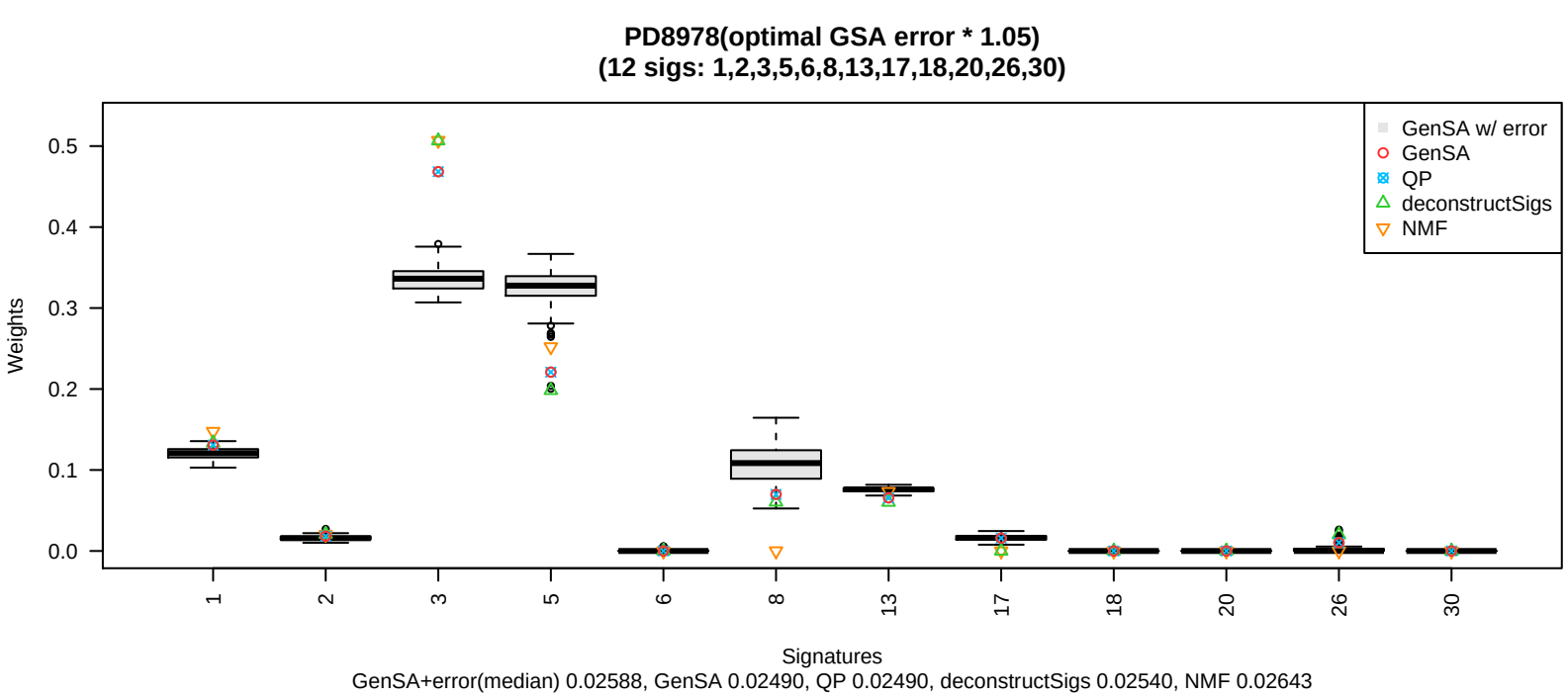
GenSA+error(median) 0.02363, GenSA 0.02260, QP 0.02260, deconstructSigs 0.02278, NMF 0.02346



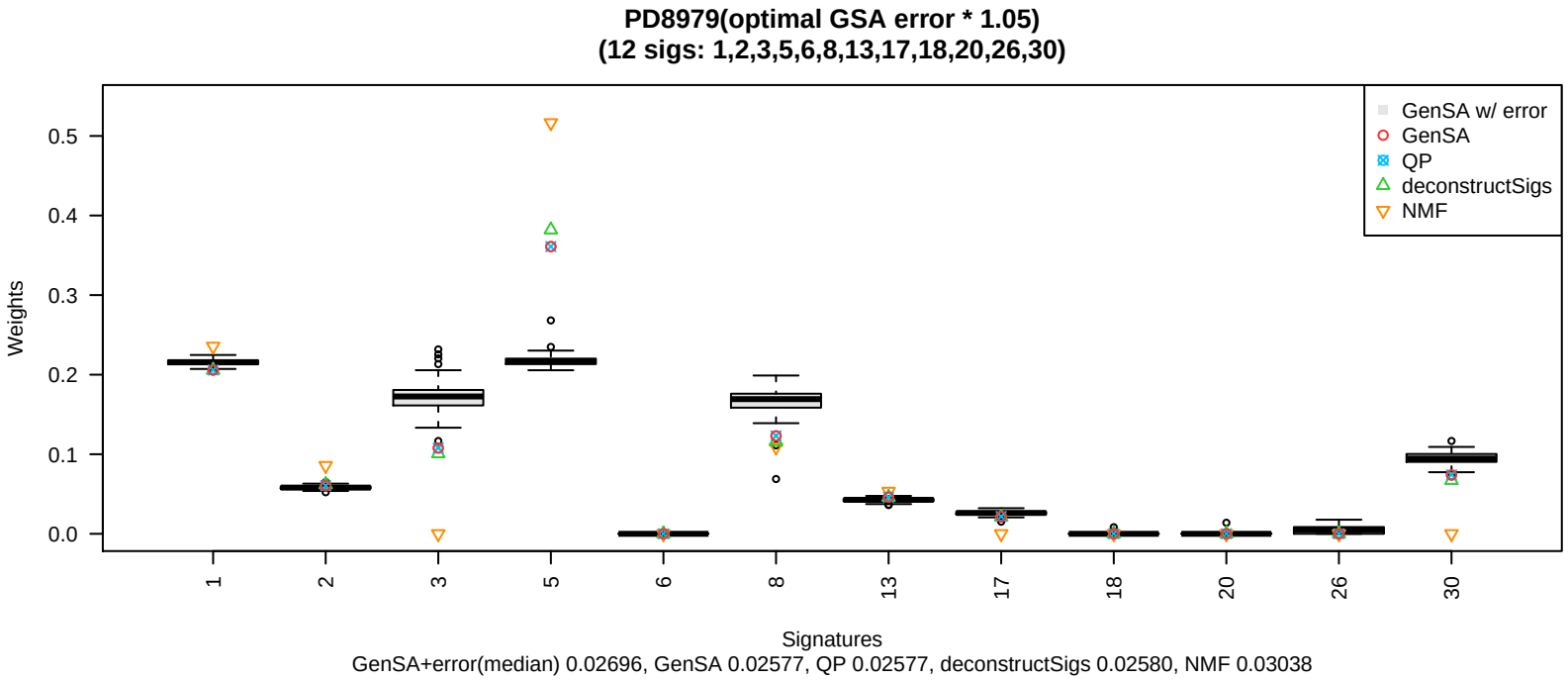
GenSA+error(median) 0.02204, GenSA 0.02120, QP 0.02120, deconstructSigs 0.02213, NMF 0.06581



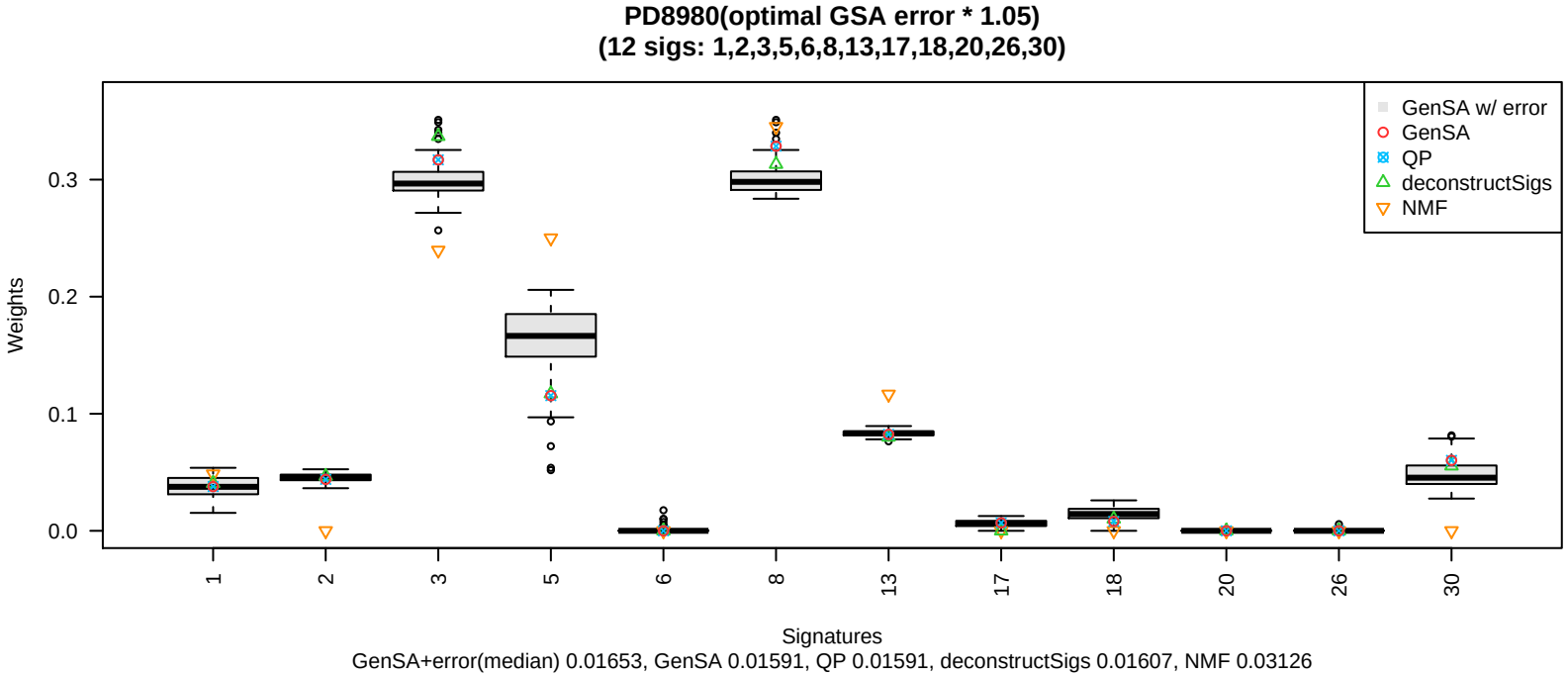
GenSA+error(median) 0.03327, GenSA 0.03194, QP 0.03194, deconstructSigs 0.03308, NMF 0.03575



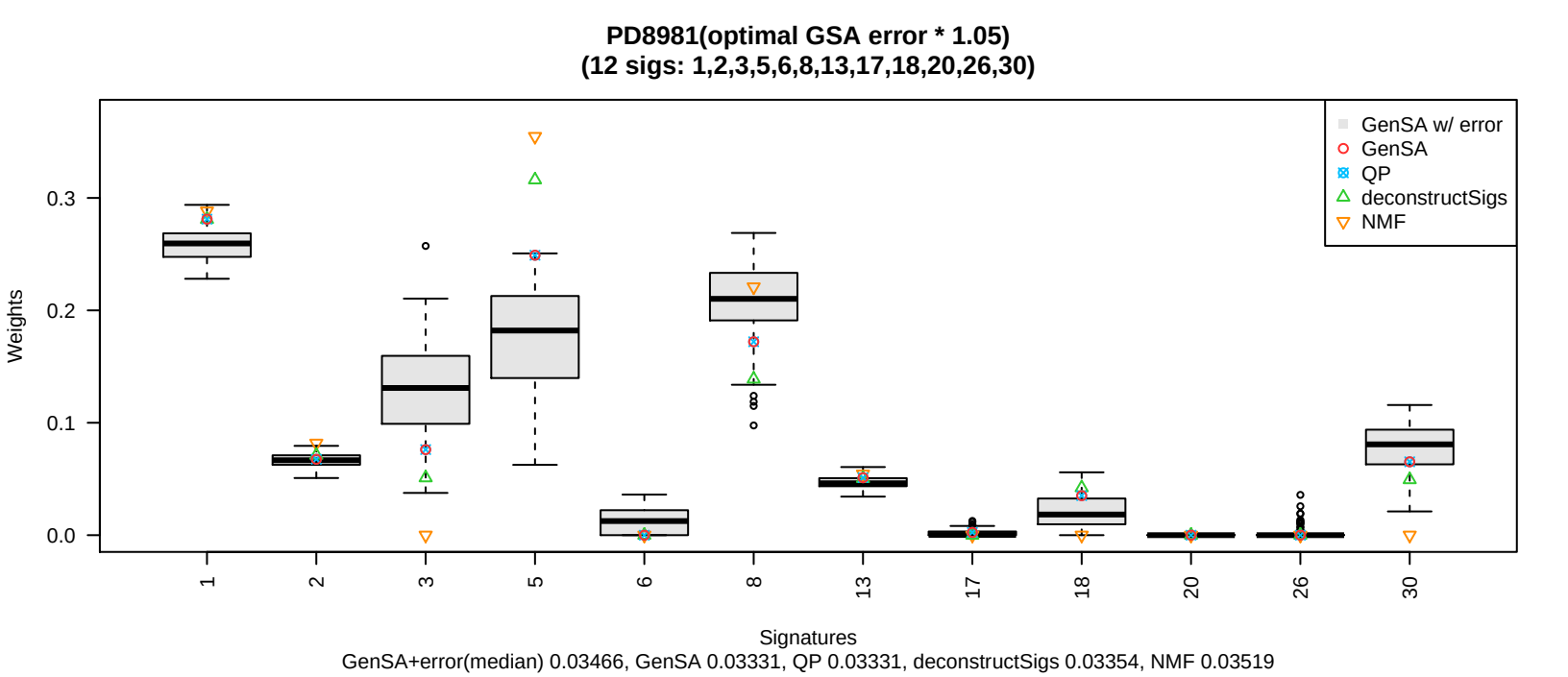
GenSA+error(median) 0.02588, GenSA 0.02490, QP 0.02490, deconstructSigs 0.02540, NMF 0.02643



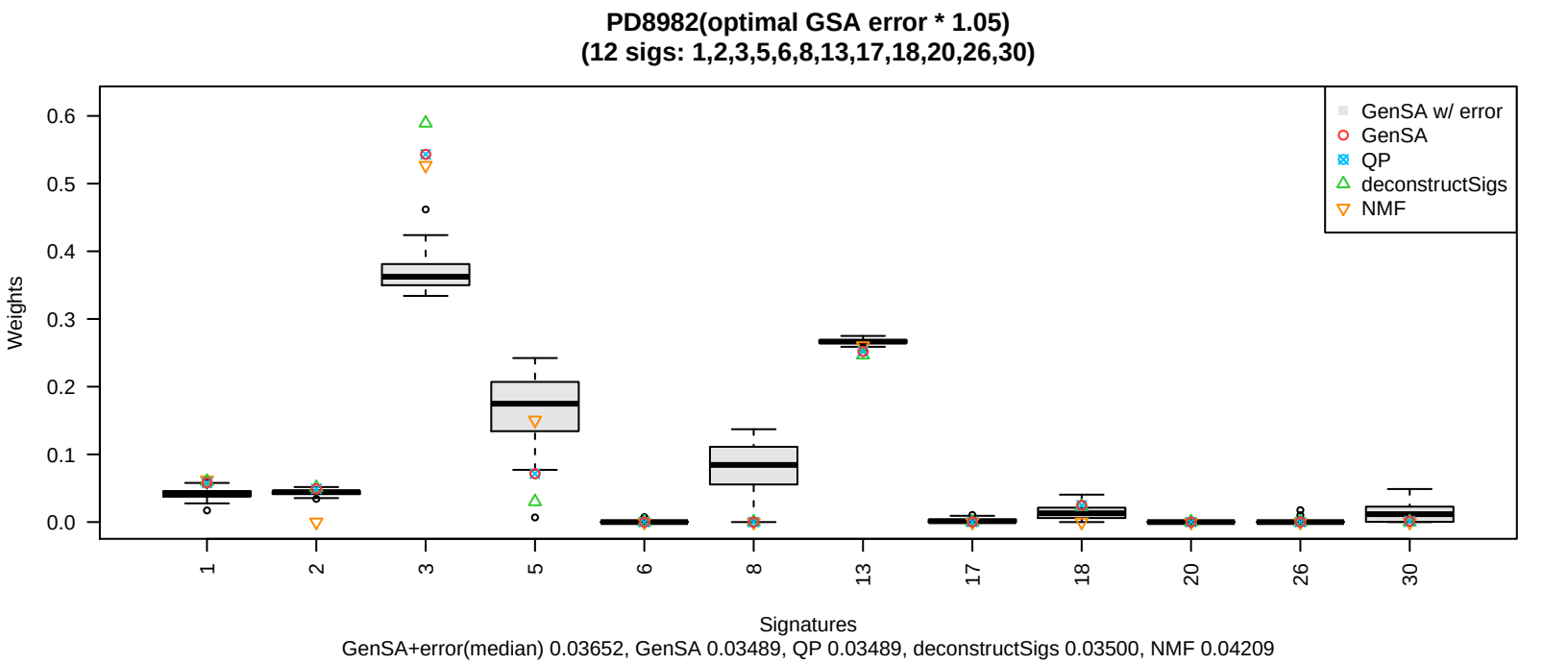
GenSA+error(median) 0.02696, GenSA 0.02577, QP 0.02577, deconstructSigs 0.02580, NMF 0.03038



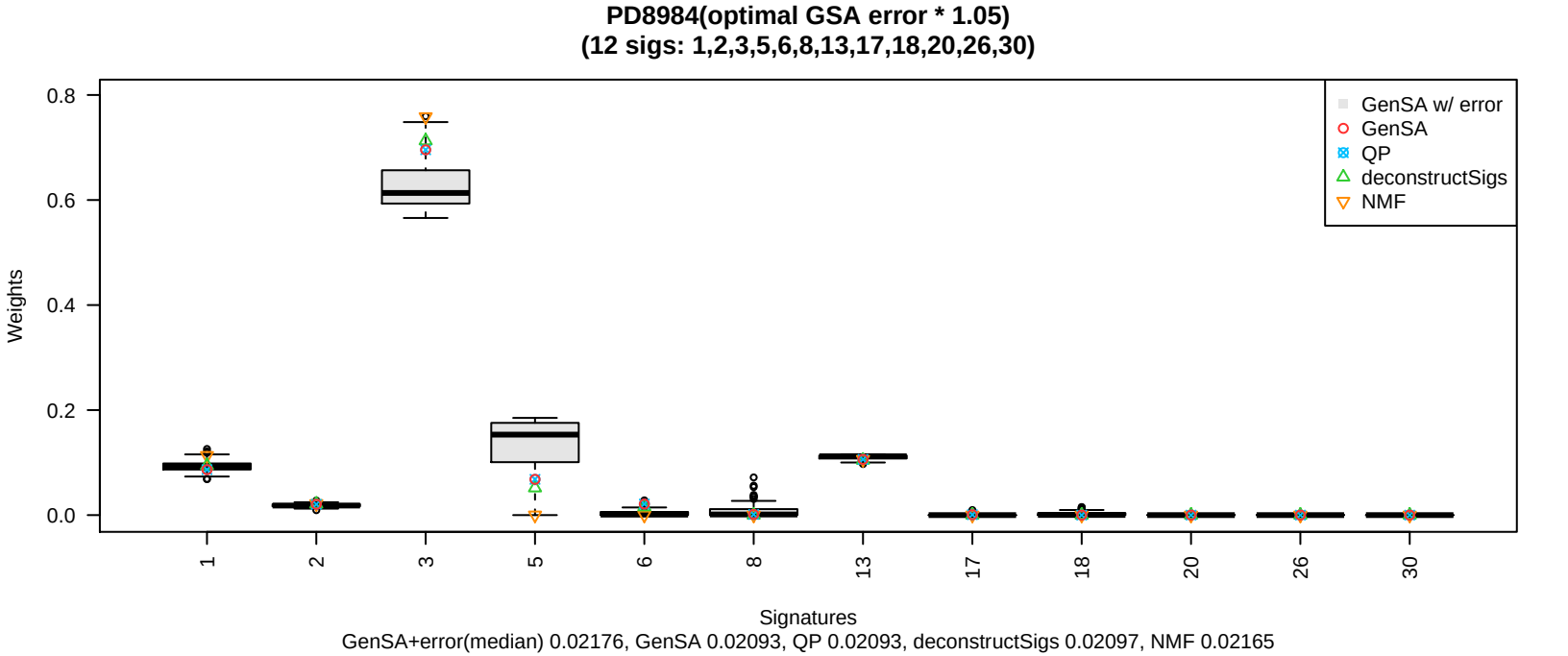
GenSA+error(median) 0.01653, GenSA 0.01591, QP 0.01591, deconstructSigs 0.01607, NMF 0.03126



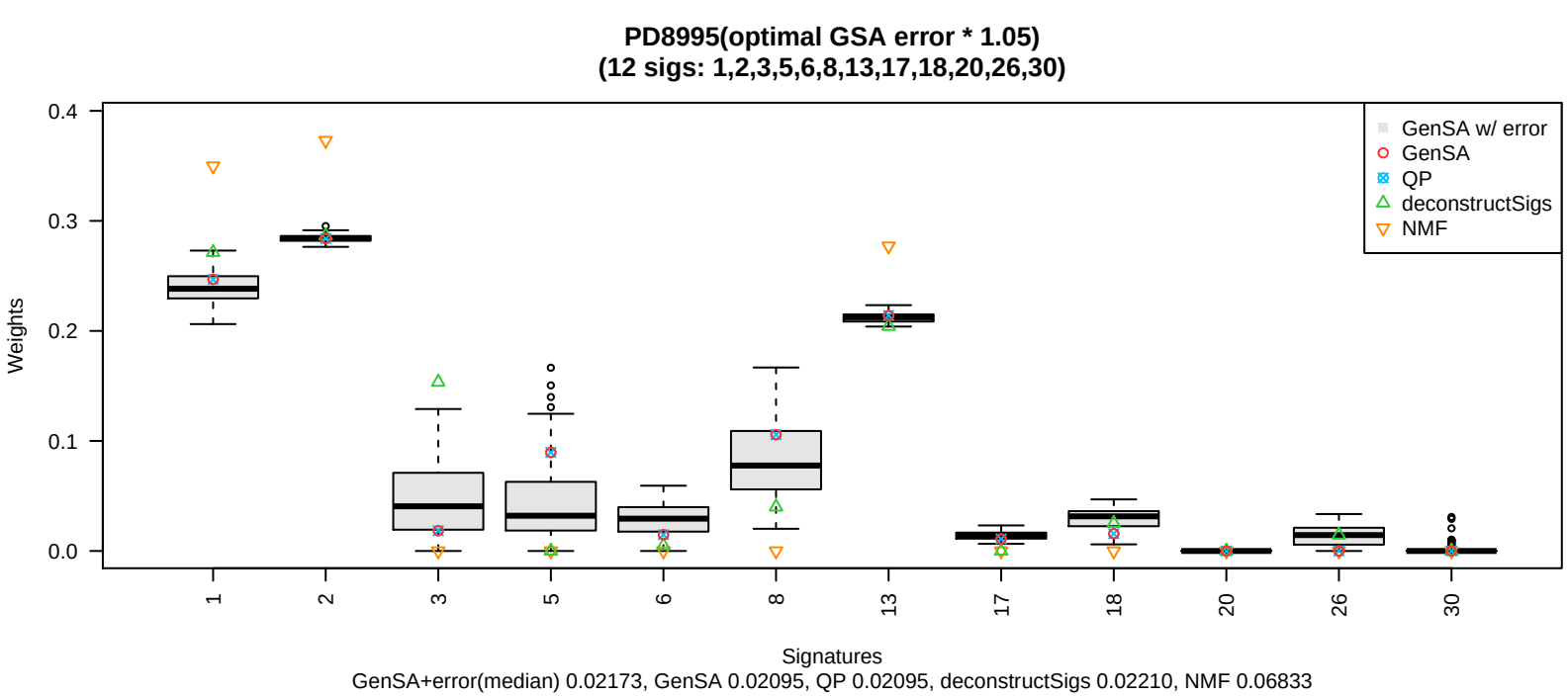
GenSA+error(median) 0.03466, GenSA 0.03331, QP 0.03331, deconstructSigs 0.03354, NMF 0.03519

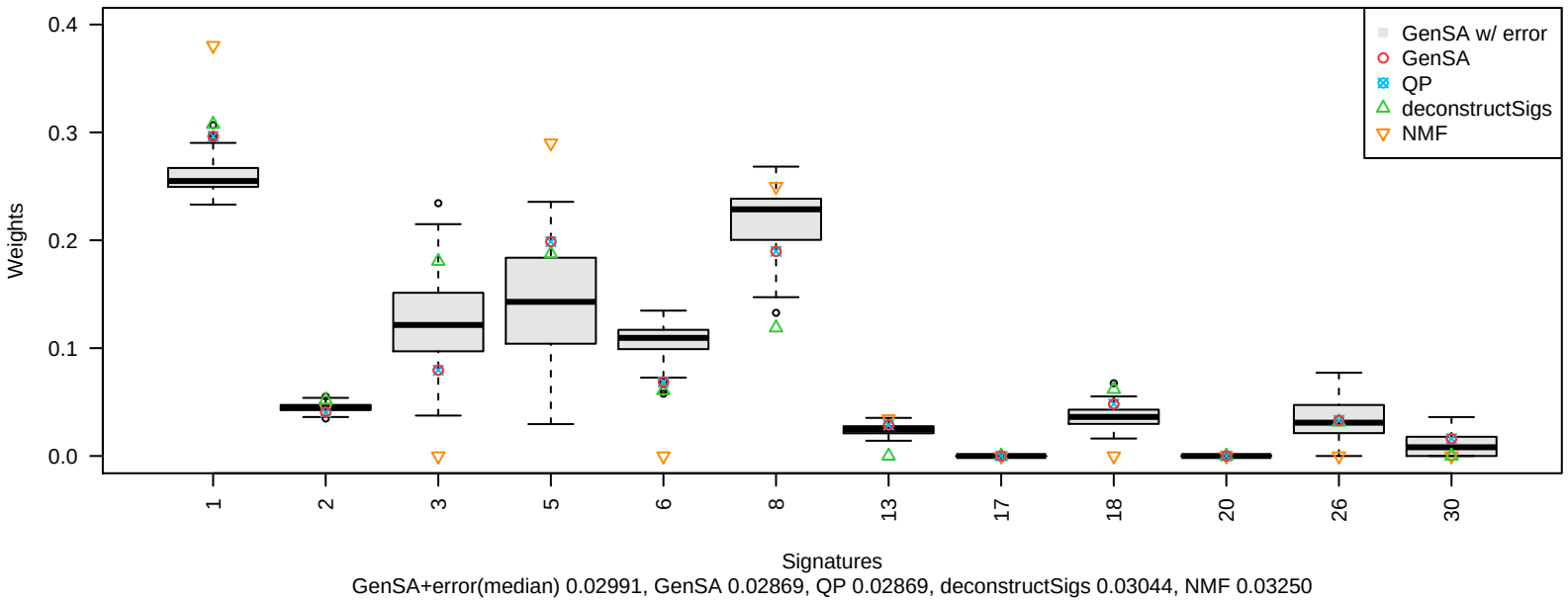


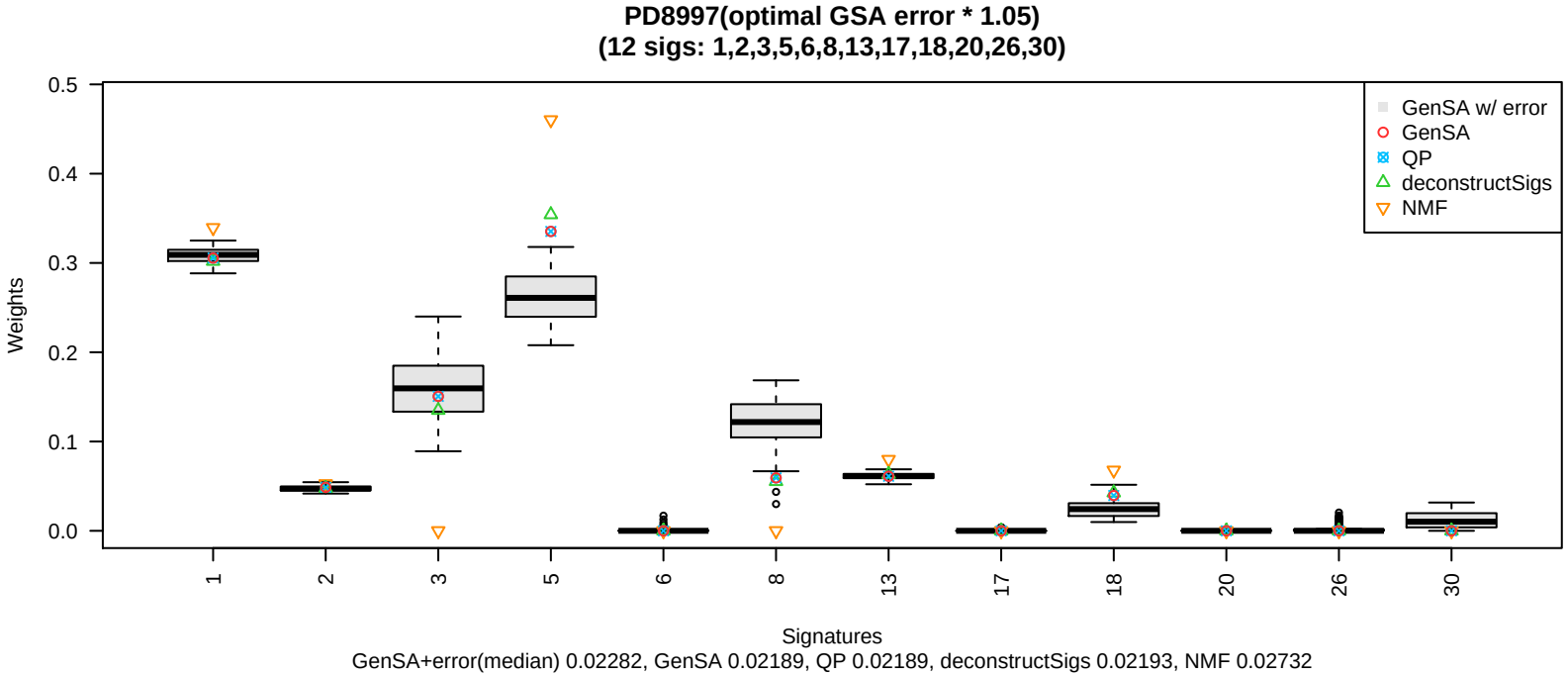
GenSA+error(median) 0.03652, GenSA 0.03489, QP 0.03489, deconstructSigs 0.03500, NMF 0.04209

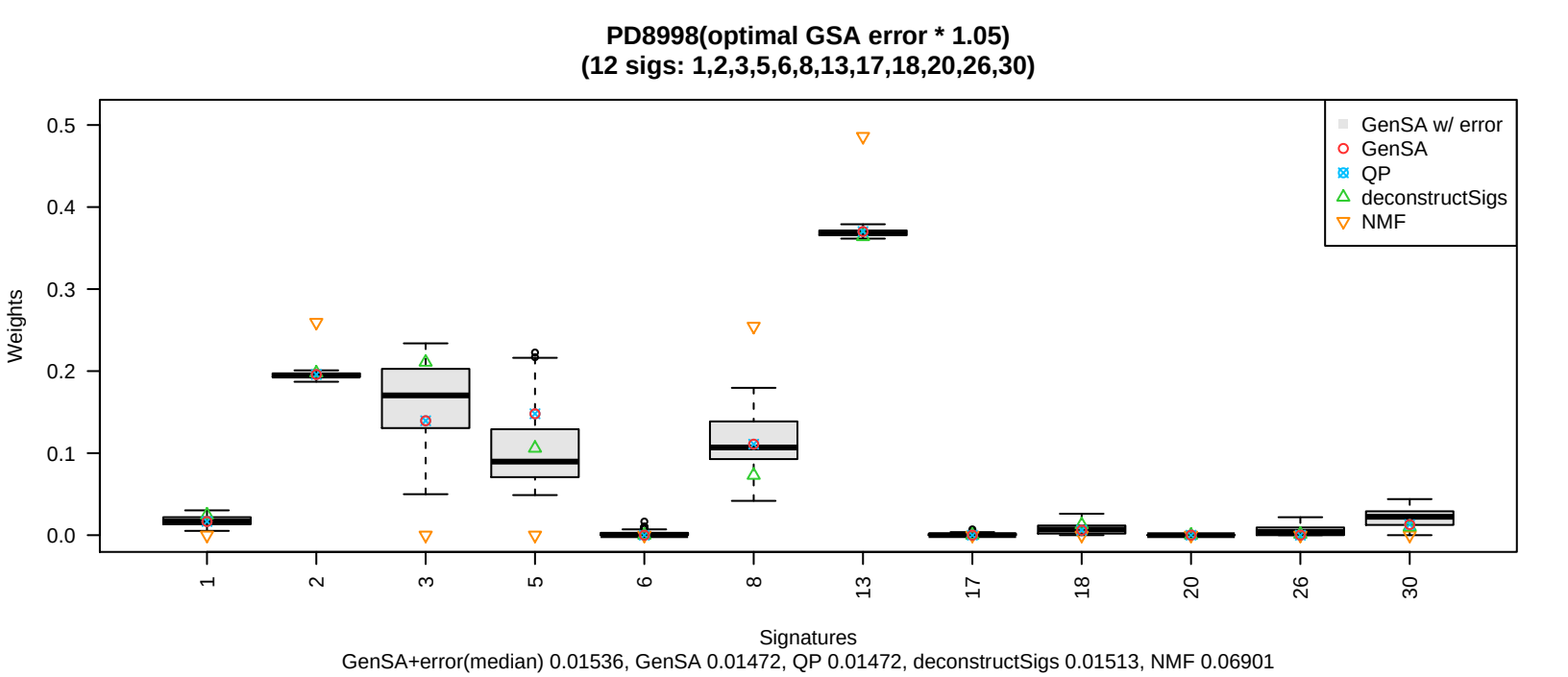


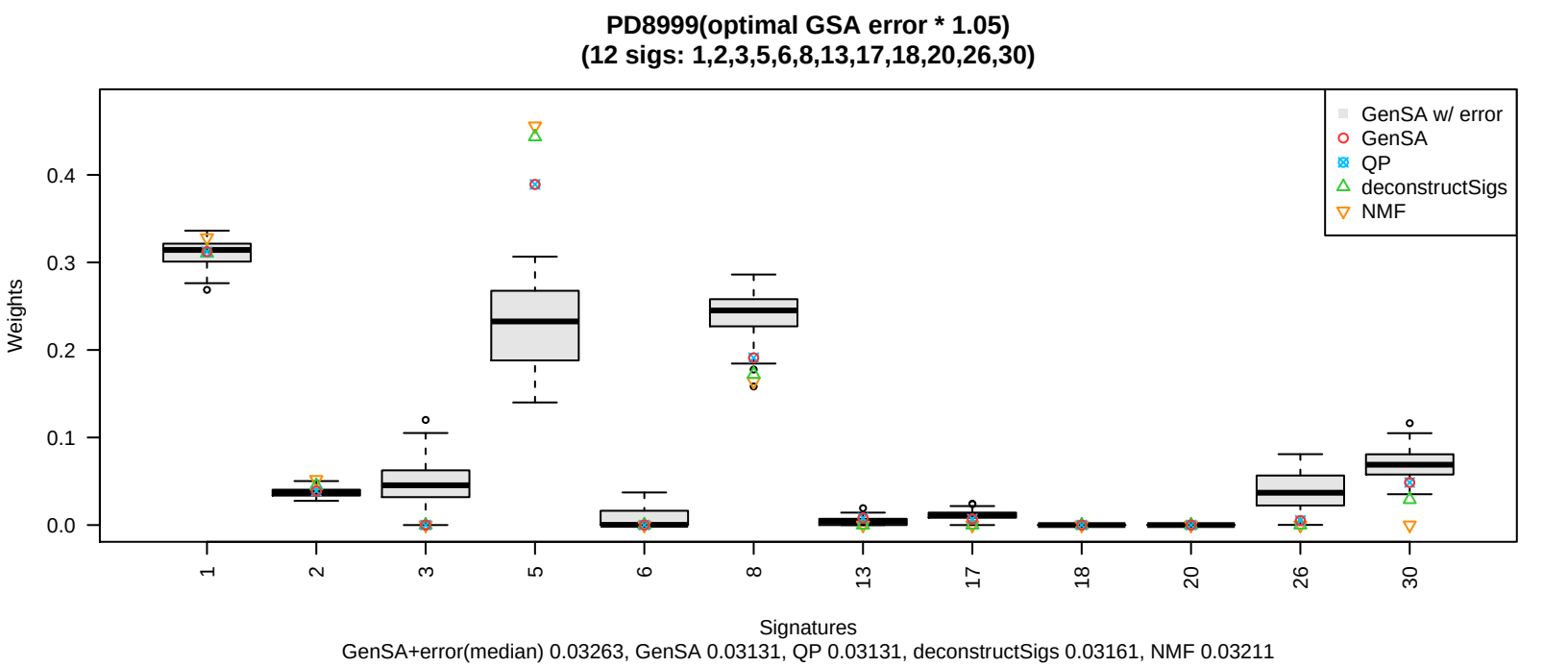
GenSA+error(median) 0.02176, GenSA 0.02093, QP 0.02093, deconstructSigs 0.02097, NMF 0.02165

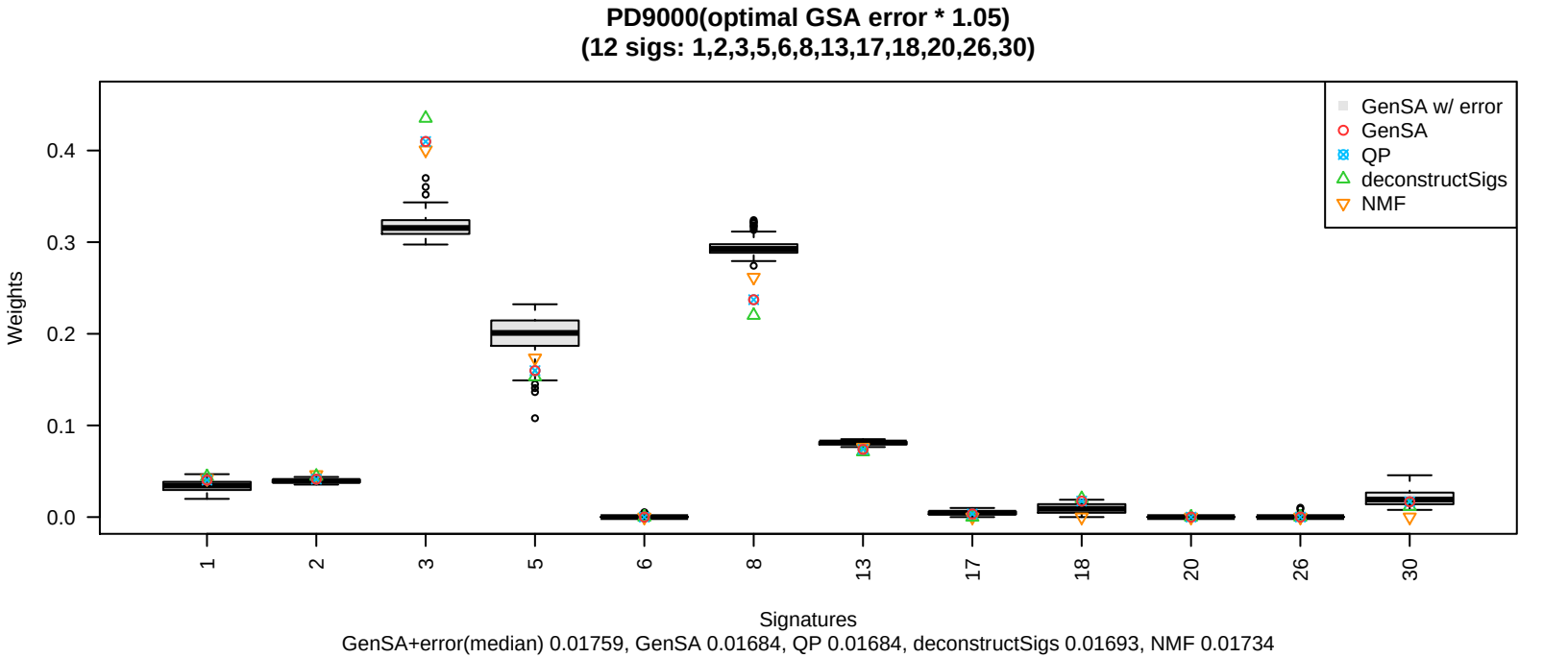

PD8995(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02173, GenSA 0.02095, QP 0.02095, deconstructSigs 0.02210, NMF 0.06833

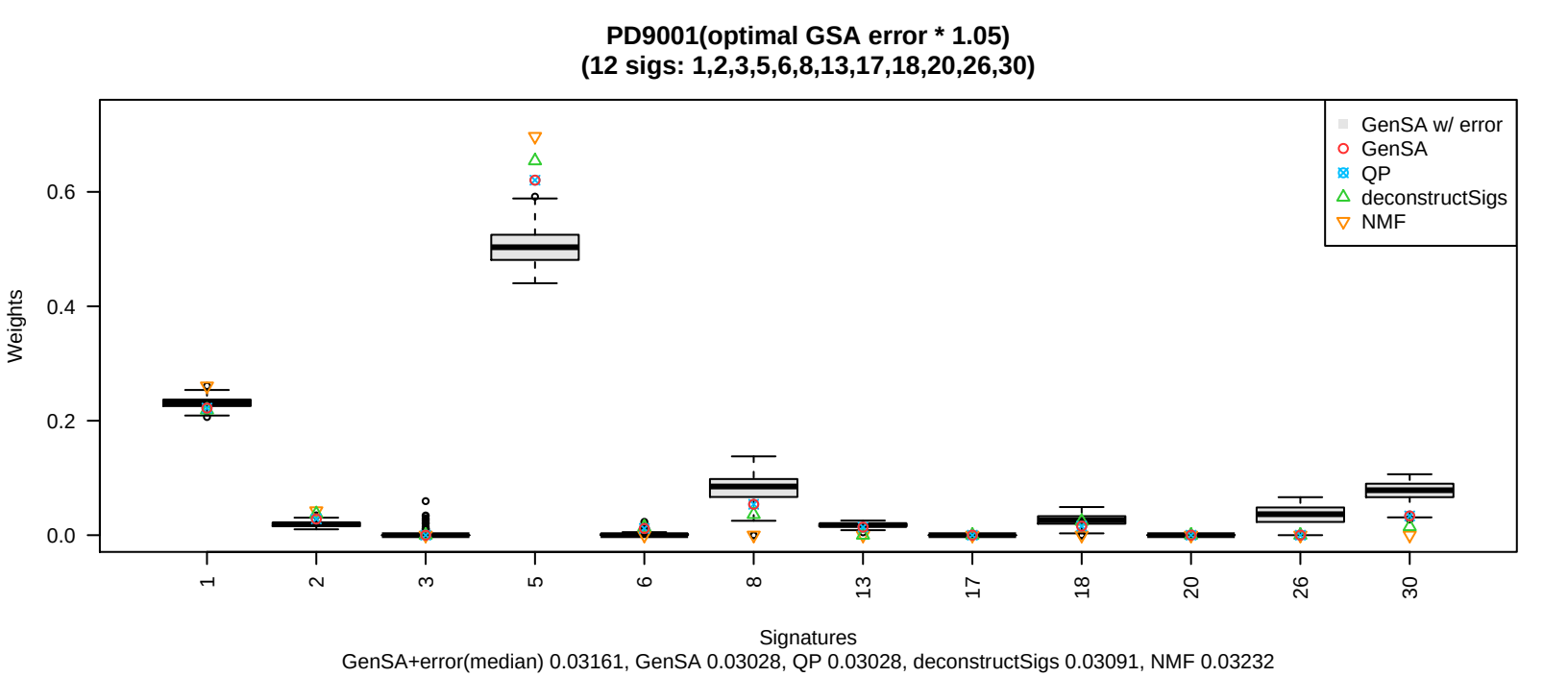

PD8996(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02991, GenSA 0.02869, QP 0.02869, deconstructSigs 0.03044, NMF 0.03250


PD8997(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02282, GenSA 0.02189, QP 0.02189, deconstructSigs 0.02193, NMF 0.02732

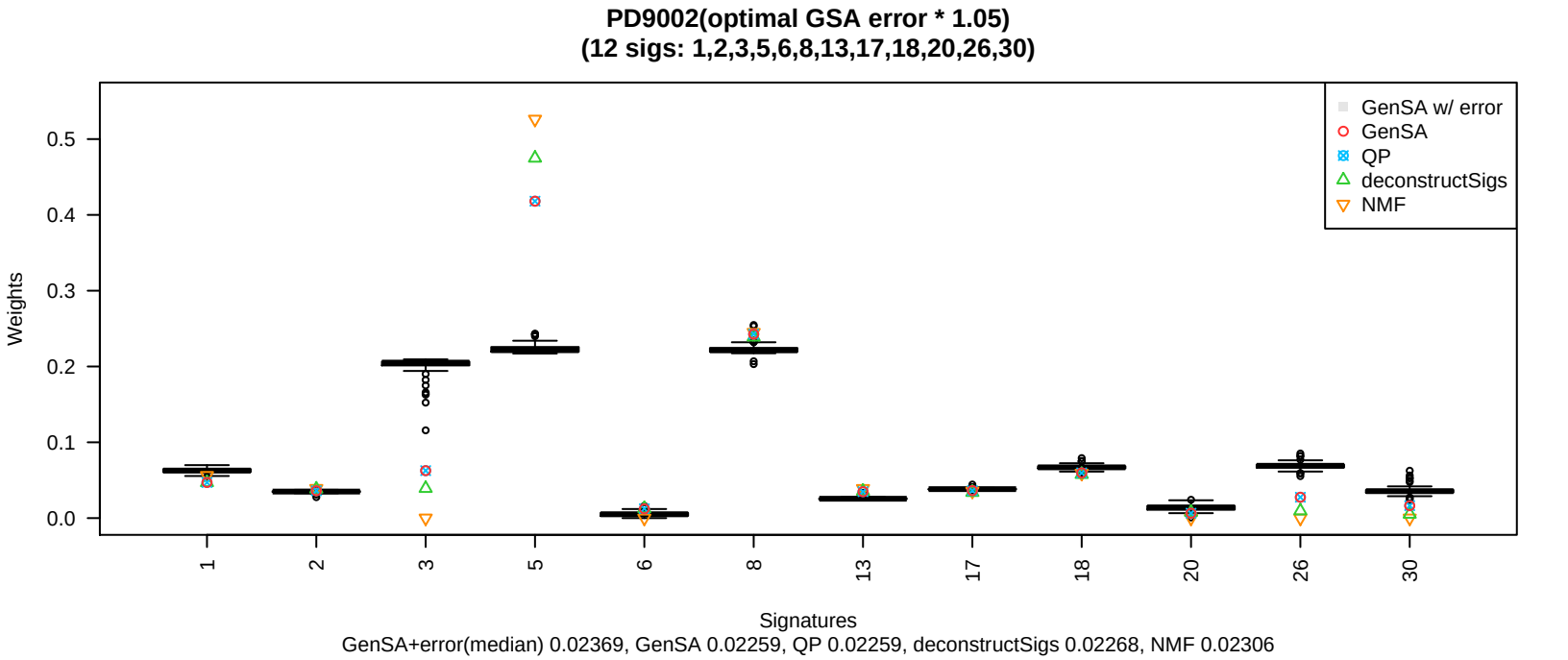

PD8998(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01536, GenSA 0.01472, QP 0.01472, deconstructSigs 0.01513, NMF 0.06901


PD8999(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03263, GenSA 0.03131, QP 0.03131, deconstructSigs 0.03161, NMF 0.03211

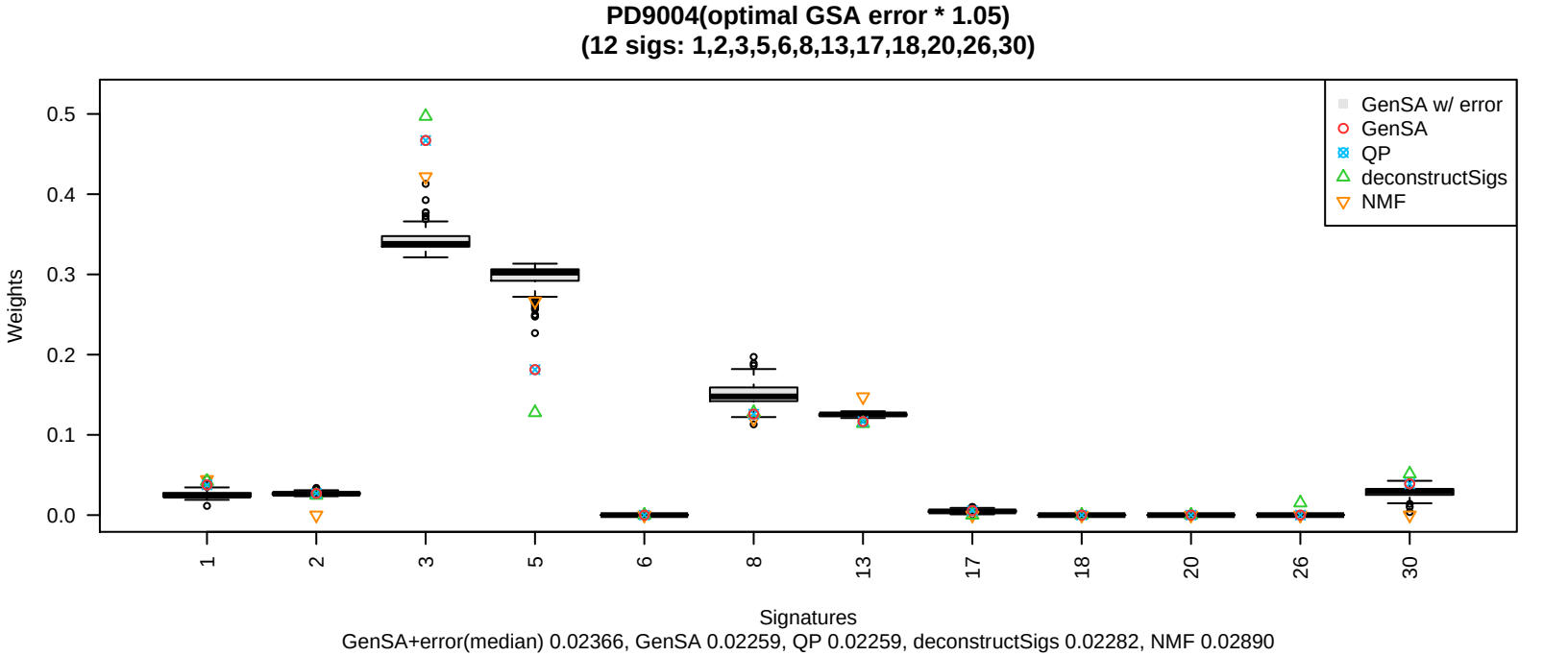

PD9000(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01759, GenSA 0.01684, QP 0.01684, deconstructSigs 0.01693, NMF 0.01734



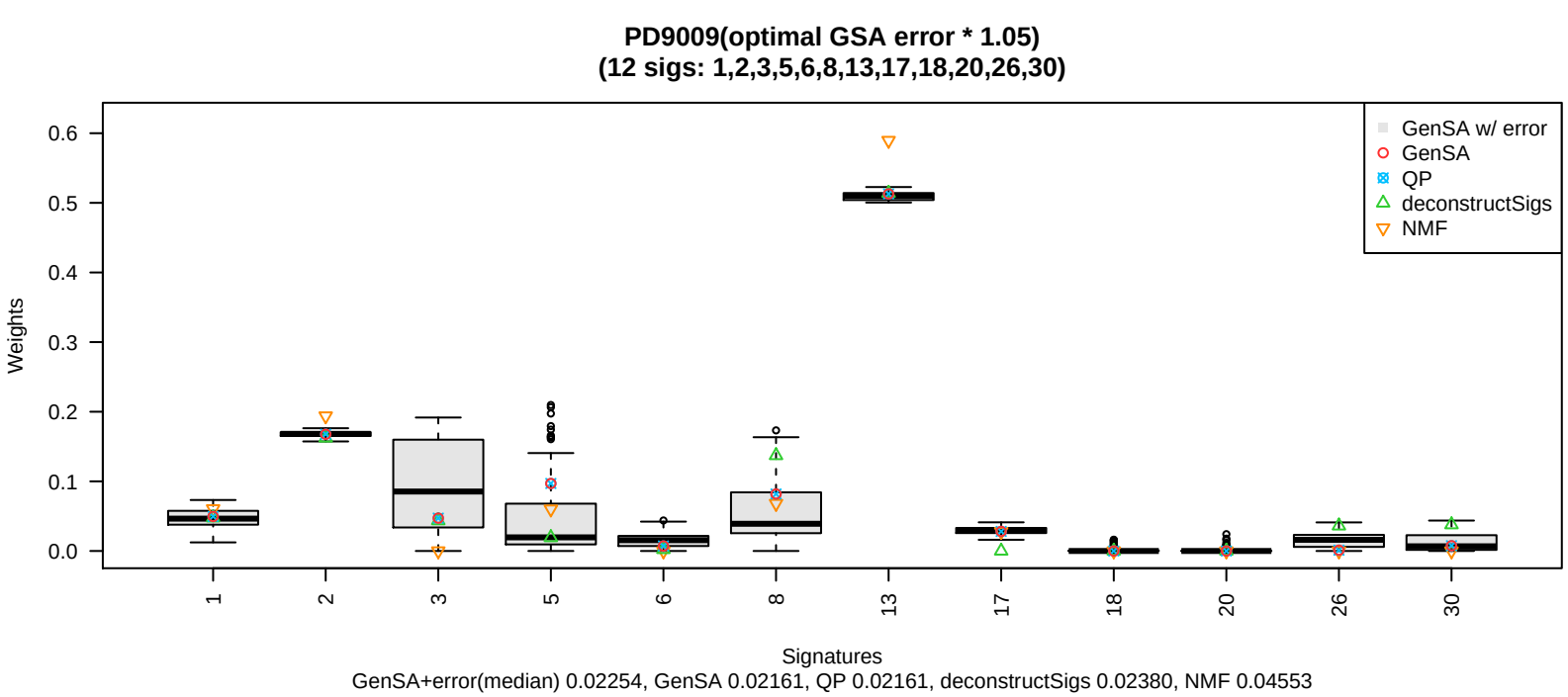
GenSA+error(median) 0.03161, GenSA 0.03028, QP 0.03028, deconstructSigs 0.03091, NMF 0.03232

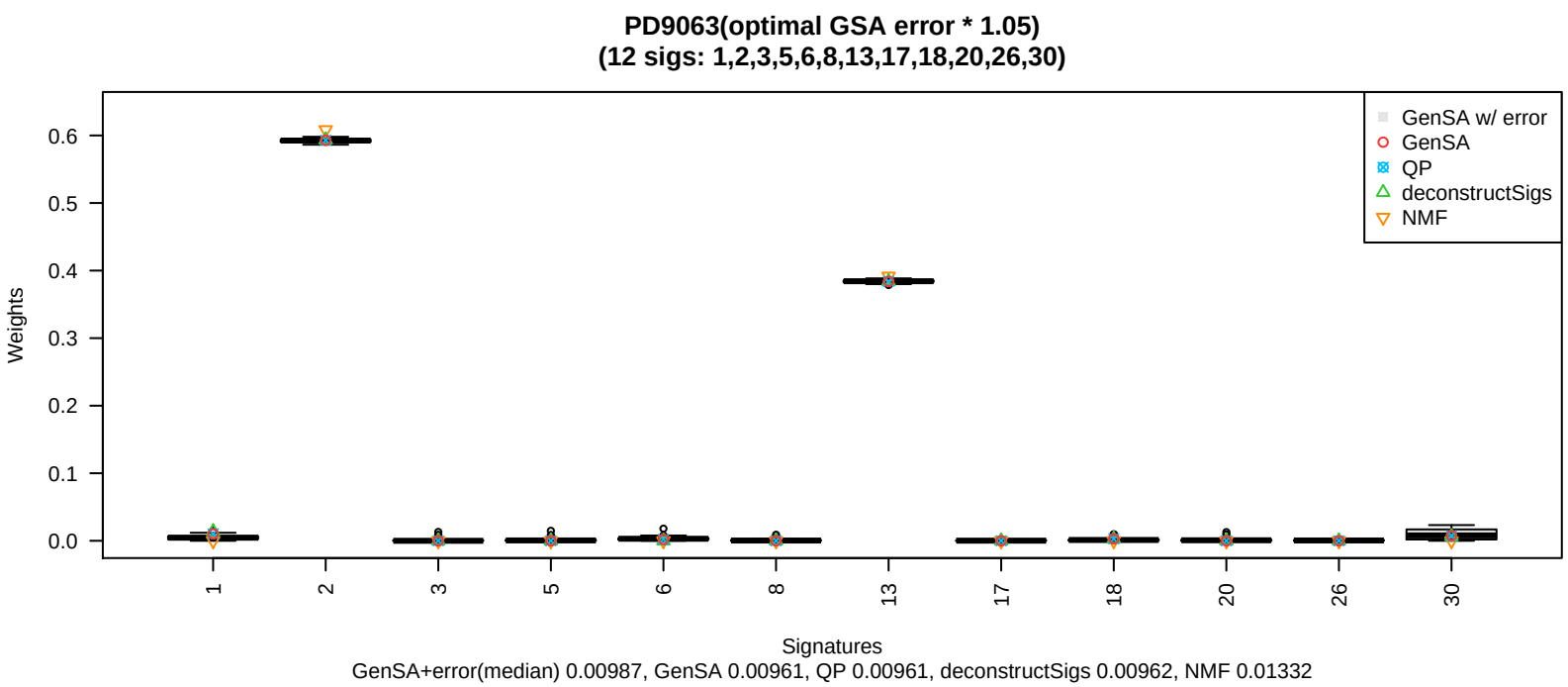


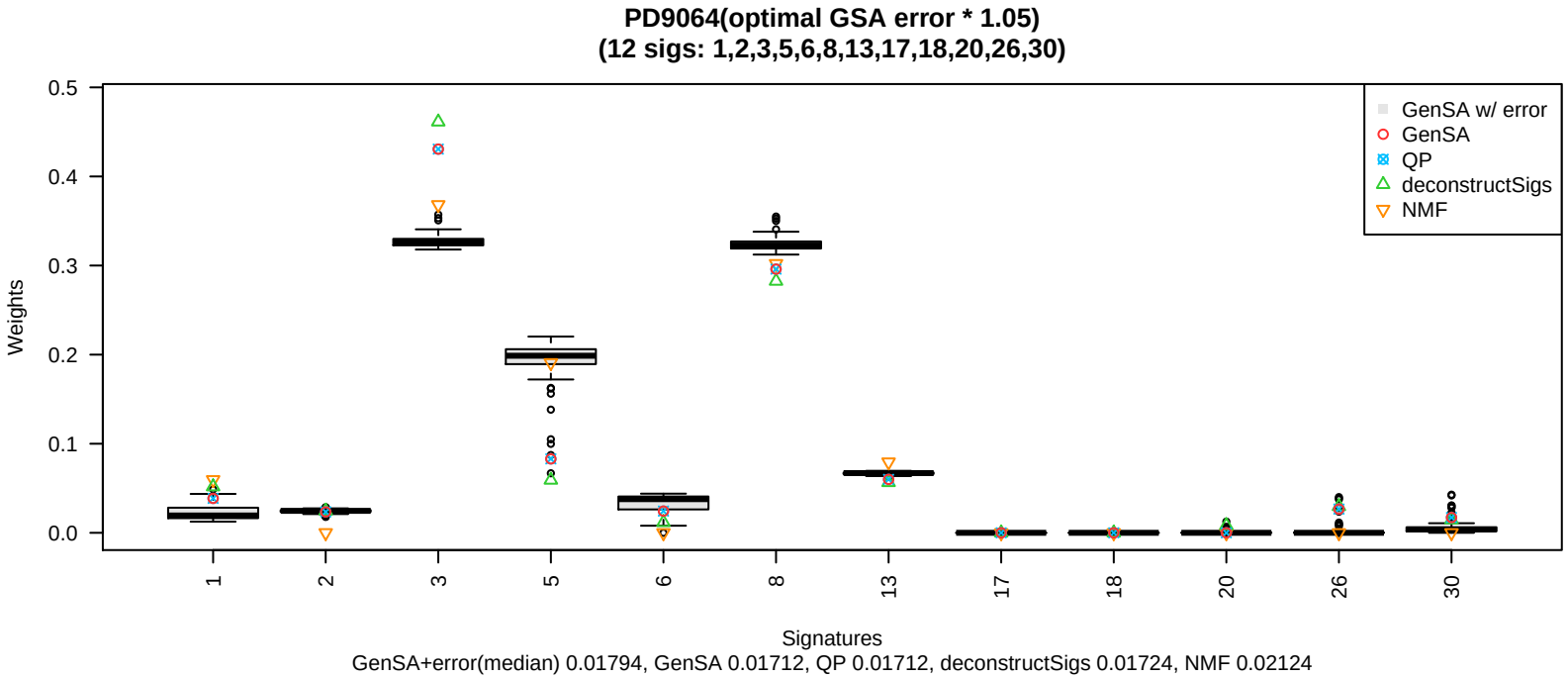
GenSA+error(median) 0.02369, GenSA 0.02259, QP 0.02259, deconstructSigs 0.02268, NMF 0.02306

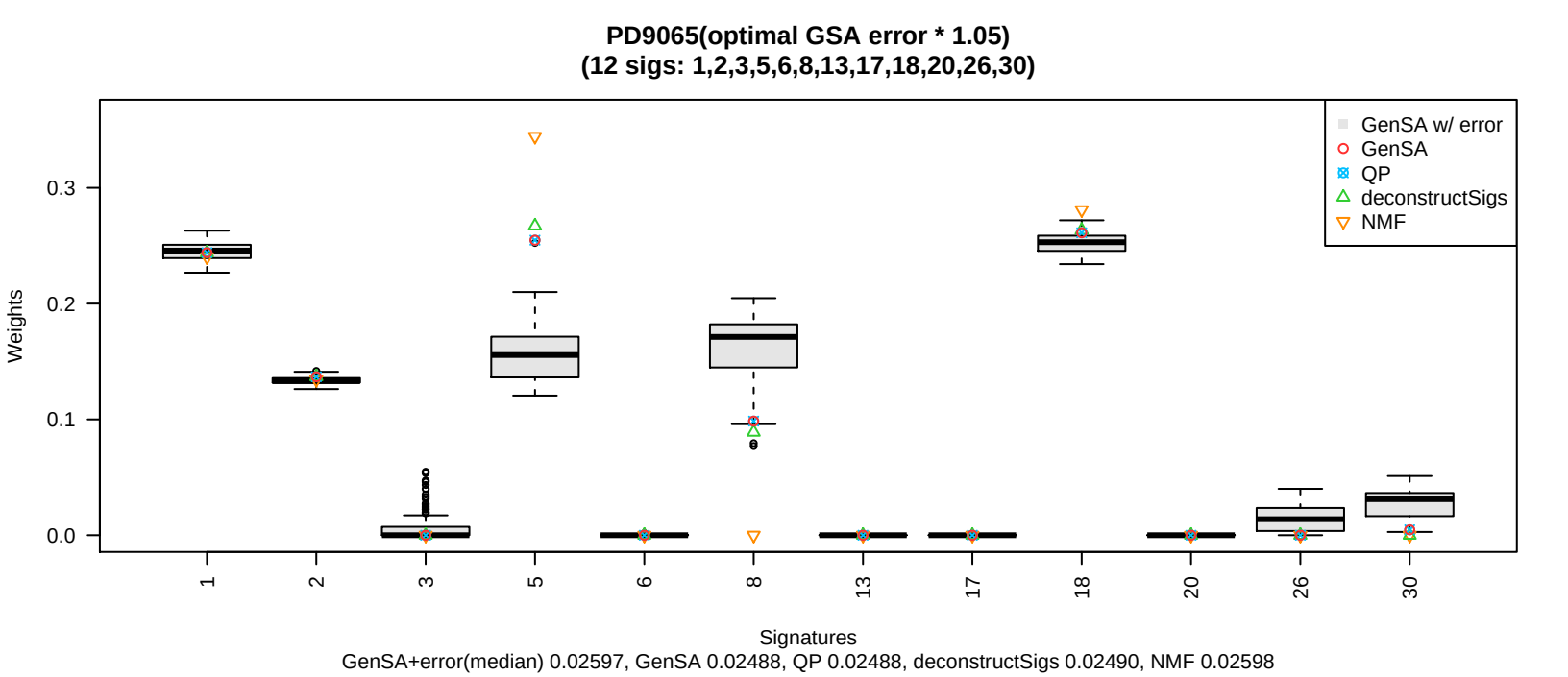


GenSA+error(median) 0.02366, GenSA 0.02259, QP 0.02259, deconstructSigs 0.02282, NMF 0.02890

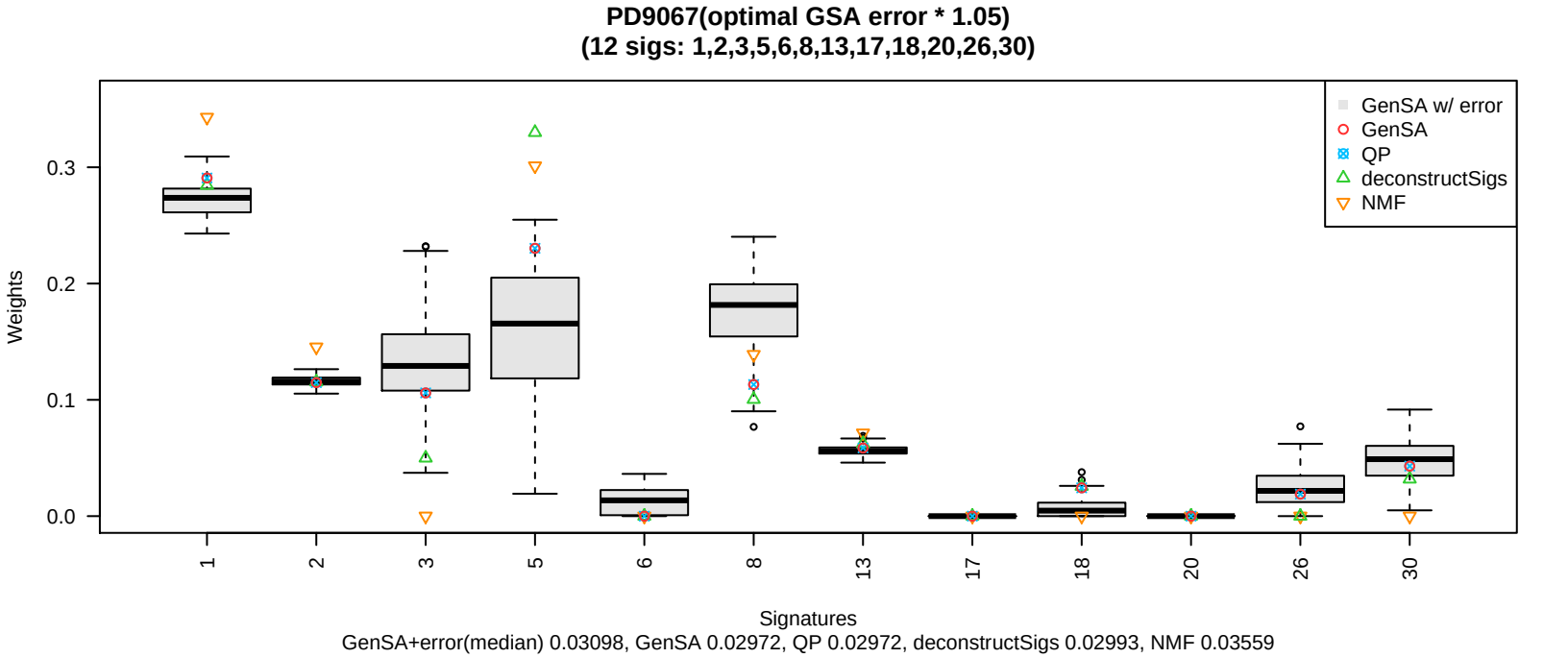

PD9009(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02254, GenSA 0.02161, QP 0.02161, deconstructSigs 0.02380, NMF 0.04553


PD9063(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.00987, GenSA 0.00961, QP 0.00961, deconstructSigs 0.00962, NMF 0.01332

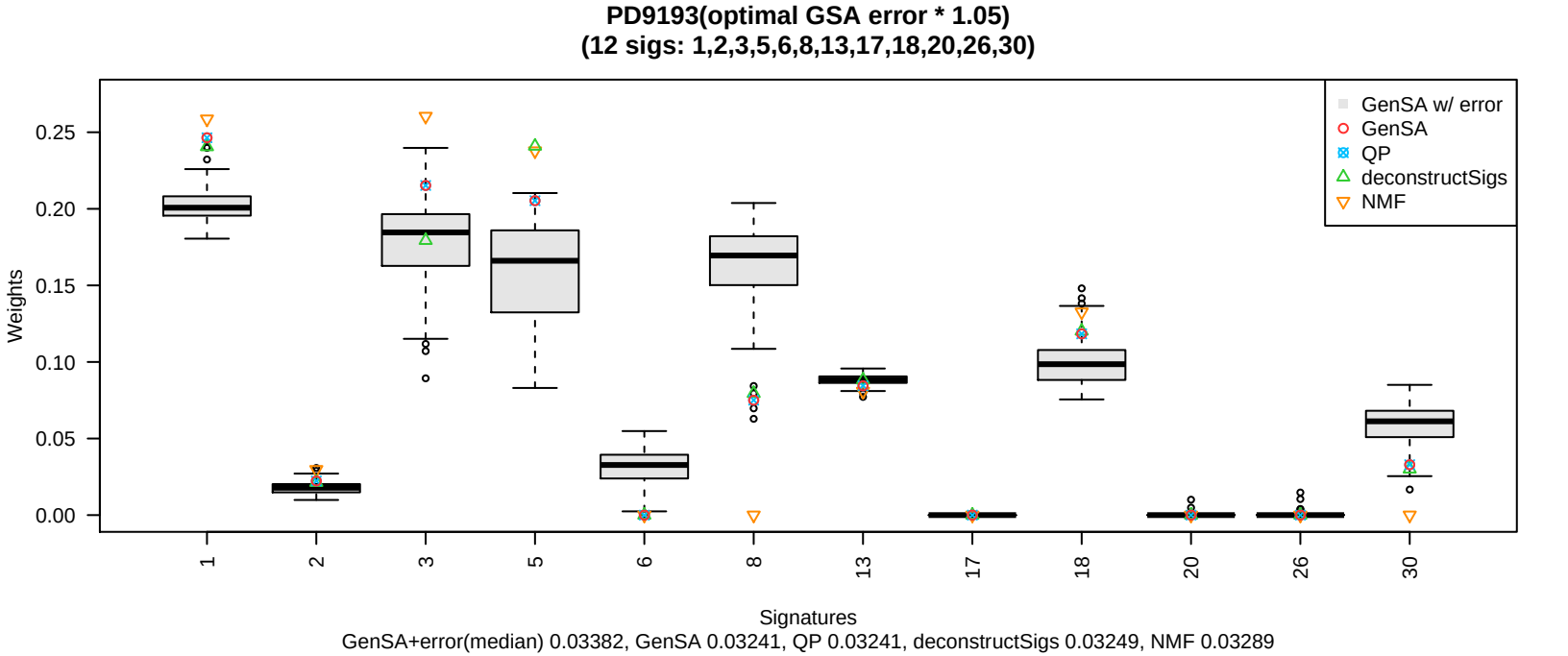

PD9064(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01794, GenSA 0.01712, QP 0.01712, deconstructSigs 0.01724, NMF 0.02124



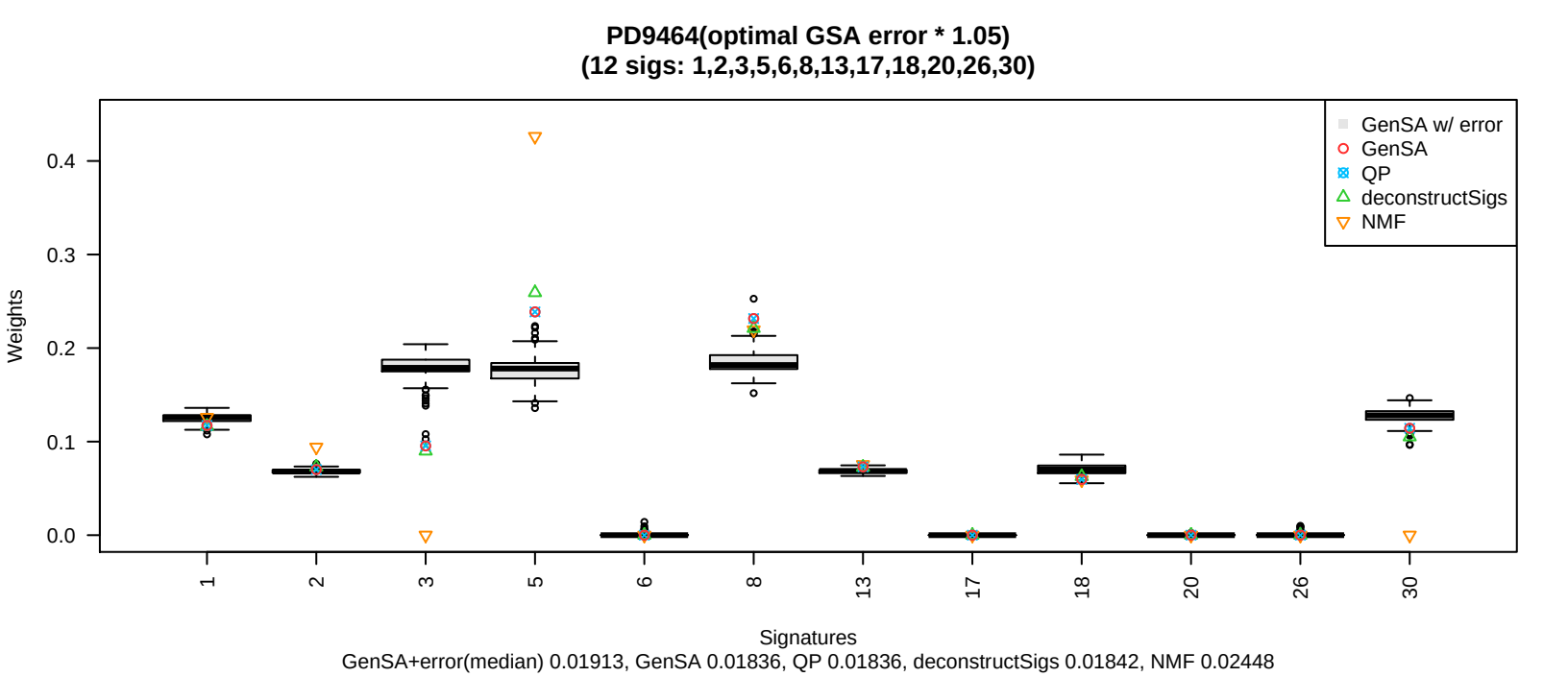
GenSA+error(median) 0.02597, GenSA 0.02488, QP 0.02488, deconstructSigs 0.02490, NMF 0.02598

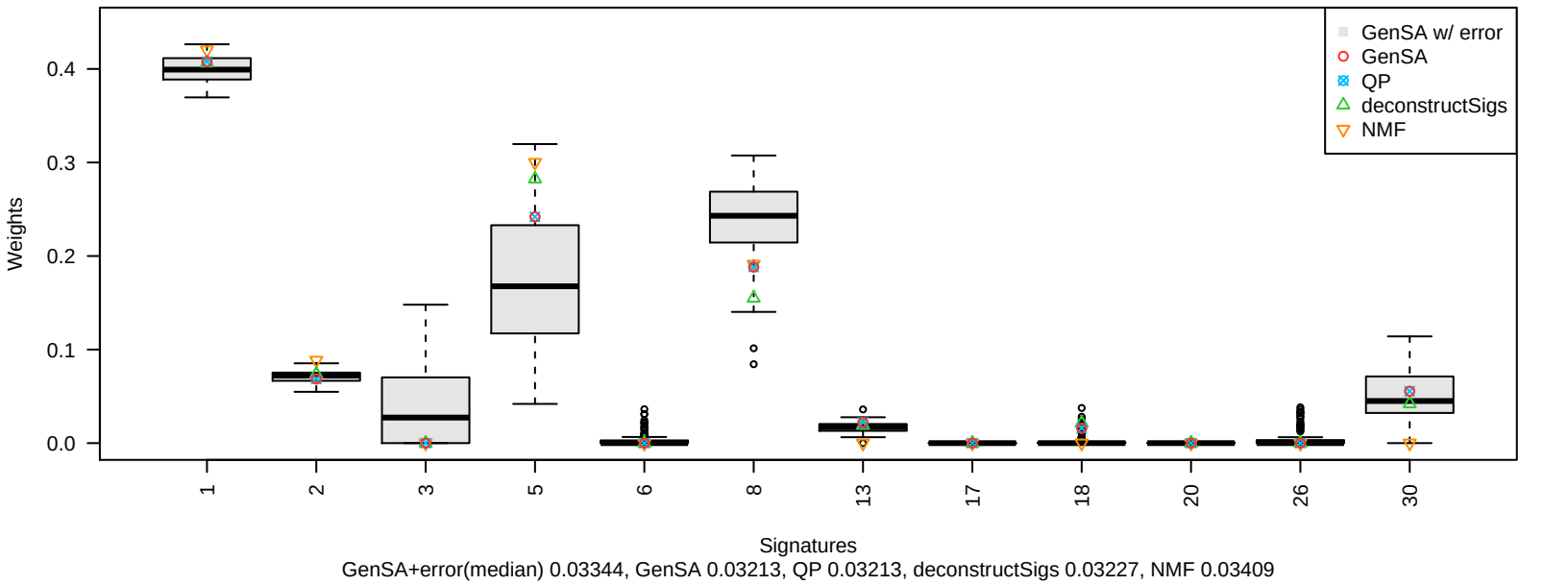


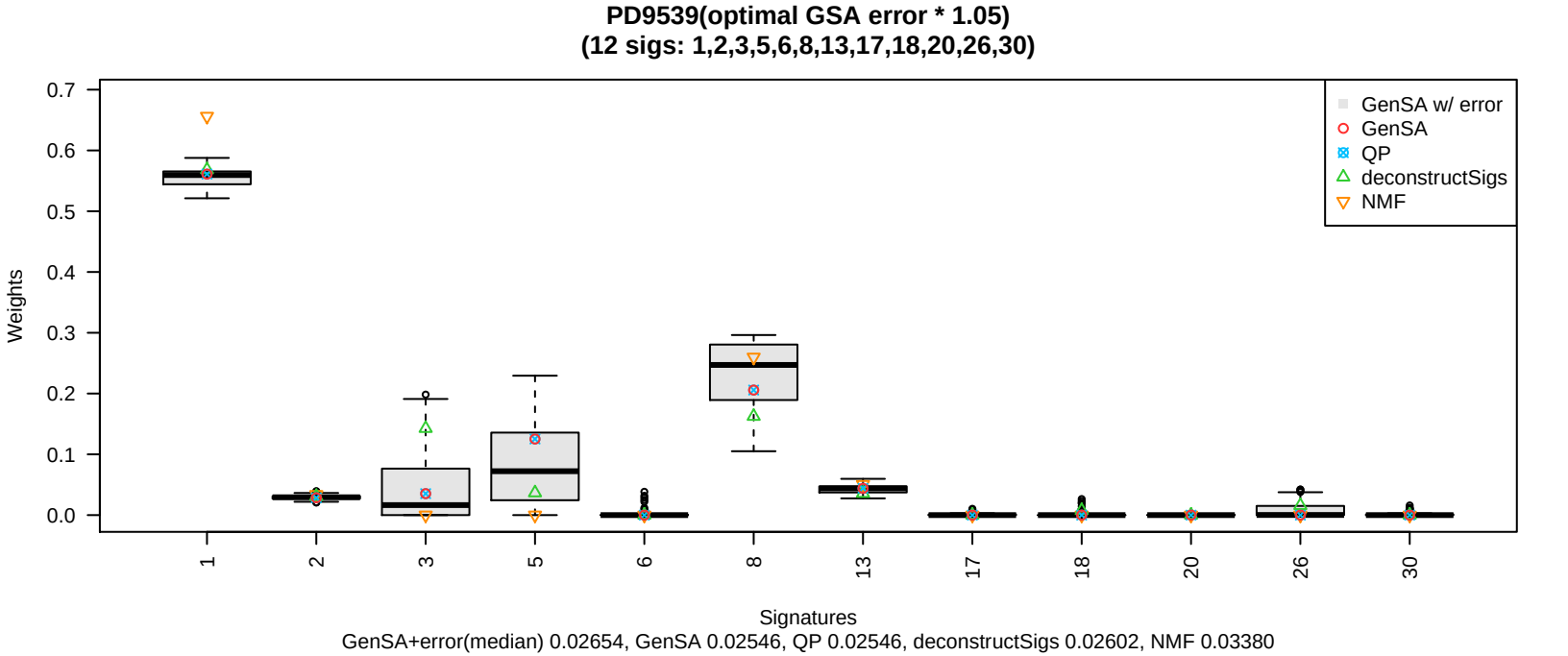
GenSA+error(median) 0.03098, GenSA 0.02972, QP 0.02972, deconstructSigs 0.02993, NMF 0.03559

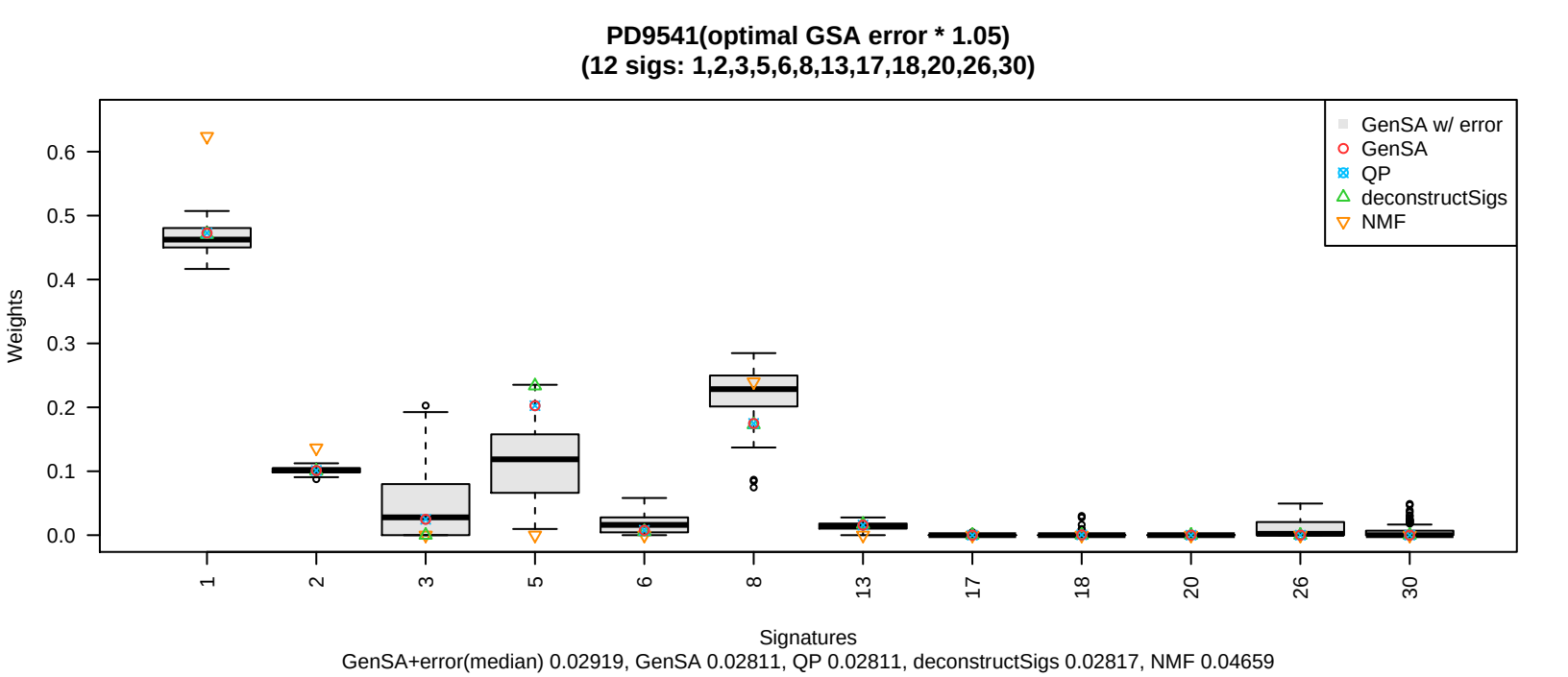


GenSA+error(median) 0.03382, GenSA 0.03241, QP 0.03241, deconstructSigs 0.03249, NMF 0.03289

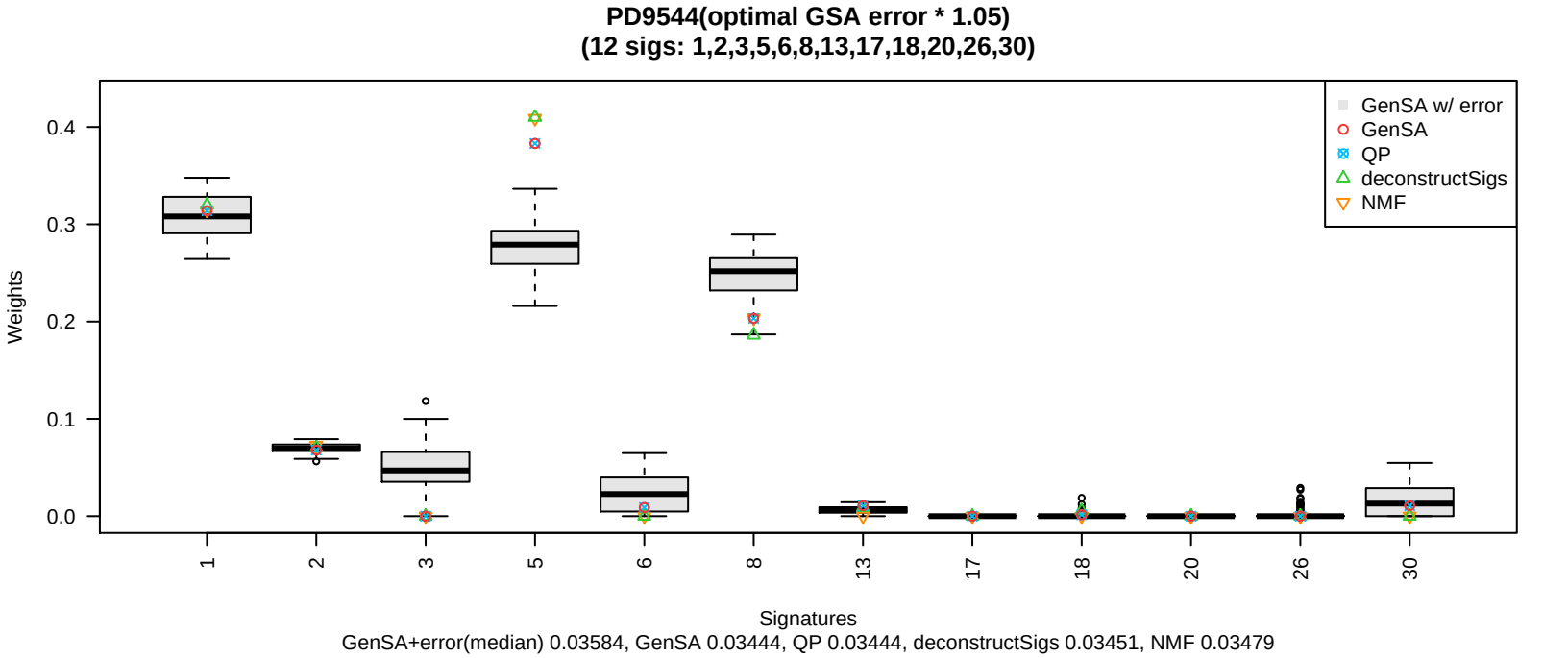

PD9464(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01913, GenSA 0.01836, QP 0.01836, deconstructSigs 0.01842, NMF 0.02448


PD9467(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03344, GenSA 0.03213, QP 0.03213, deconstructSigs 0.03227, NMF 0.03409

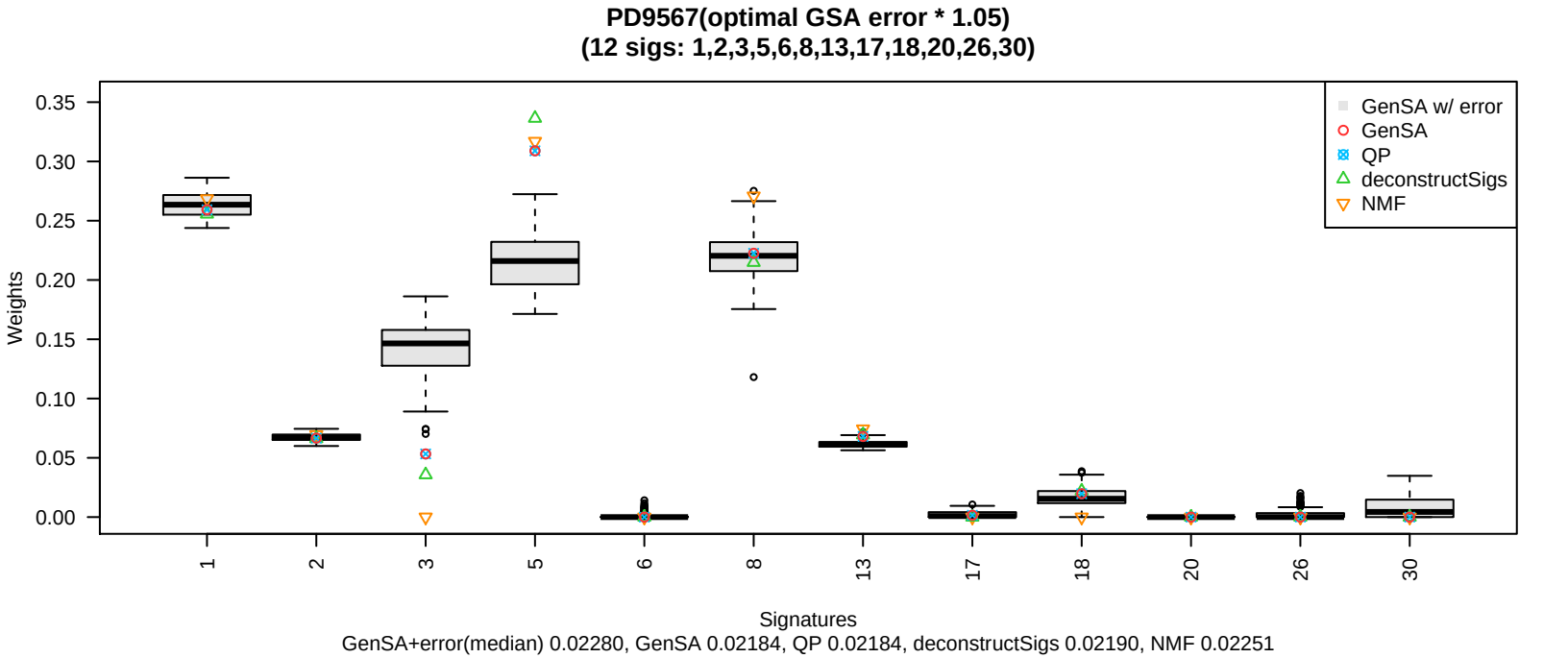

PD9539(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02654, GenSA 0.02546, QP 0.02546, deconstructSigs 0.02602, NMF 0.03380



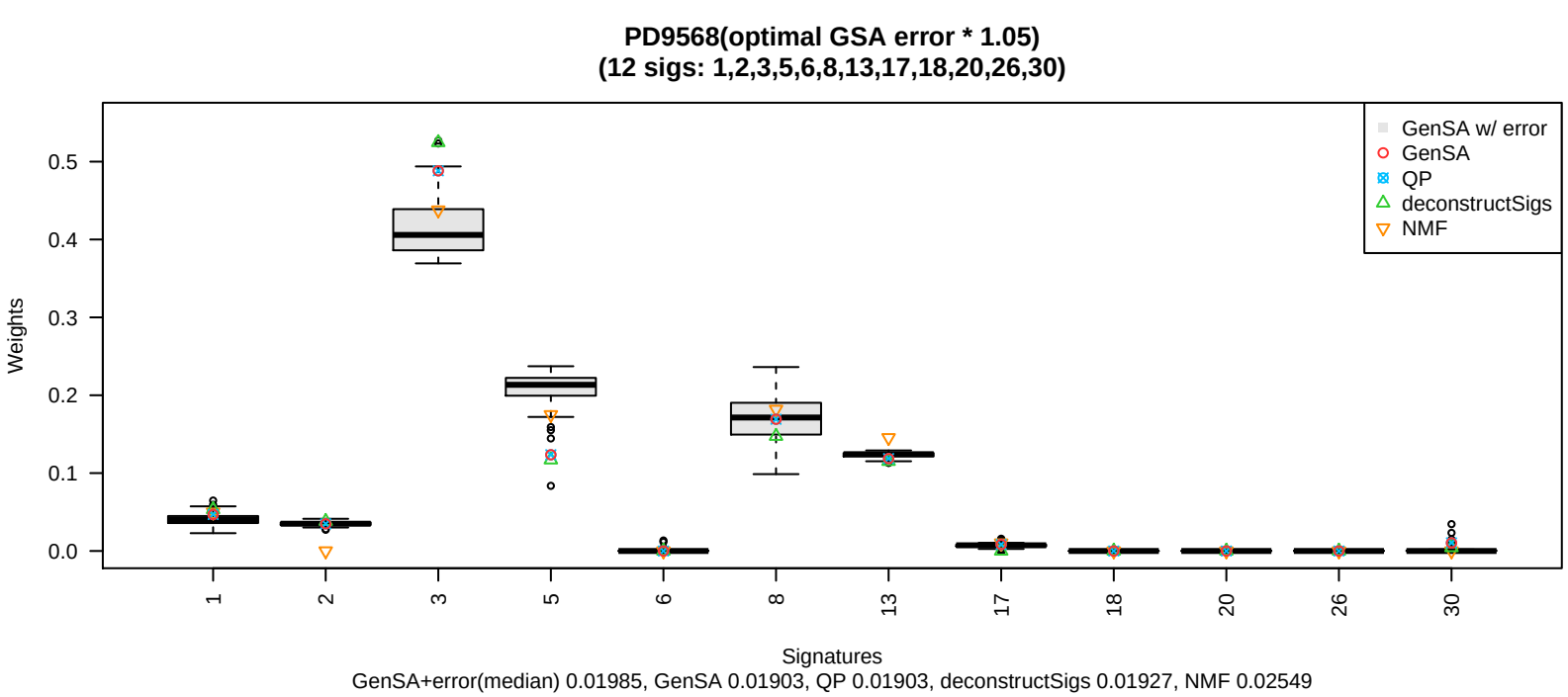
GenSA+error(median) 0.02919, GenSA 0.02811, QP 0.02811, deconstructSigs 0.02817, NMF 0.04659



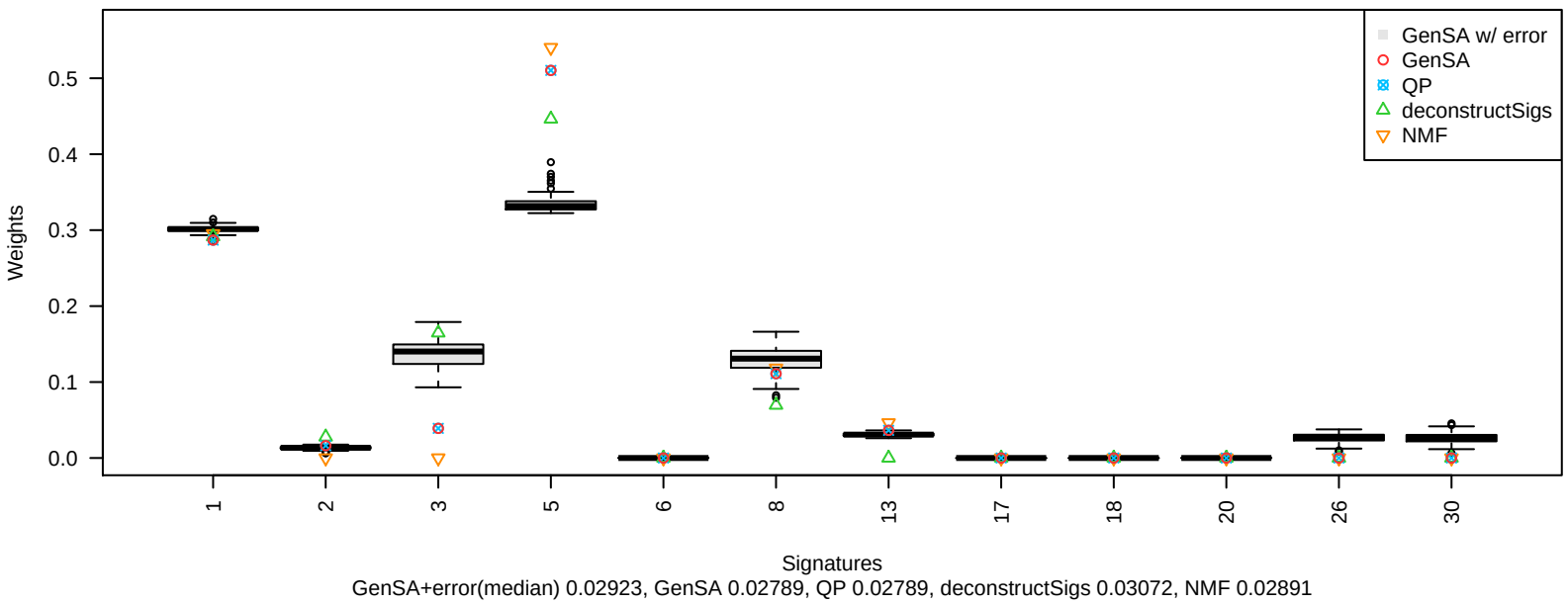
GenSA+error(median) 0.03584, GenSA 0.03444, QP 0.03444, deconstructSigs 0.03451, NMF 0.03479



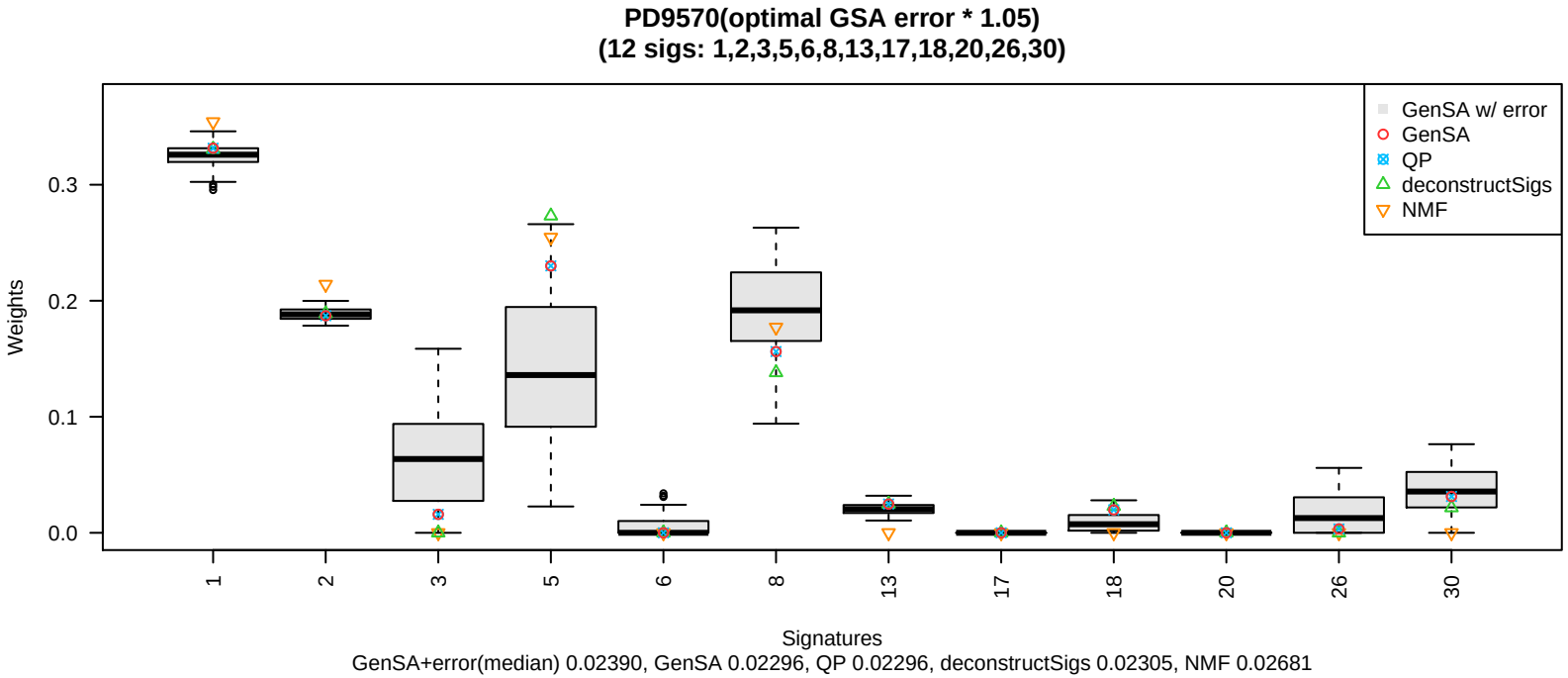
GenSA+error(median) 0.02280, GenSA 0.02184, QP 0.02184, deconstructSigs 0.02190, NMF 0.02251



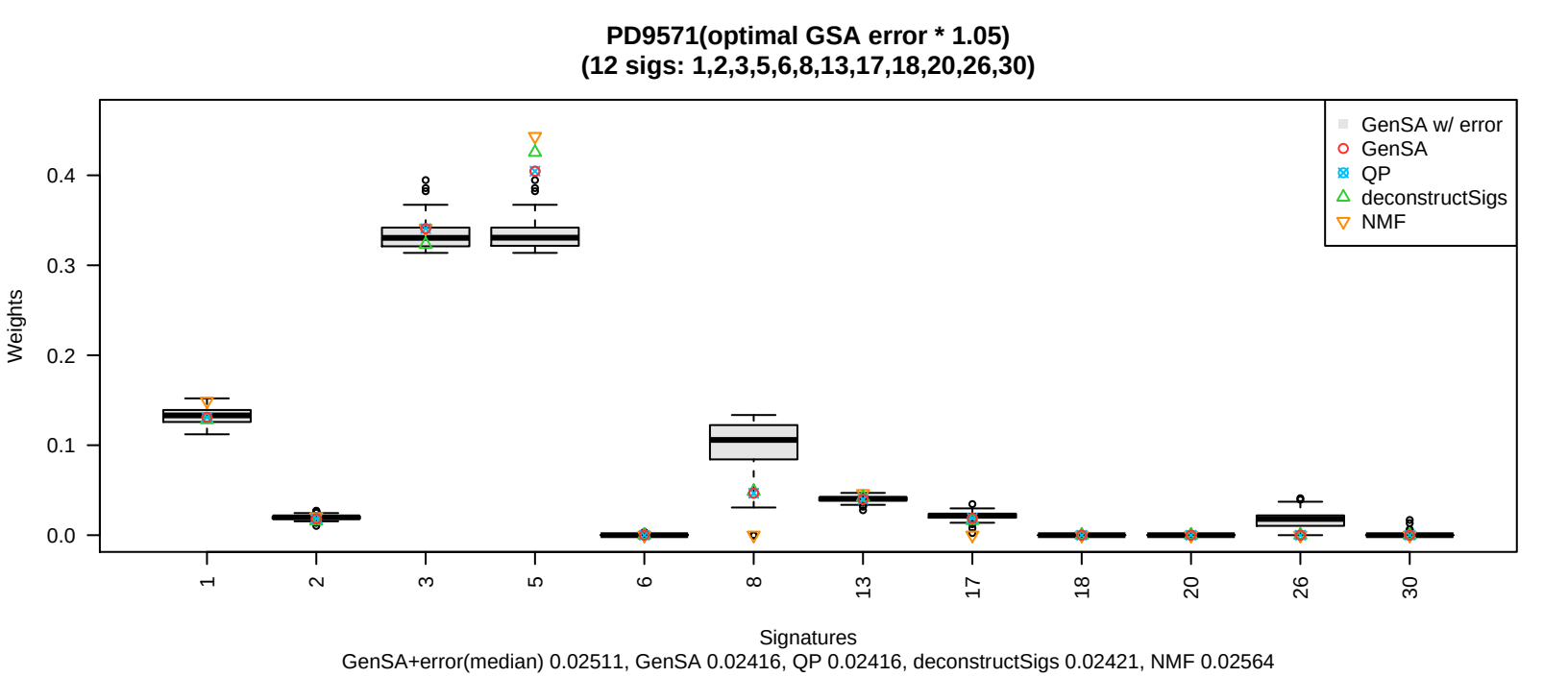
GenSA+error(median) 0.01985, GenSA 0.01903, QP 0.01903, deconstructSigs 0.01927, NMF 0.02549

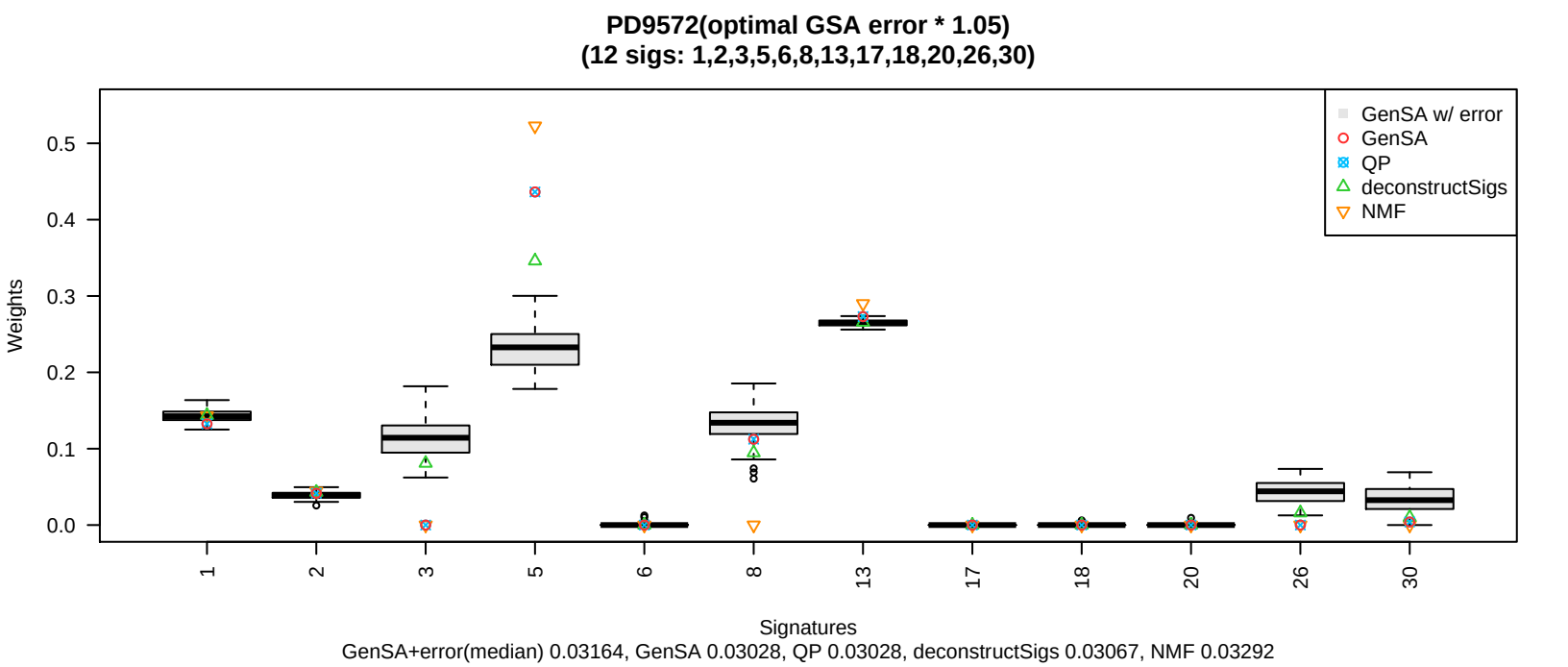


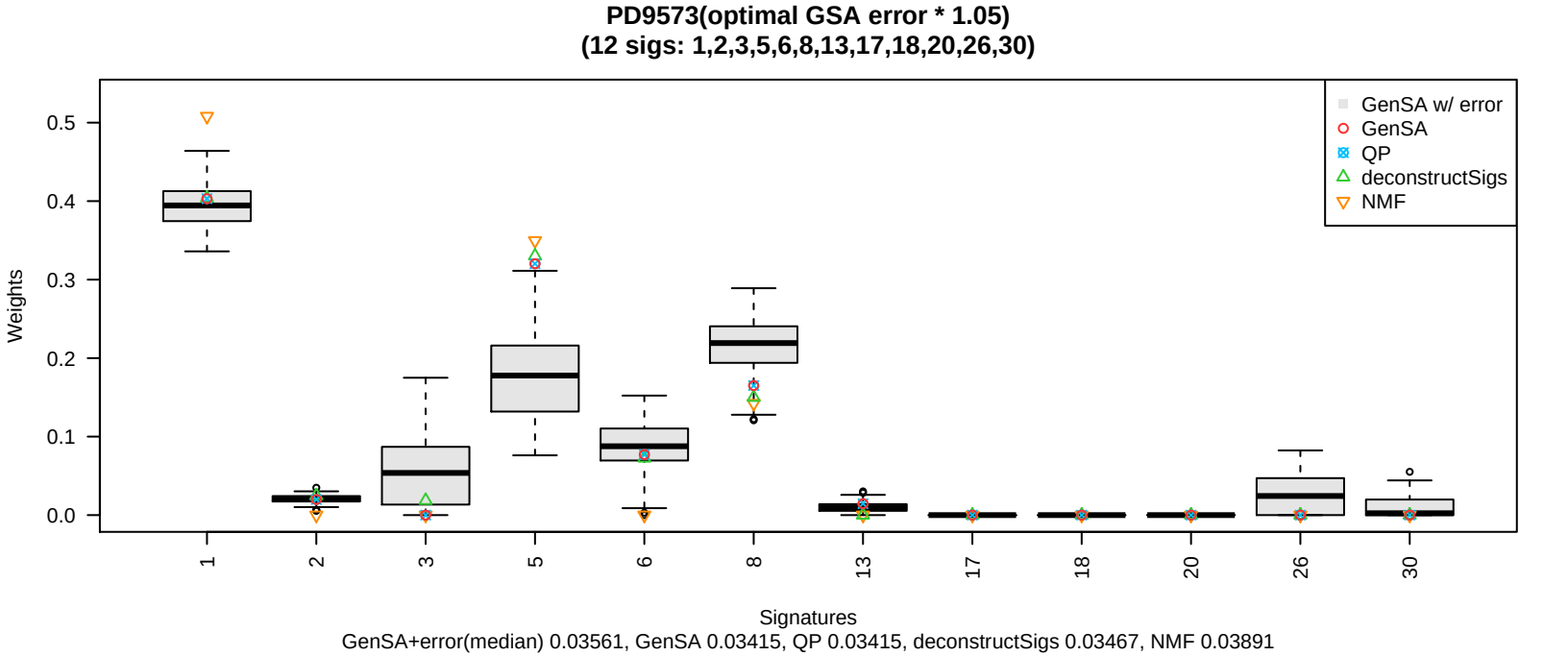
GenSA+error(median) 0.02923, GenSA 0.02789, QP 0.02789, deconstructSigs 0.03072, NMF 0.02891

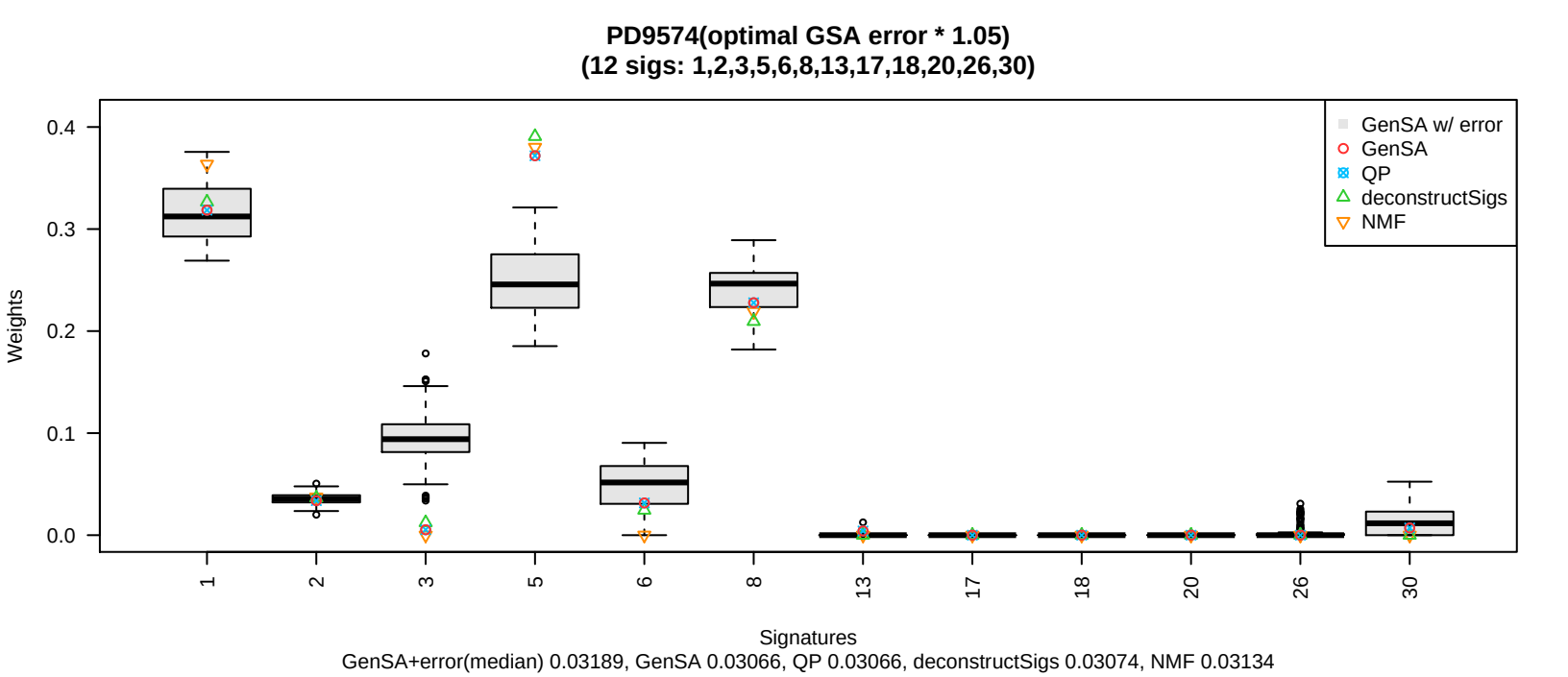


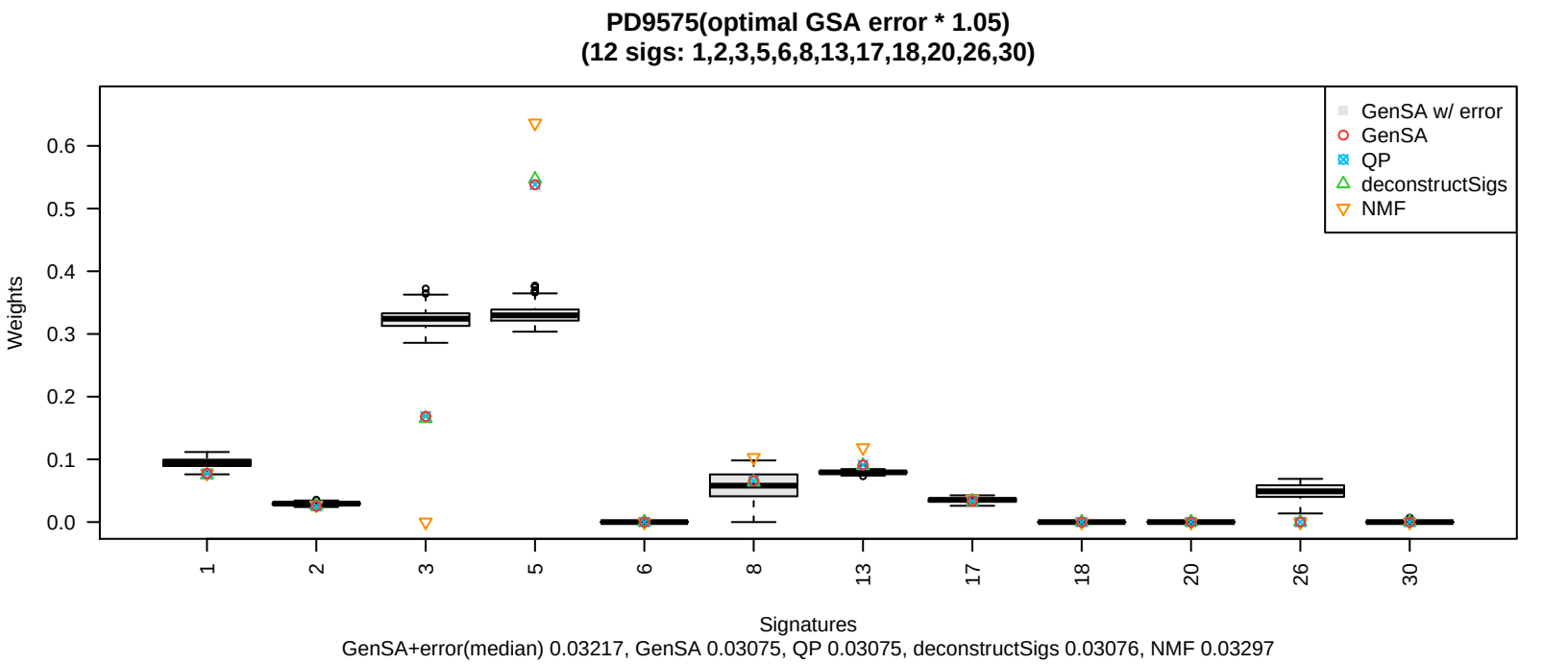
GenSA+error(median) 0.02390, GenSA 0.02296, QP 0.02296, deconstructSigs 0.02305, NMF 0.02681

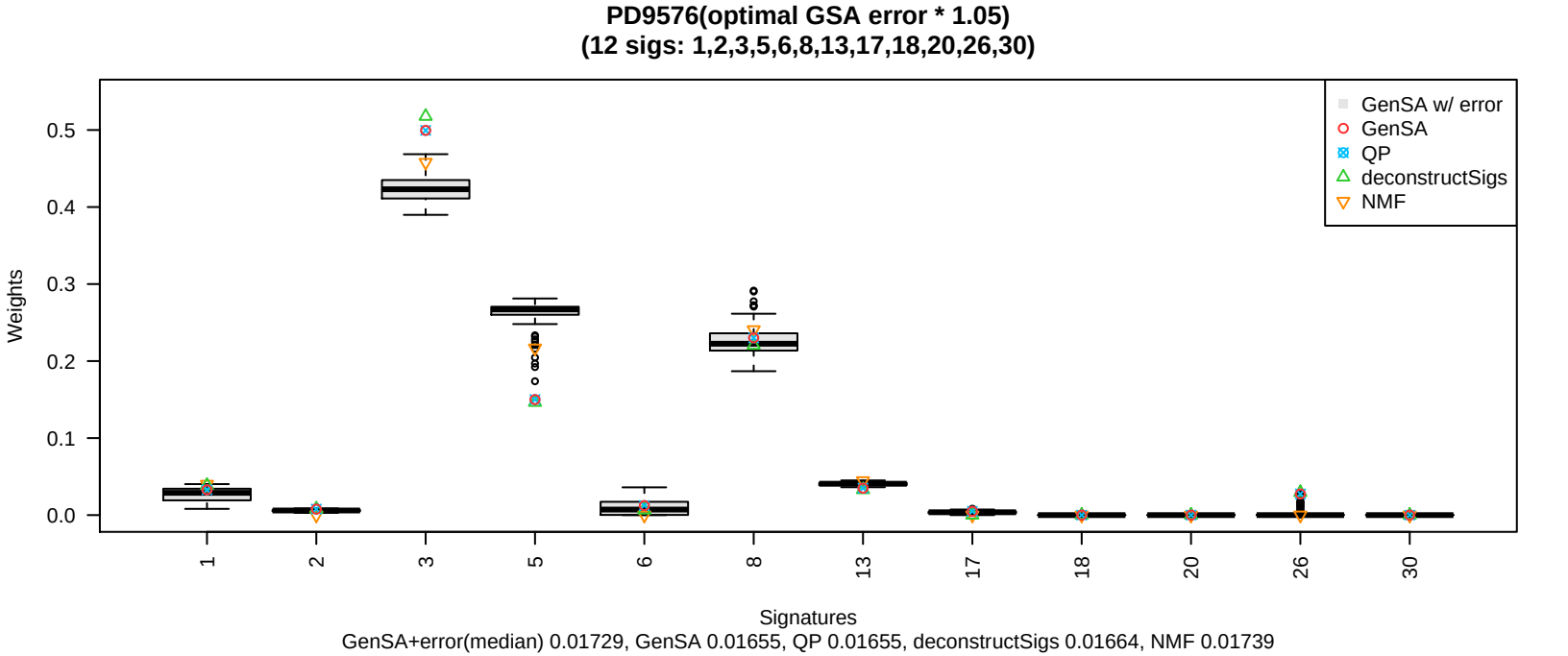

PD9571(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02511, GenSA 0.02416, QP 0.02416, deconstructSigs 0.02421, NMF 0.02564

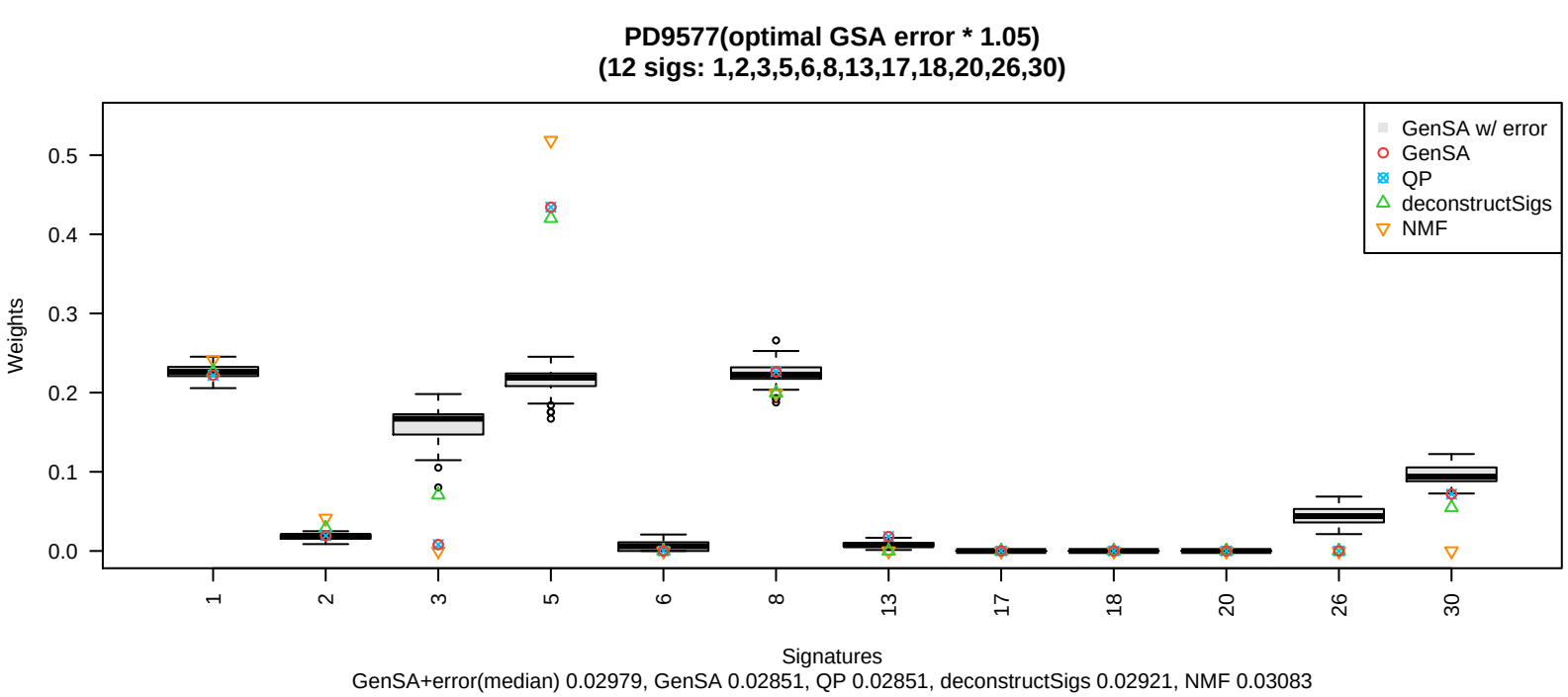

PD9572(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03164, GenSA 0.03028, QP 0.03028, deconstructSigs 0.03067, NMF 0.03292

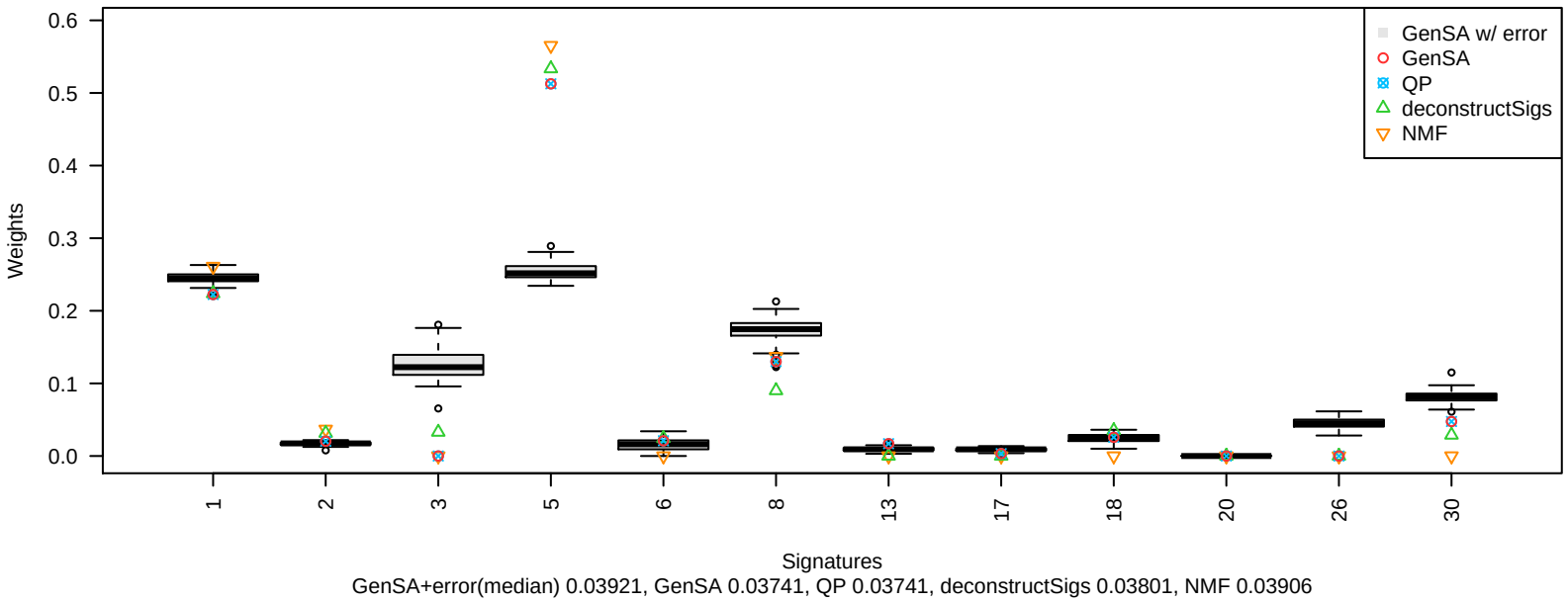

PD9573(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03561, GenSA 0.03415, QP 0.03415, deconstructSigs 0.03467, NMF 0.03891

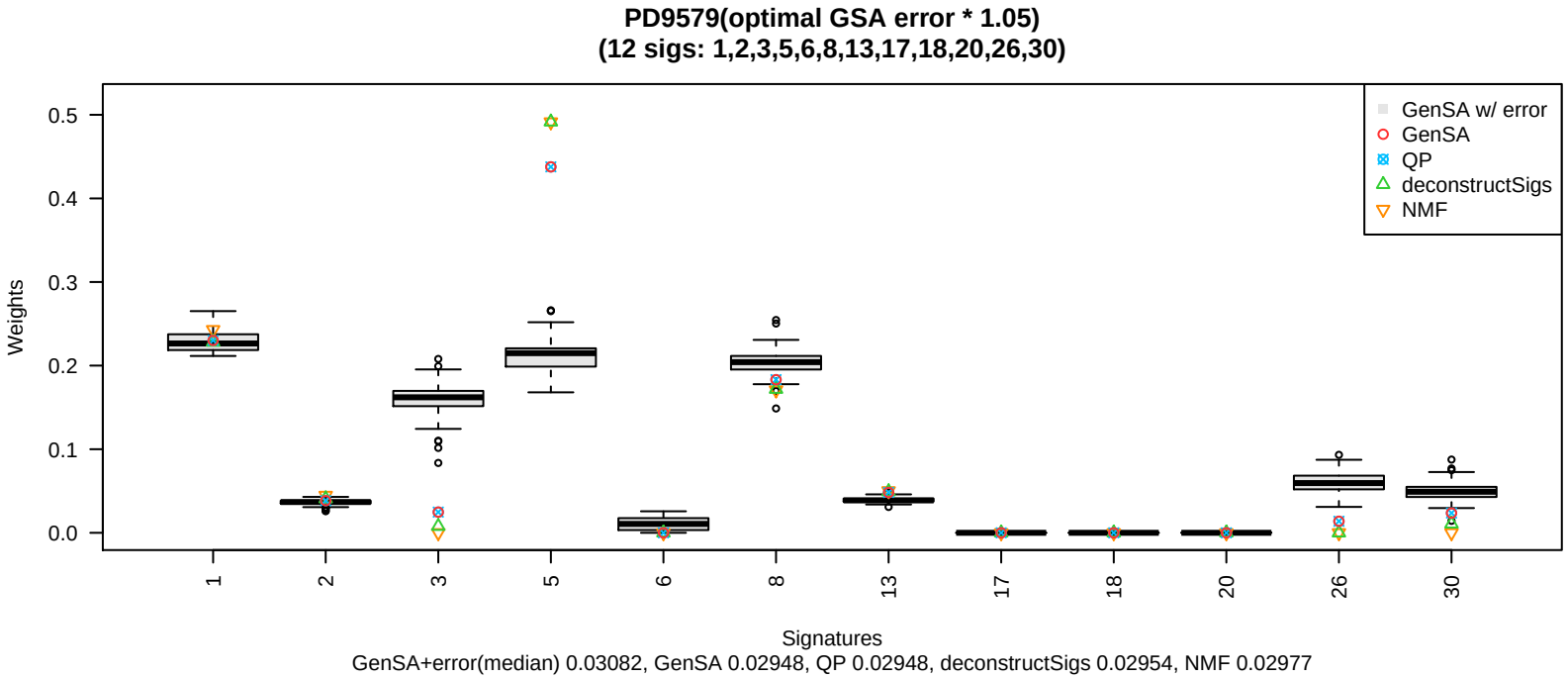

PD9574(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03189, GenSA 0.03066, QP 0.03066, deconstructSigs 0.03074, NMF 0.03134

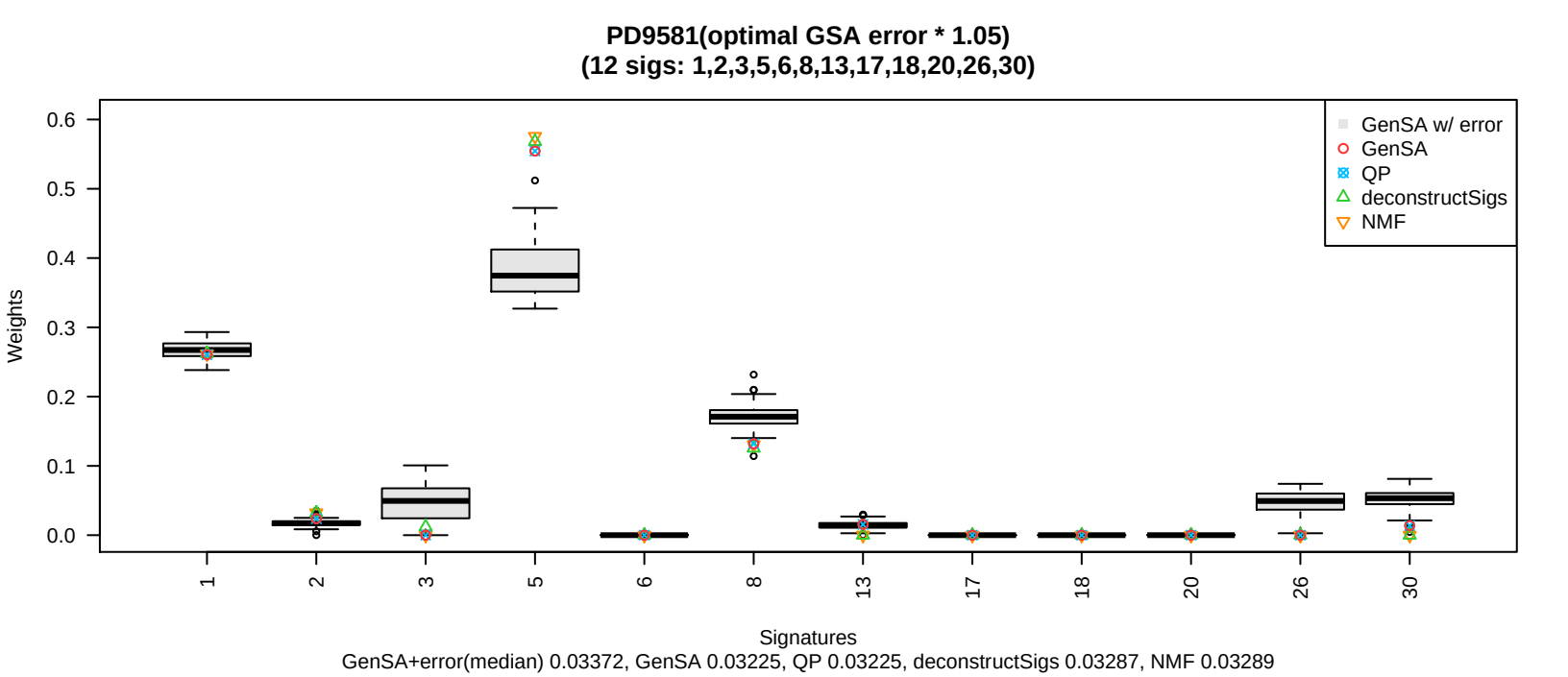

PD9575(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03217, GenSA 0.03075, QP 0.03075, deconstructSigs 0.03076, NMF 0.03297


PD9576(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01729, GenSA 0.01655, QP 0.01655, deconstructSigs 0.01664, NMF 0.01739

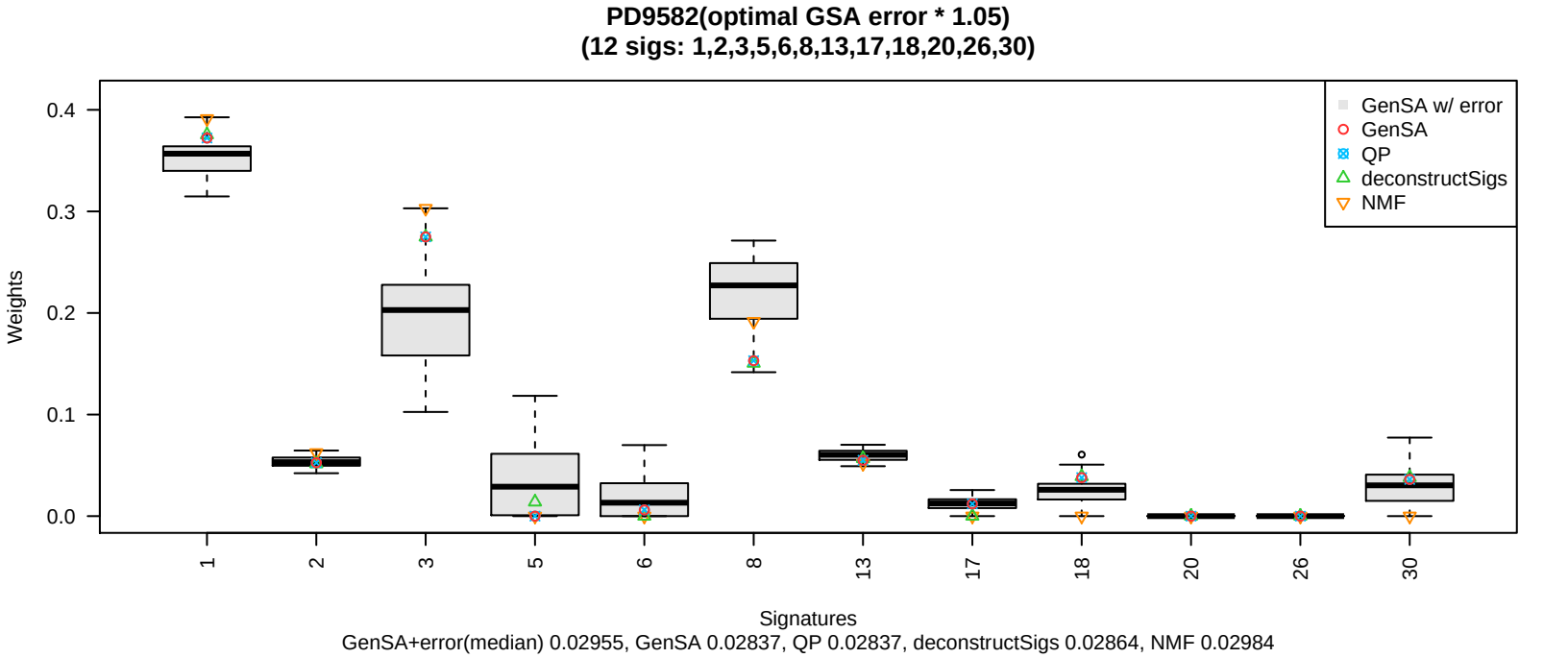

PD9577(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02979, GenSA 0.02851, QP 0.02851, deconstructSigs 0.02921, NMF 0.03083


PD9578(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03921, GenSA 0.03741, QP 0.03741, deconstructSigs 0.03801, NMF 0.03906

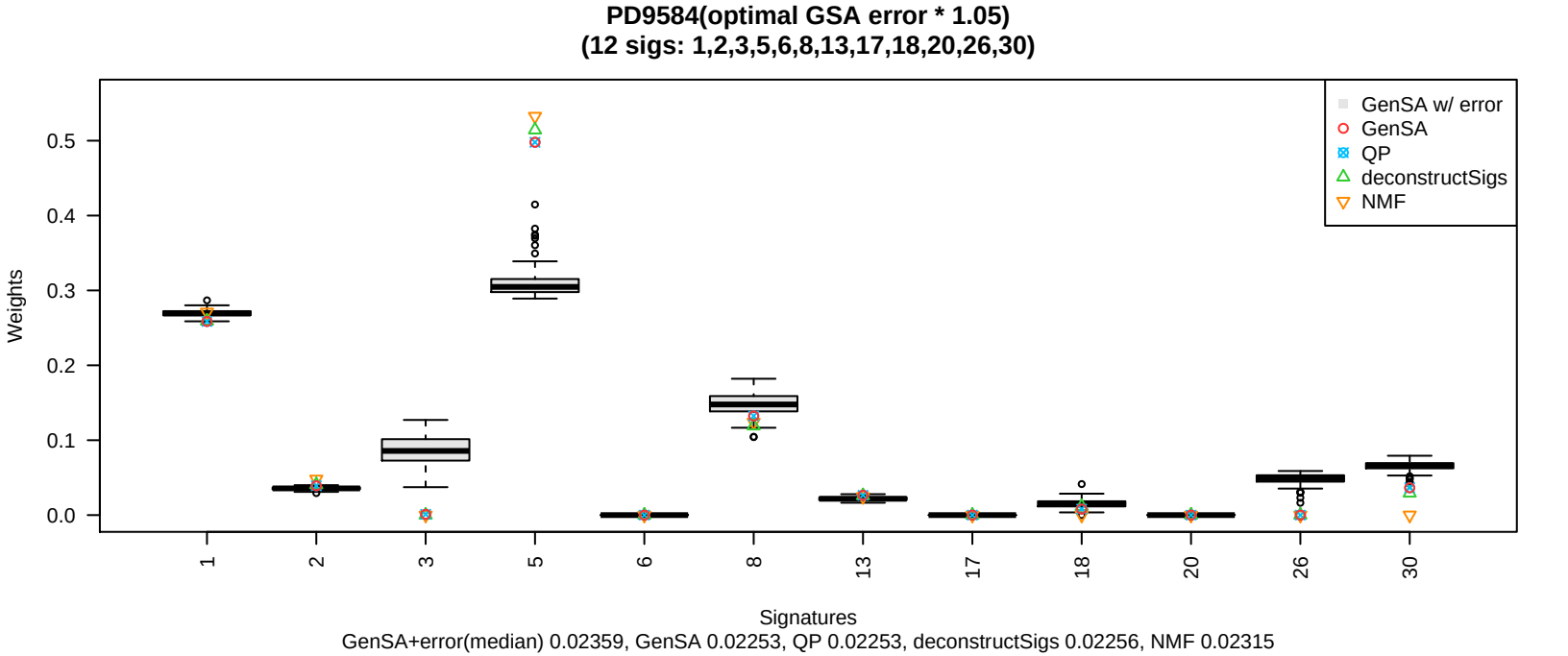

PD9579(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.03082, GenSA 0.02948, QP 0.02948, deconstructSigs 0.02954, NMF 0.02977



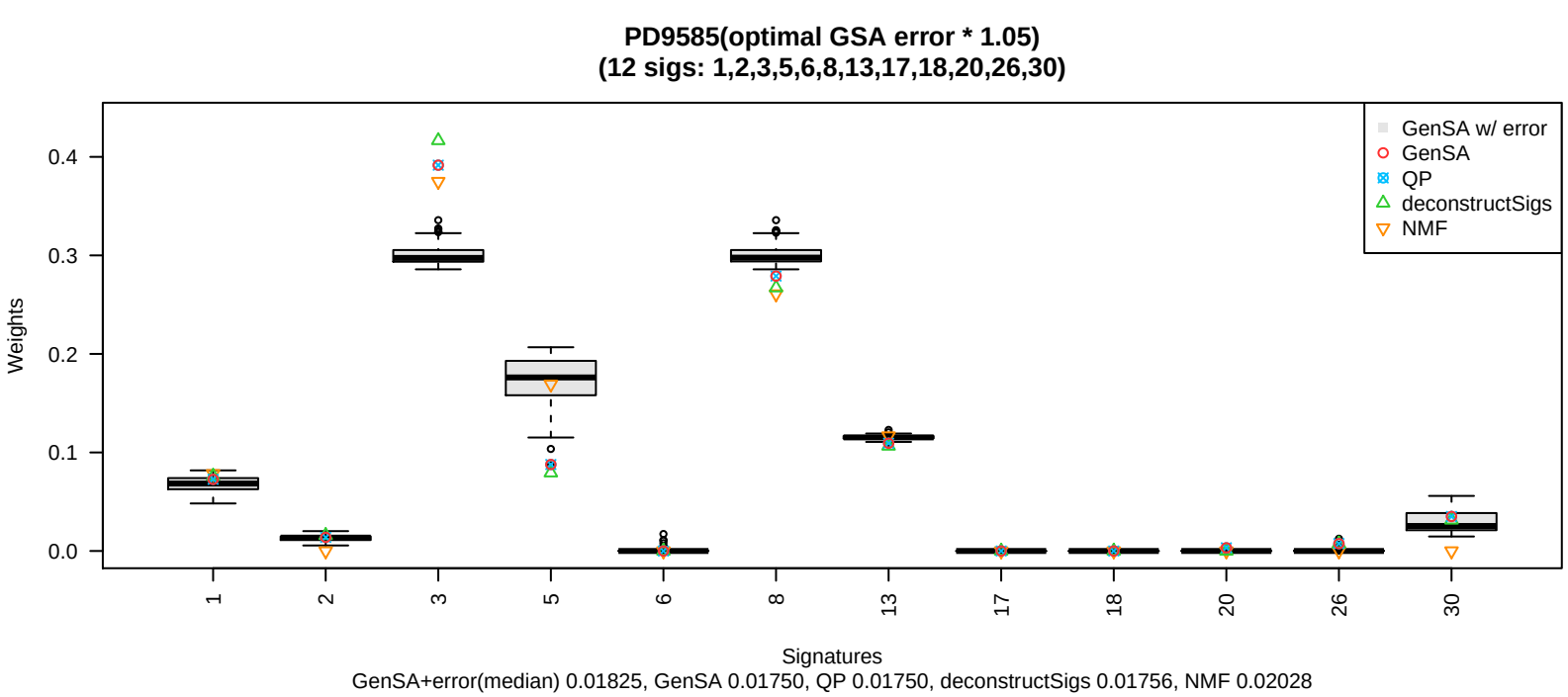
GenSA+error(median) 0.03372, GenSA 0.03225, QP 0.03225, deconstructSigs 0.03287, NMF 0.03289



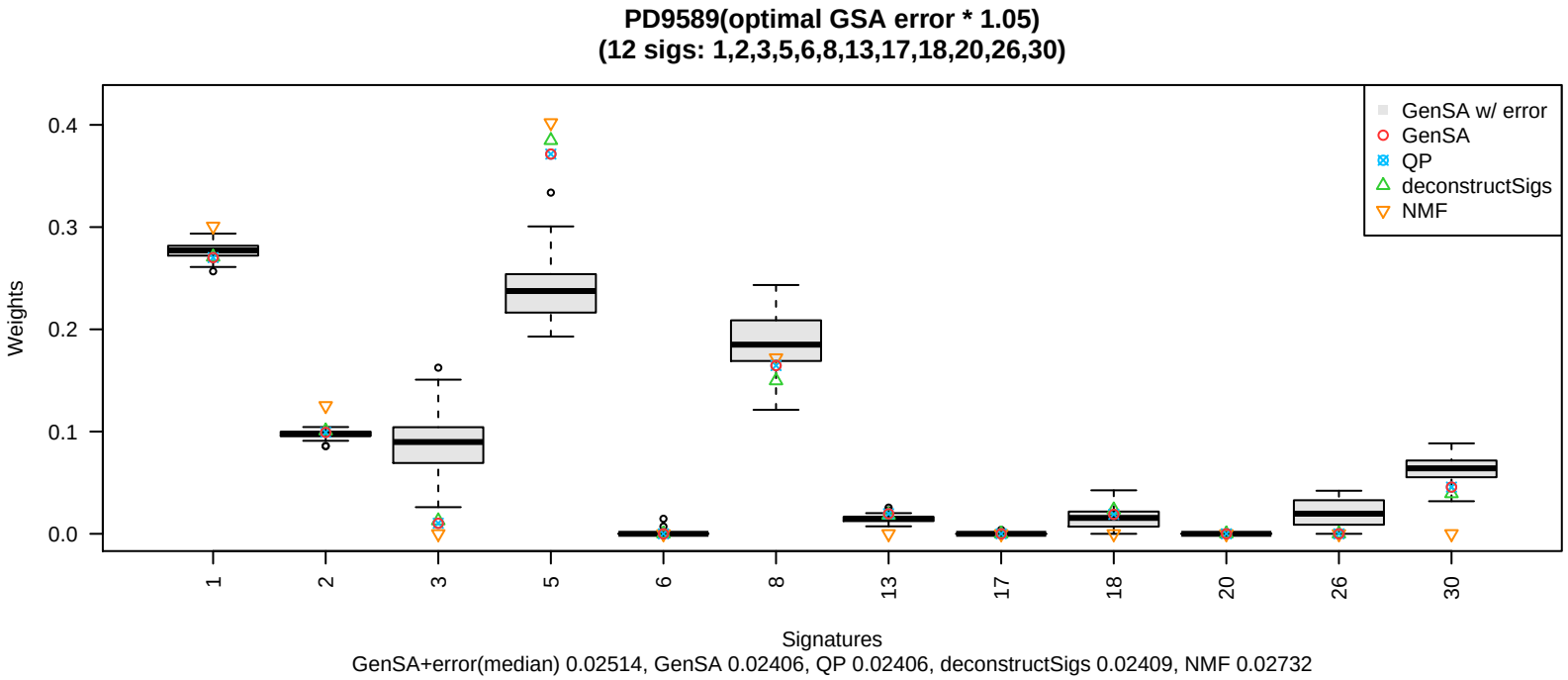
GenSA+error(median) 0.02955, GenSA 0.02837, QP 0.02837, deconstructSigs 0.02864, NMF 0.02984



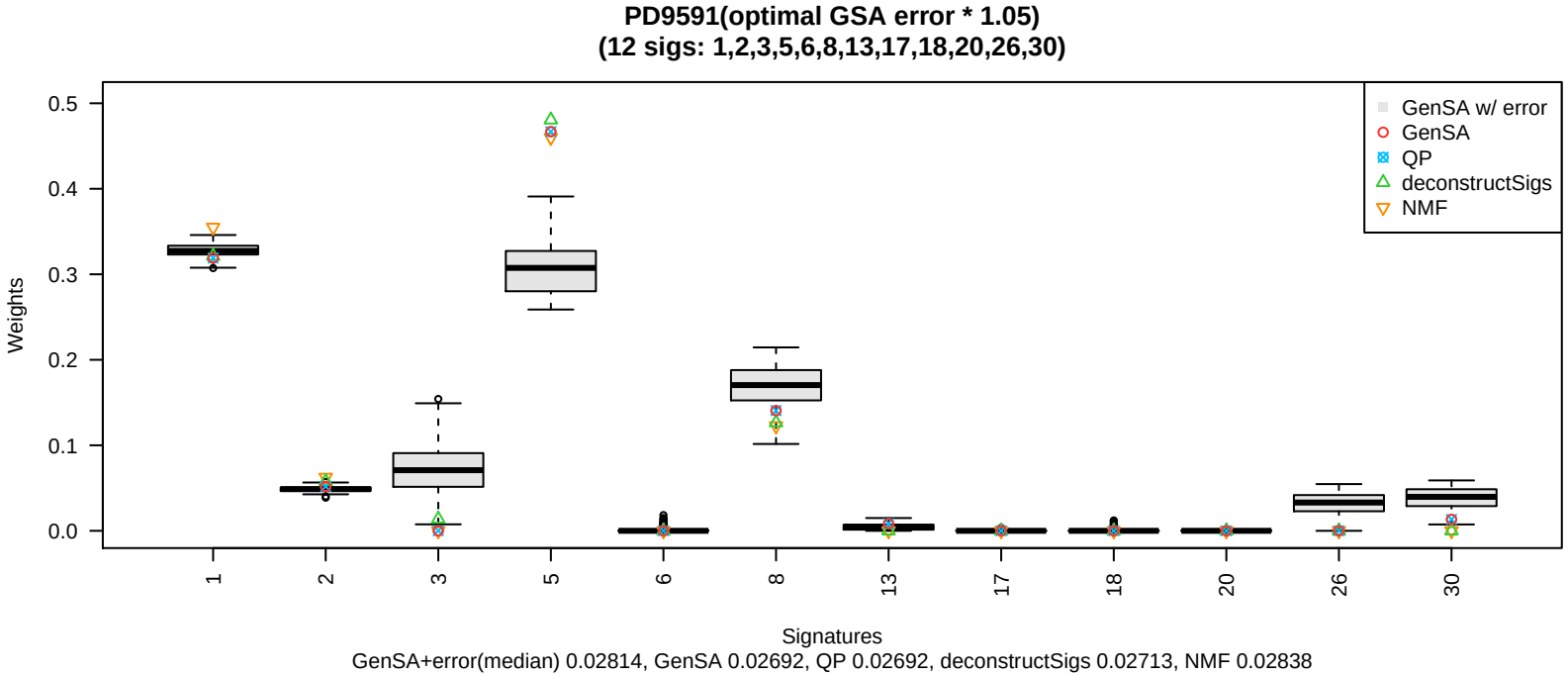
GenSA+error(median) 0.02359, GenSA 0.02253, QP 0.02253, deconstructSigs 0.02256, NMF 0.02315



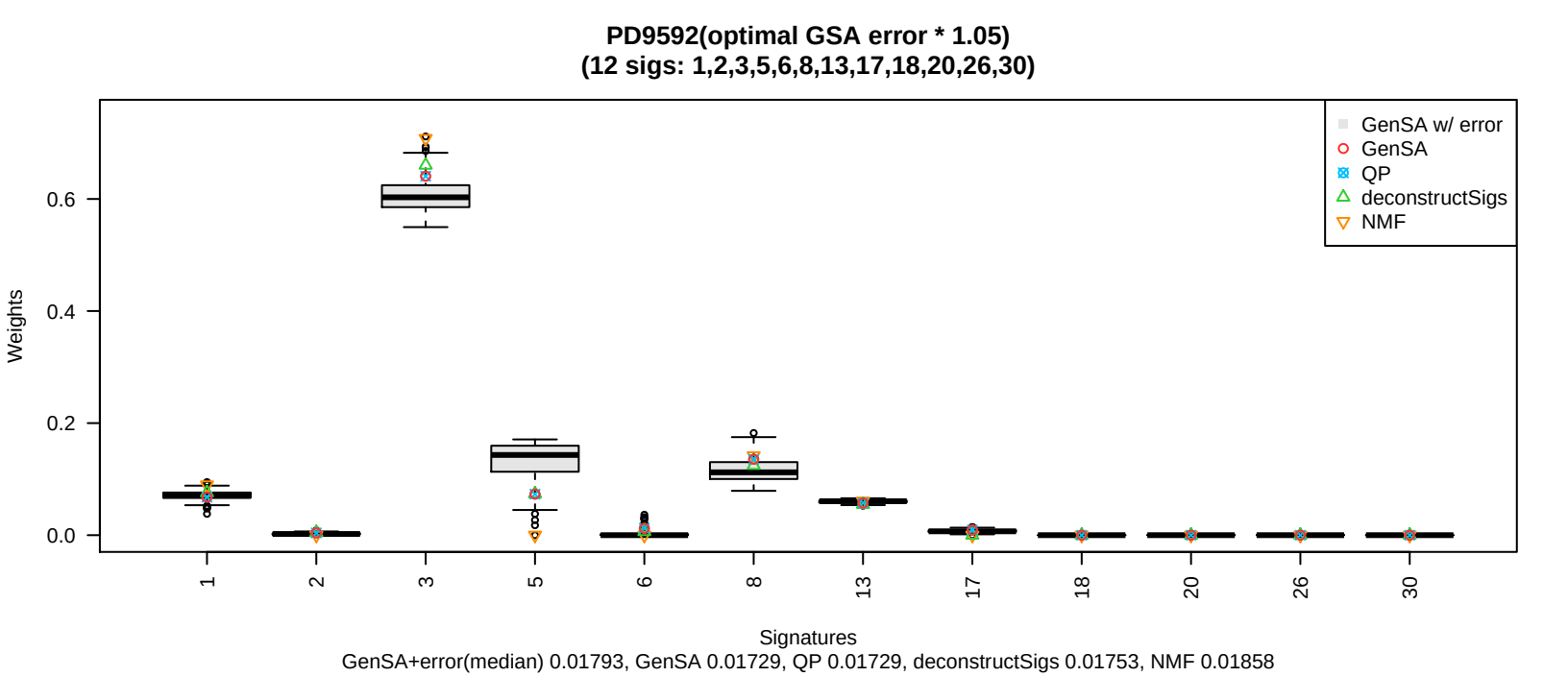
GenSA+error(median) 0.01825, GenSA 0.01750, QP 0.01750, deconstructSigs 0.01756, NMF 0.02028



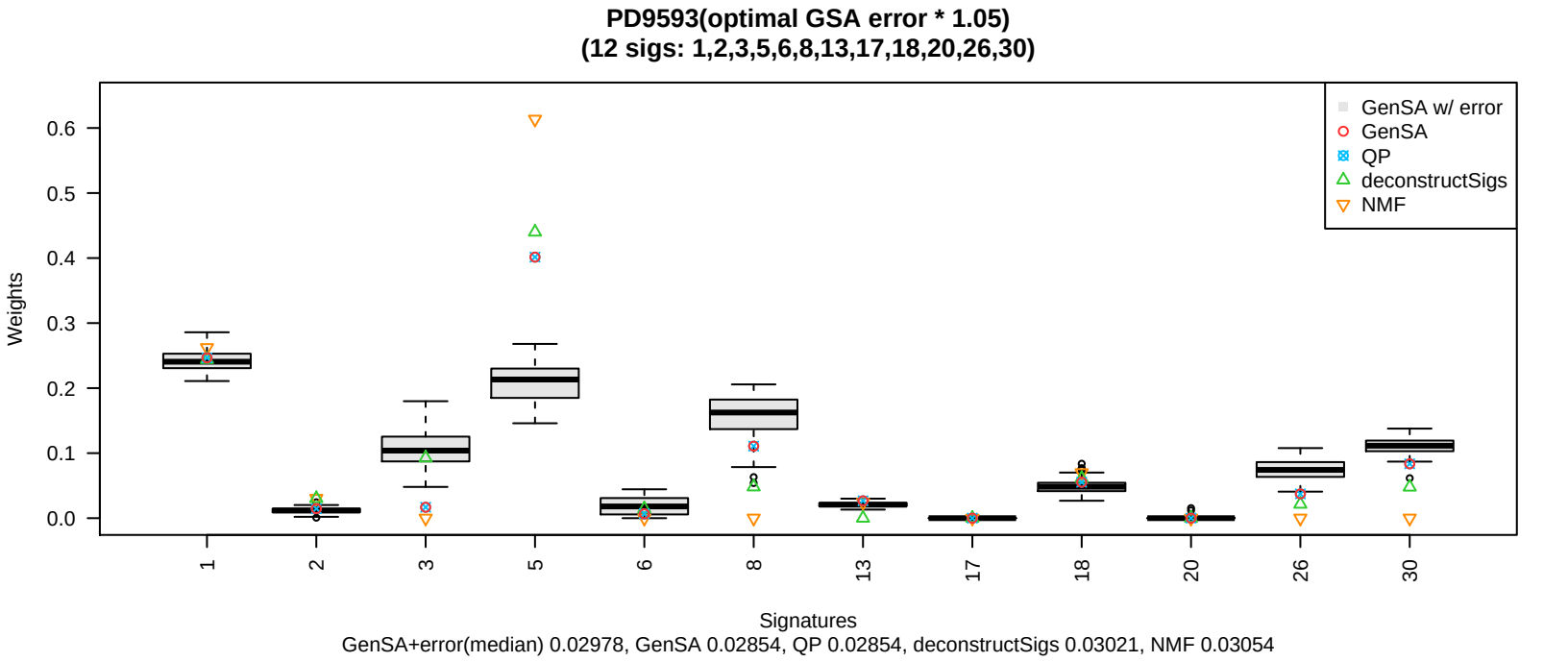
GenSA+error(median) 0.02514, GenSA 0.02406, QP 0.02406, deconstructSigs 0.02409, NMF 0.02732



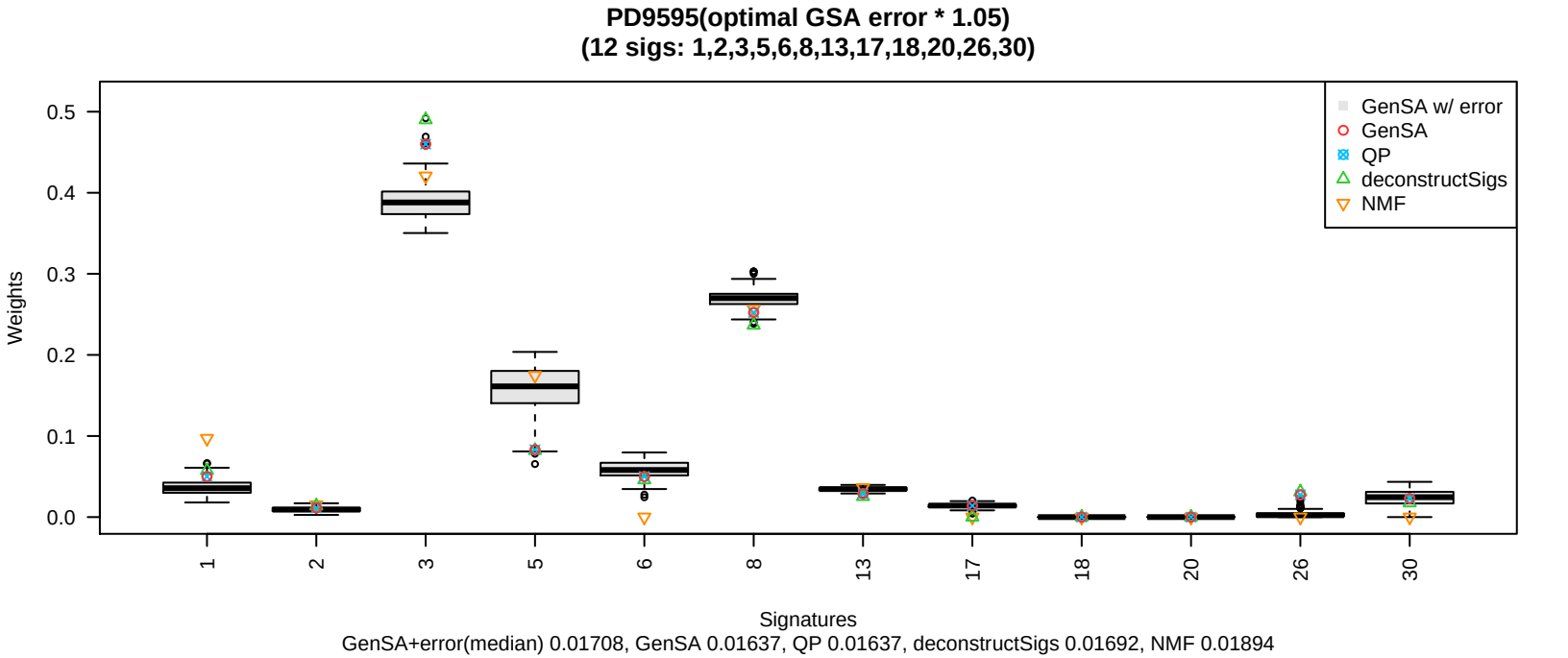
GenSA+error(median) 0.02814, GenSA 0.02692, QP 0.02692, deconstructSigs 0.02713, NMF 0.02838



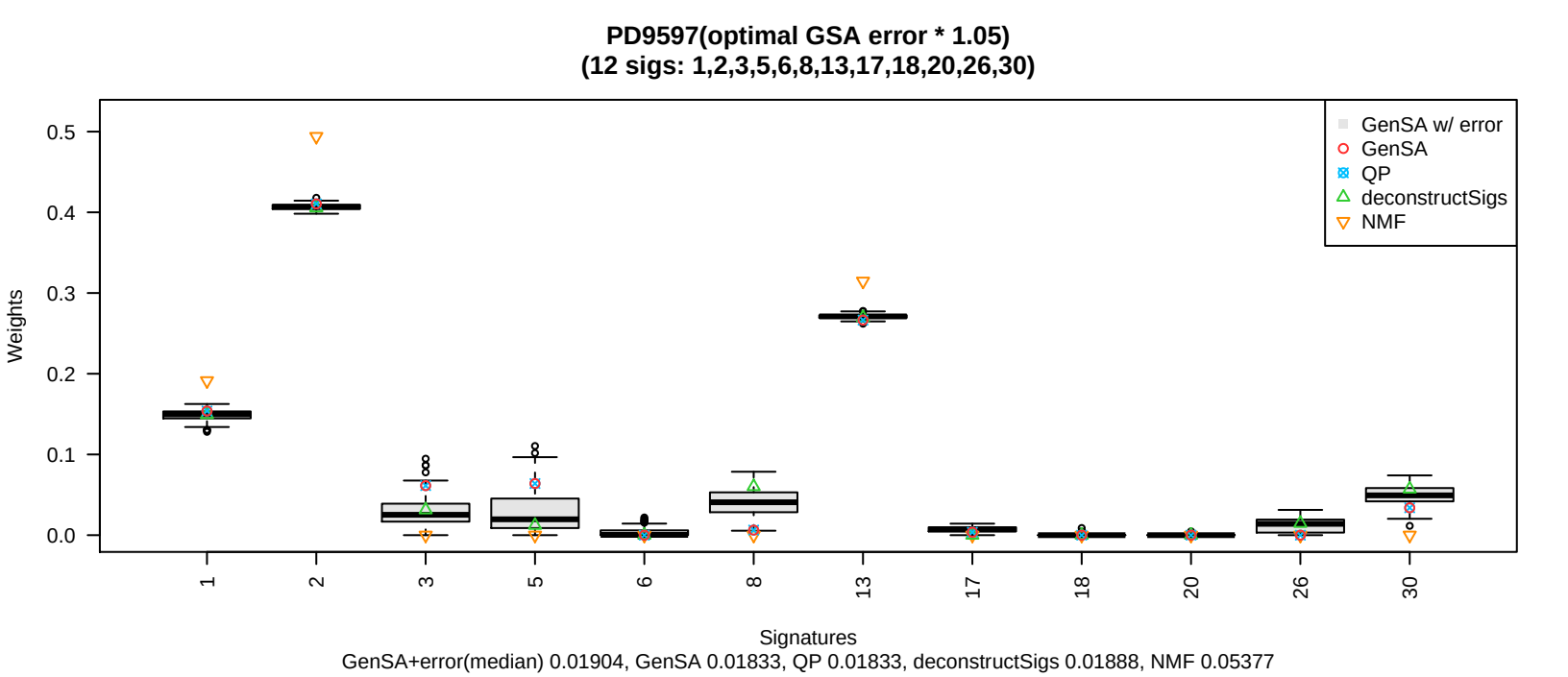
GenSA+error(median) 0.01793, GenSA 0.01729, QP 0.01729, deconstructSigs 0.01753, NMF 0.01858



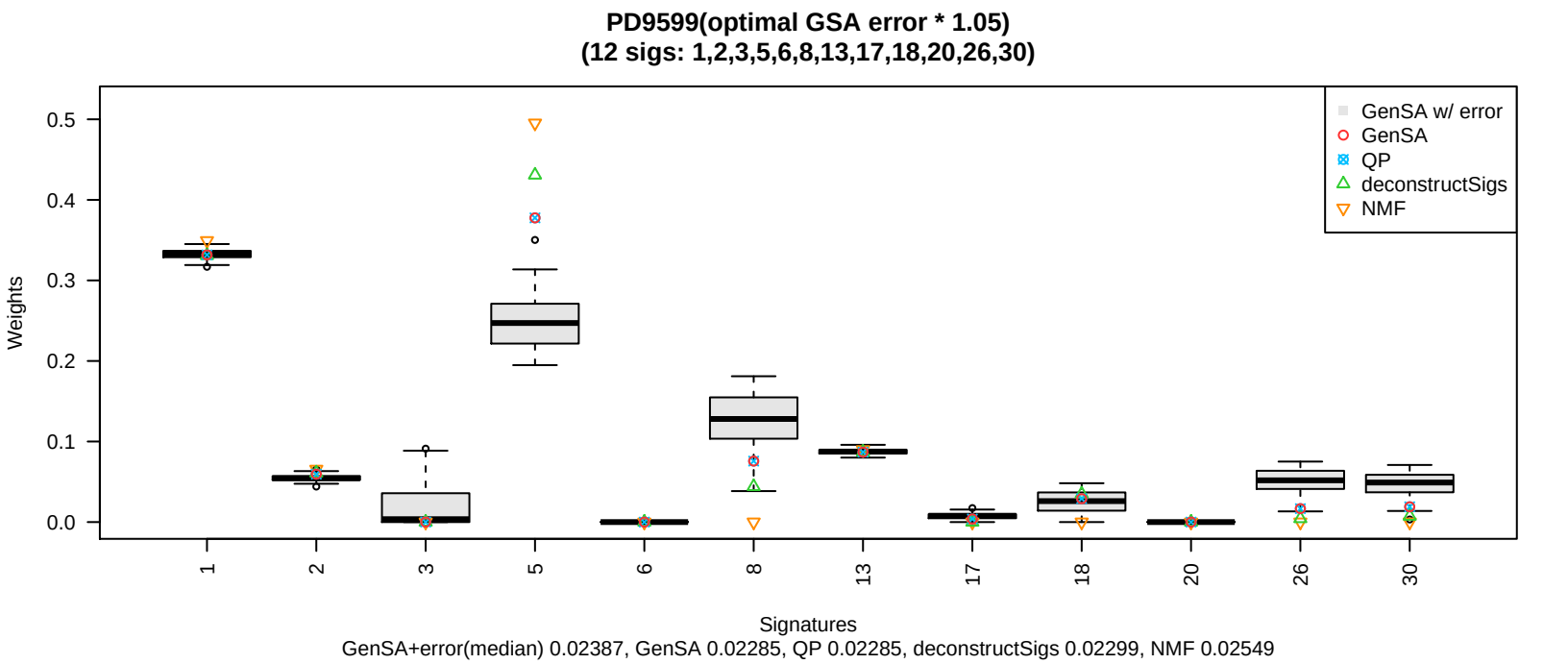
GenSA+error(median) 0.02978, GenSA 0.02854, QP 0.02854, deconstructSigs 0.03021, NMF 0.03054



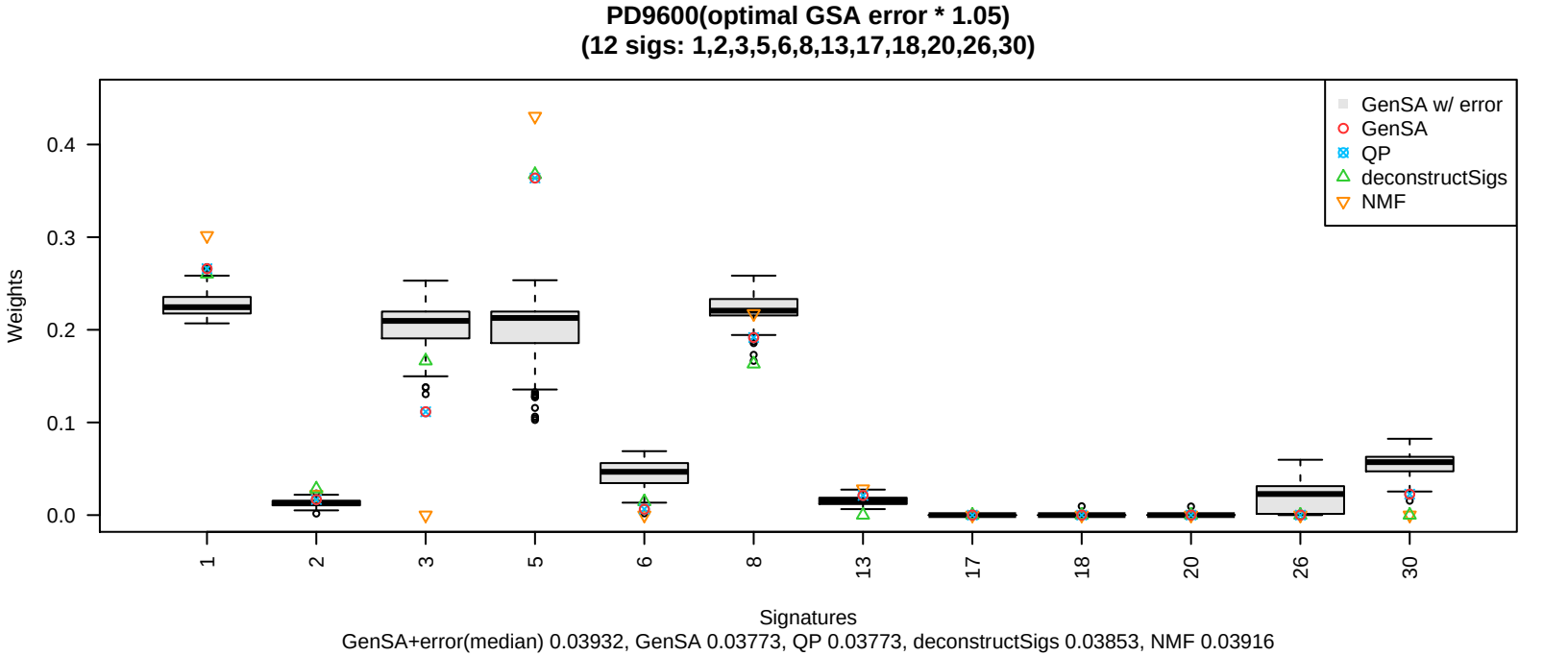
GenSA+error(median) 0.01708, GenSA 0.01637, QP 0.01637, deconstructSigs 0.01692, NMF 0.01894



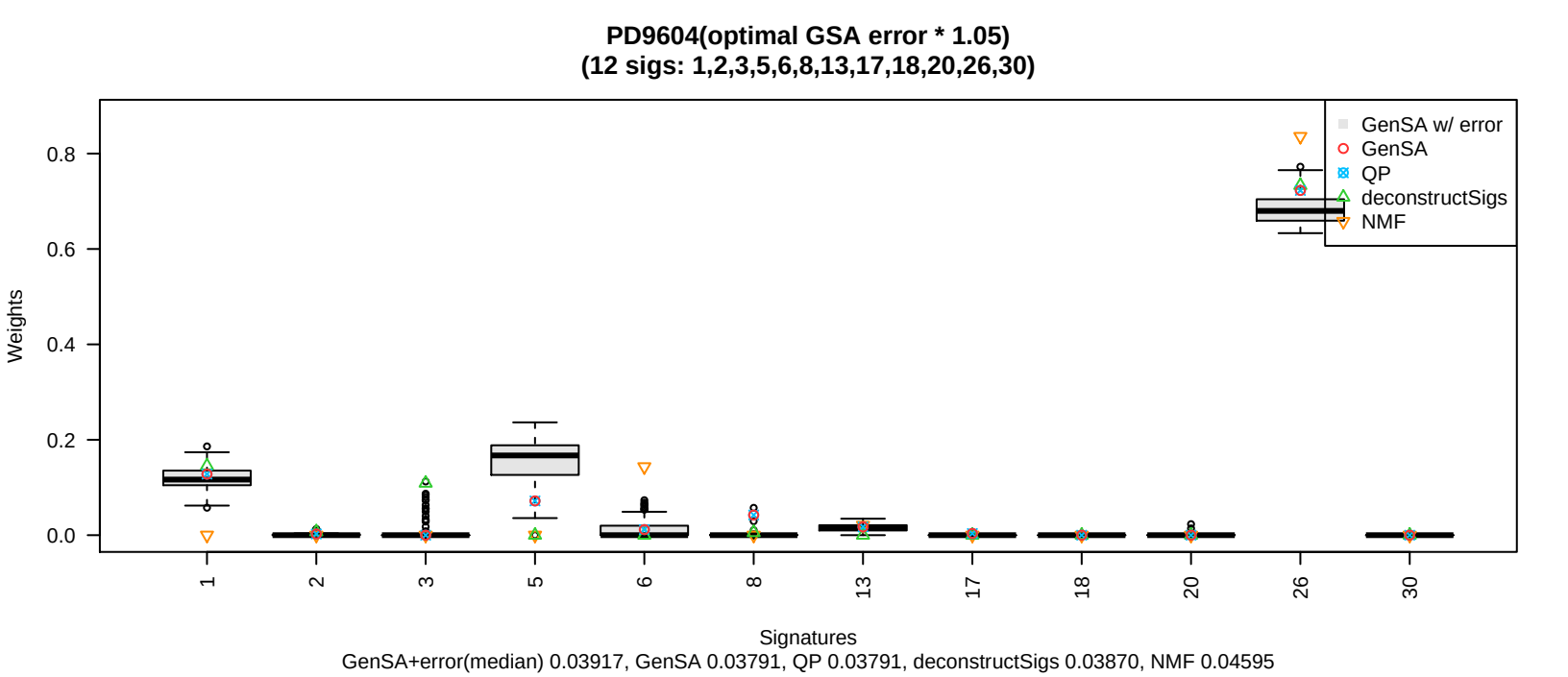
GenSA+error(median) 0.01904, GenSA 0.01833, QP 0.01833, deconstructSigs 0.01888, NMF 0.05377



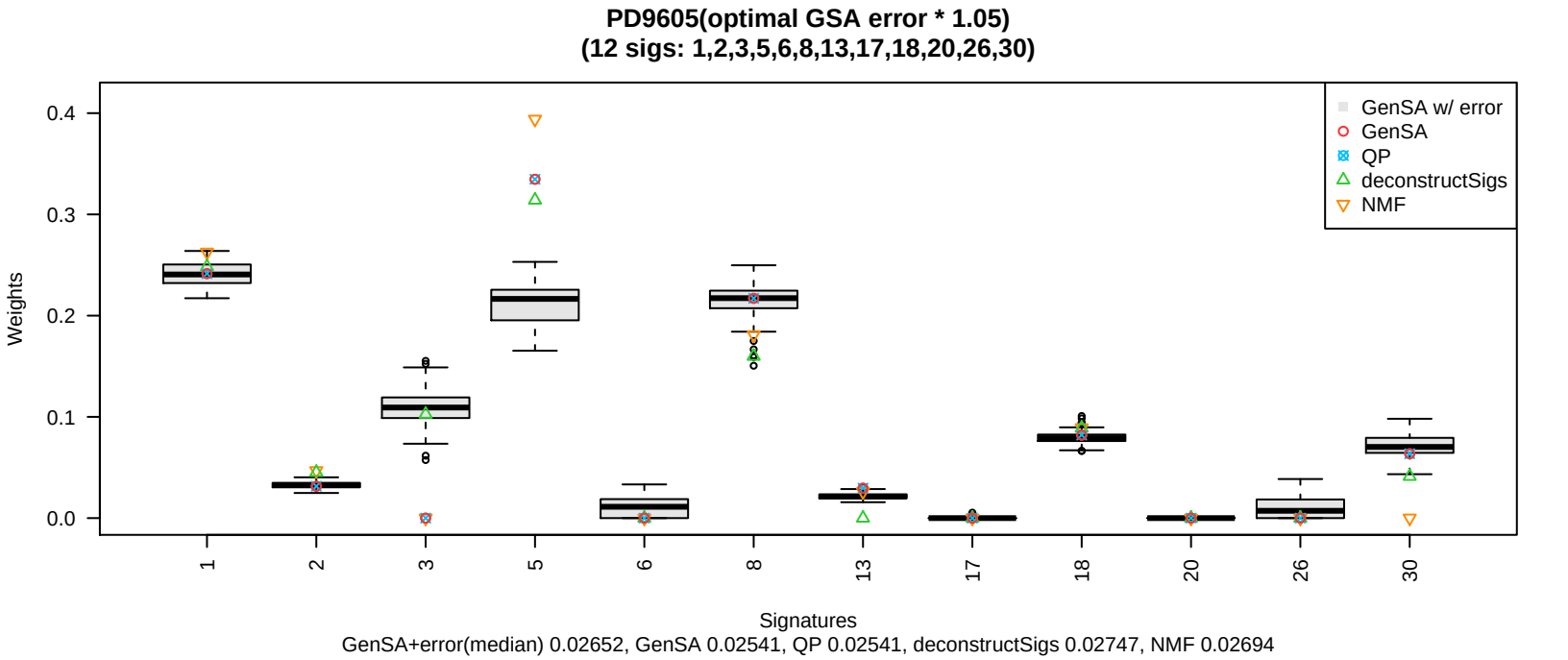
GenSA+error(median) 0.02387, GenSA 0.02285, QP 0.02285, deconstructSigs 0.02299, NMF 0.02549



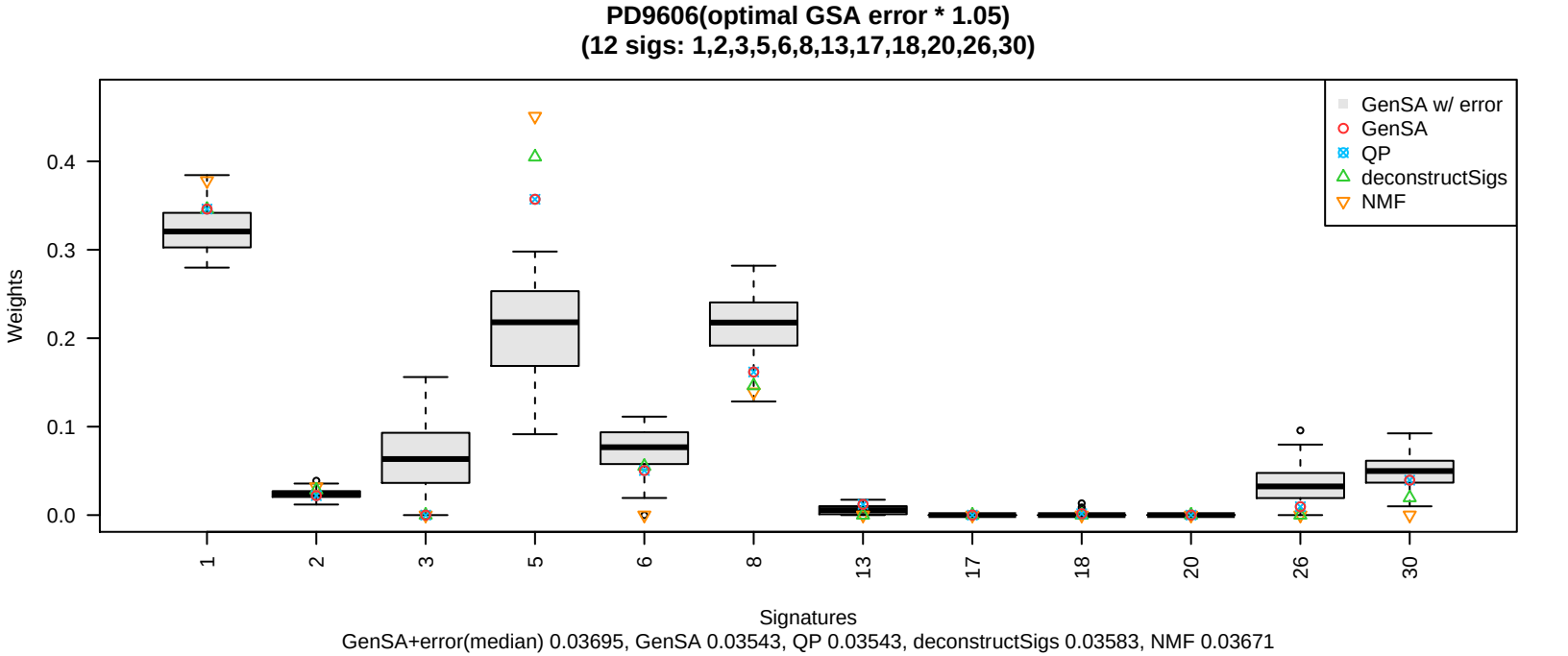
GenSA+error(median) 0.03932, GenSA 0.03773, QP 0.03773, deconstructSigs 0.03853, NMF 0.03916



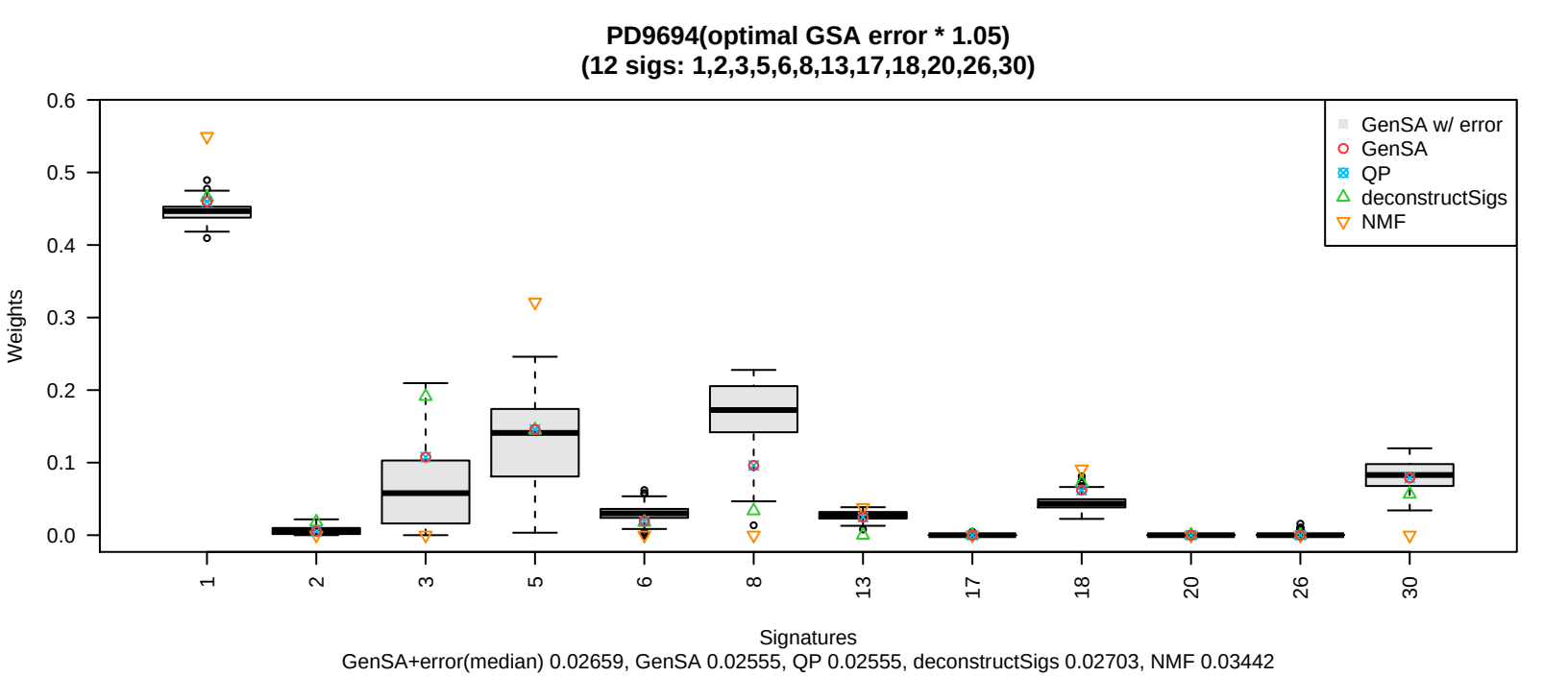
GenSA+error(median) 0.03917, GenSA 0.03791, QP 0.03791, deconstructSigs 0.03870, NMF 0.04595

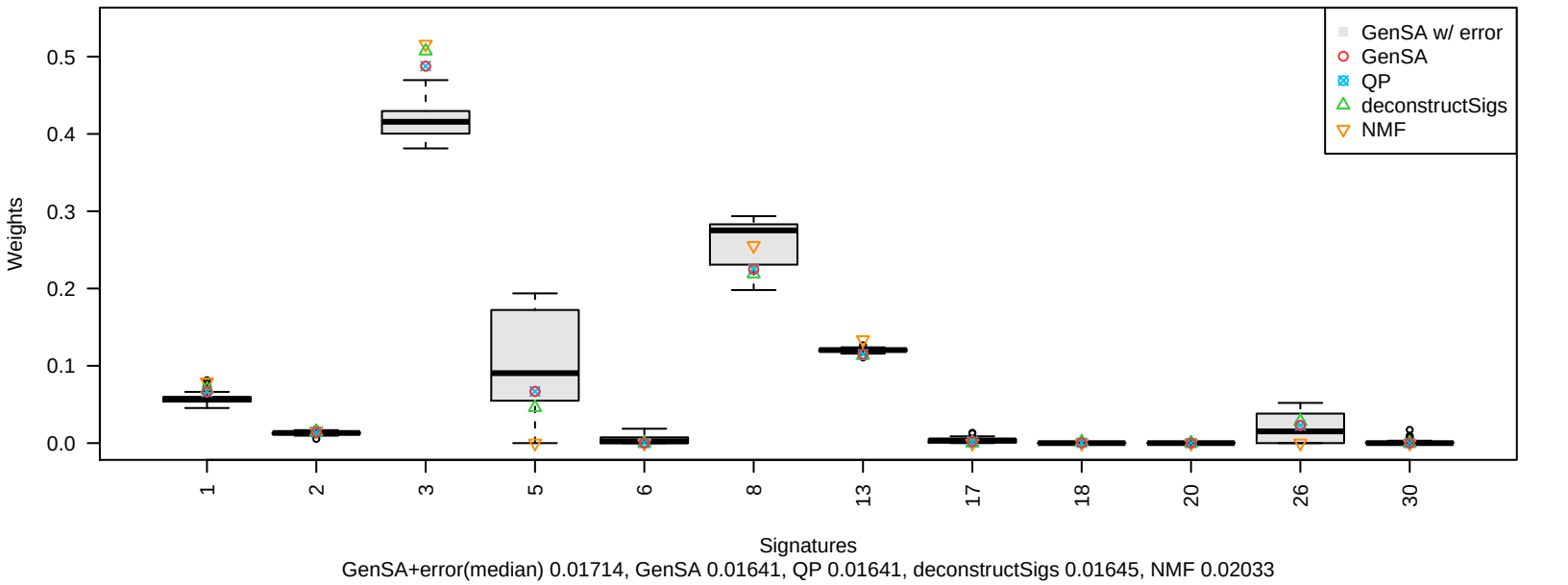


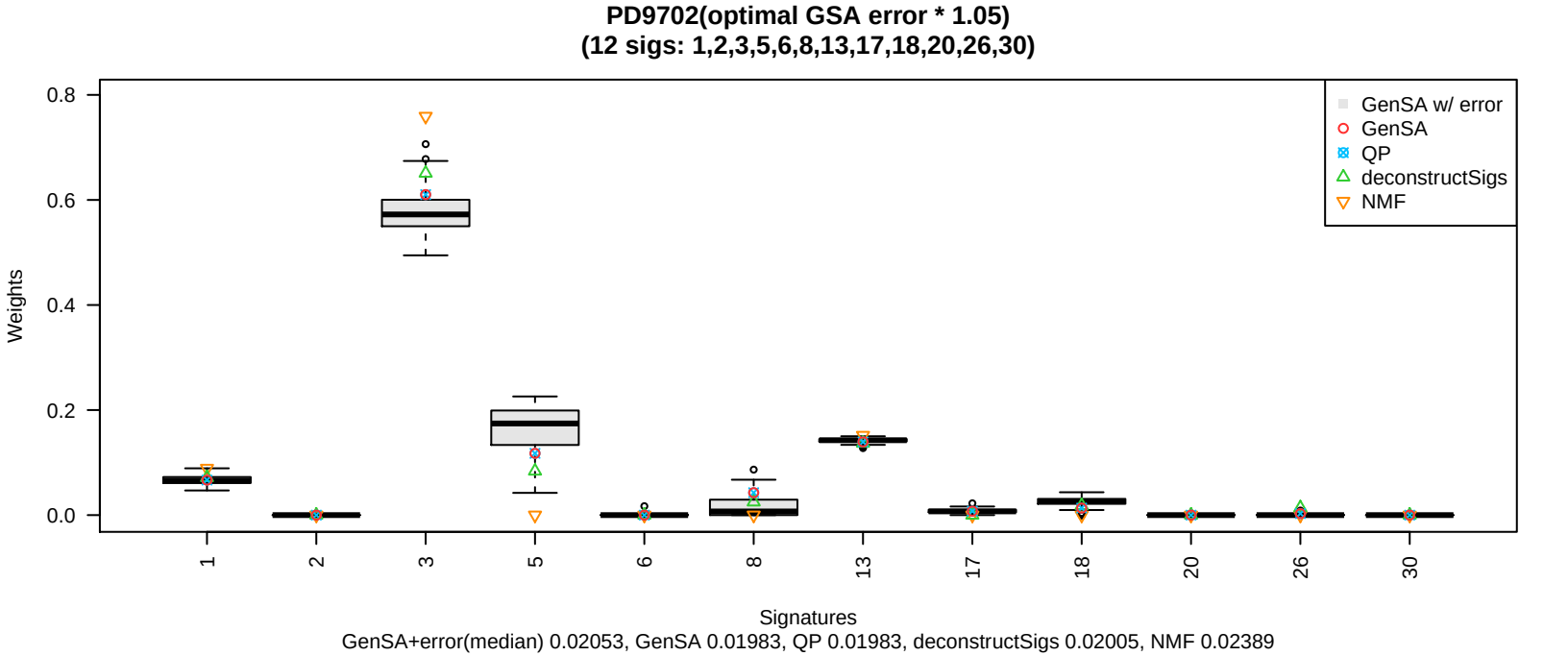
GenSA+error(median) 0.02652, GenSA 0.02541, QP 0.02541, deconstructSigs 0.02747, NMF 0.02694

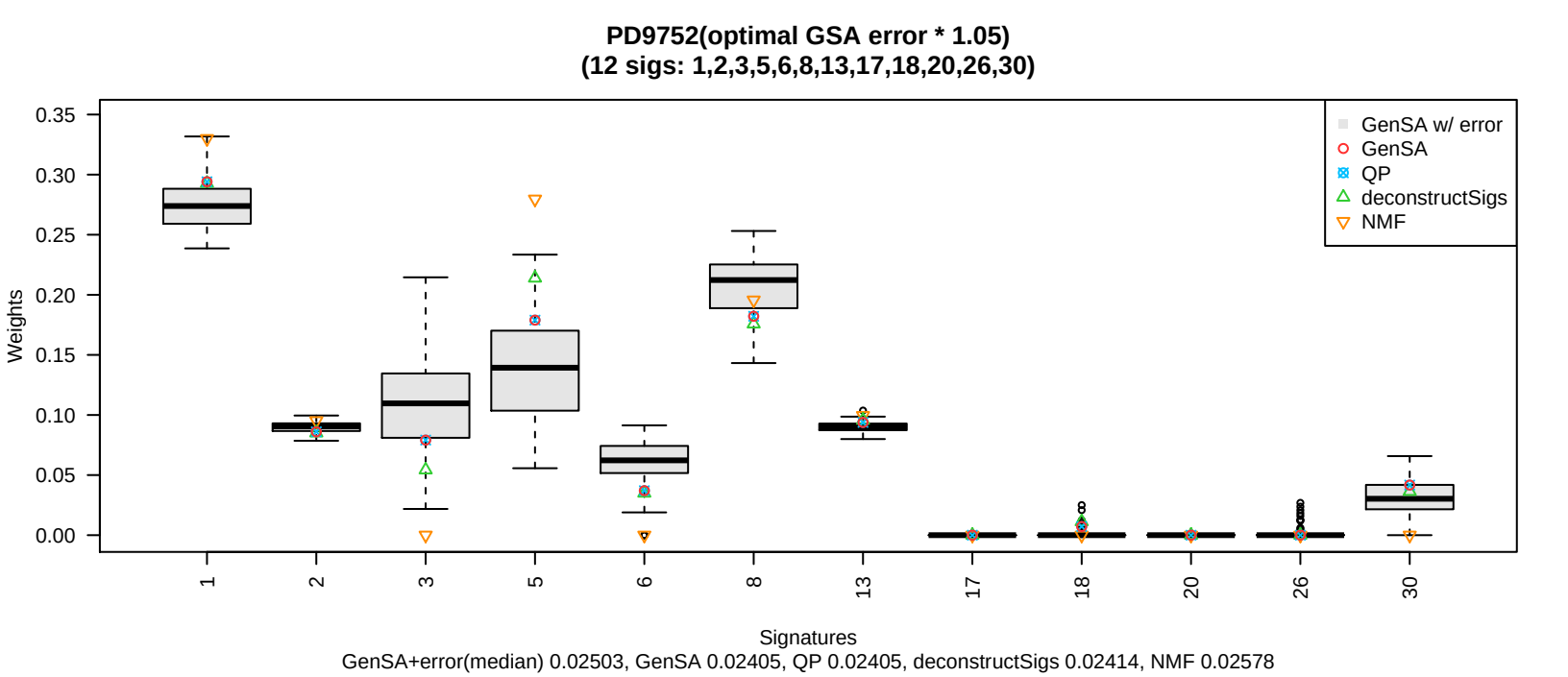


GenSA+error(median) 0.03695, GenSA 0.03543, QP 0.03543, deconstructSigs 0.03583, NMF 0.03671

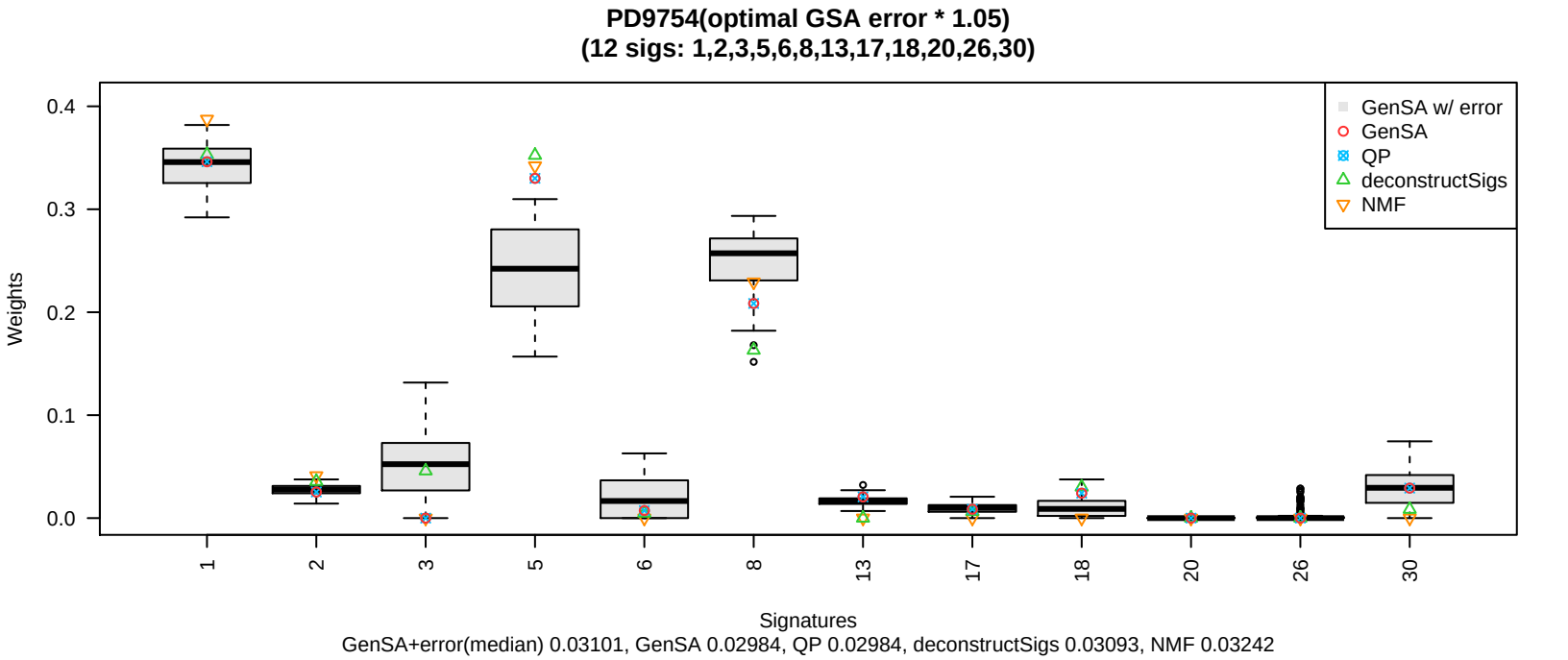

PD9694(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02659, GenSA 0.02555, QP 0.02555, deconstructSigs 0.02703, NMF 0.03442


PD9696(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.01714, GenSA 0.01641, QP 0.01641, deconstructSigs 0.01645, NMF 0.02033

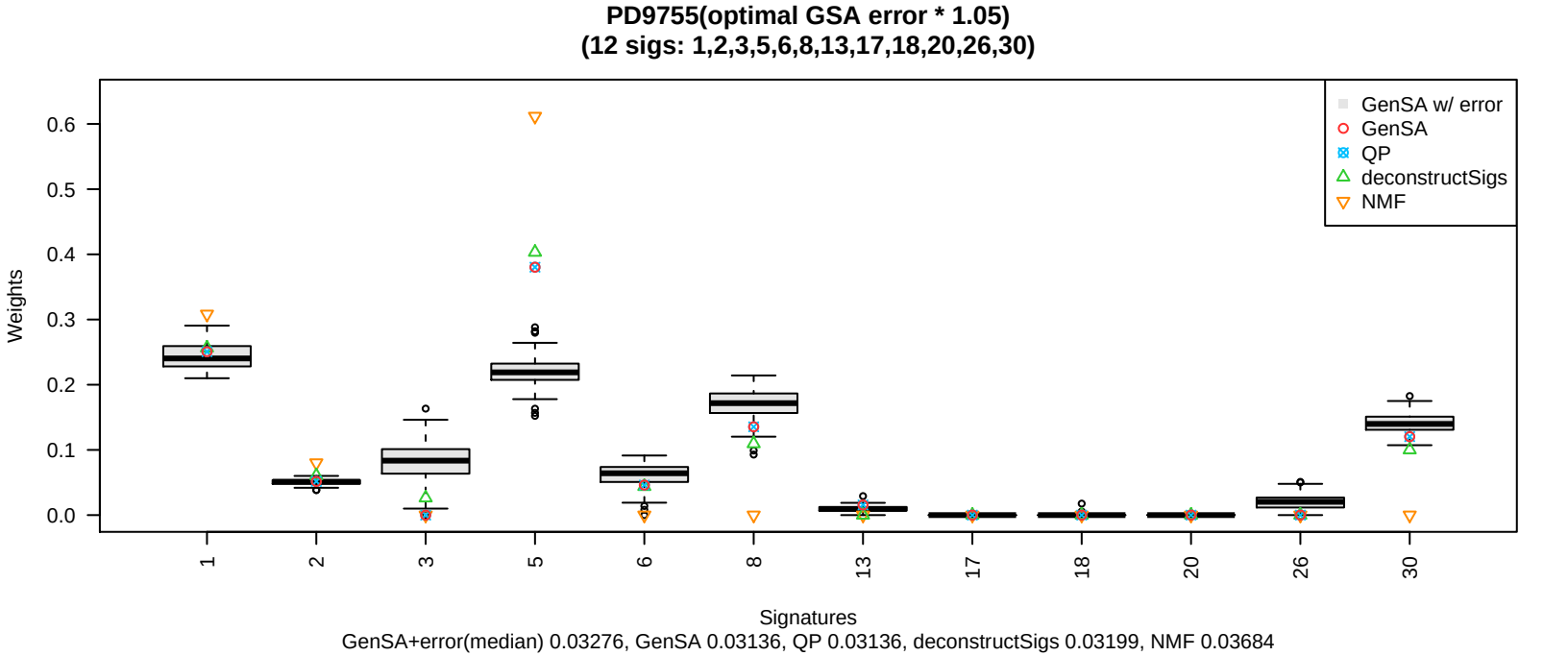

PD9702(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.2
0.4
0.6
0.8
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02053, GenSA 0.01983, QP 0.01983, deconstructSigs 0.02005, NMF 0.02389



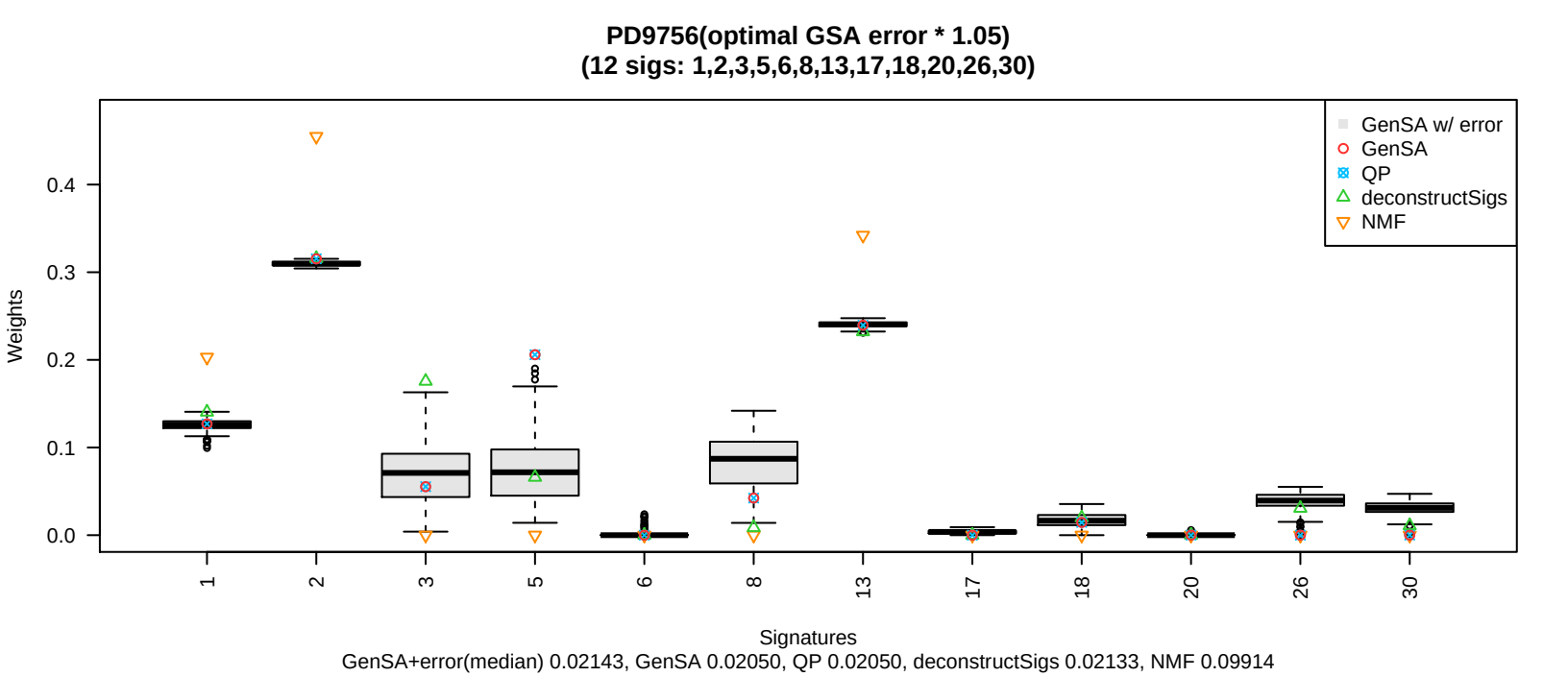
GenSA+error(median) 0.02503, GenSA 0.02405, QP 0.02405, deconstructSigs 0.02414, NMF 0.02578



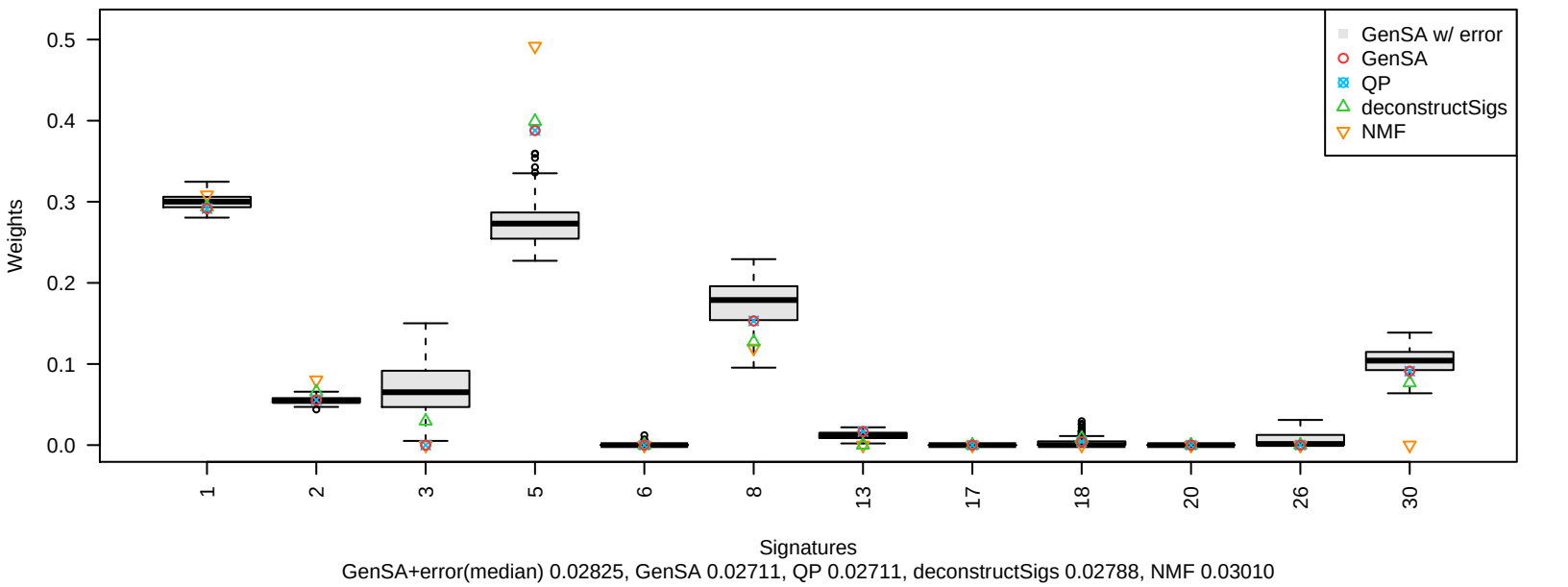
GenSA+error(median) 0.03101, GenSA 0.02984, QP 0.02984, deconstructSigs 0.03093, NMF 0.03242



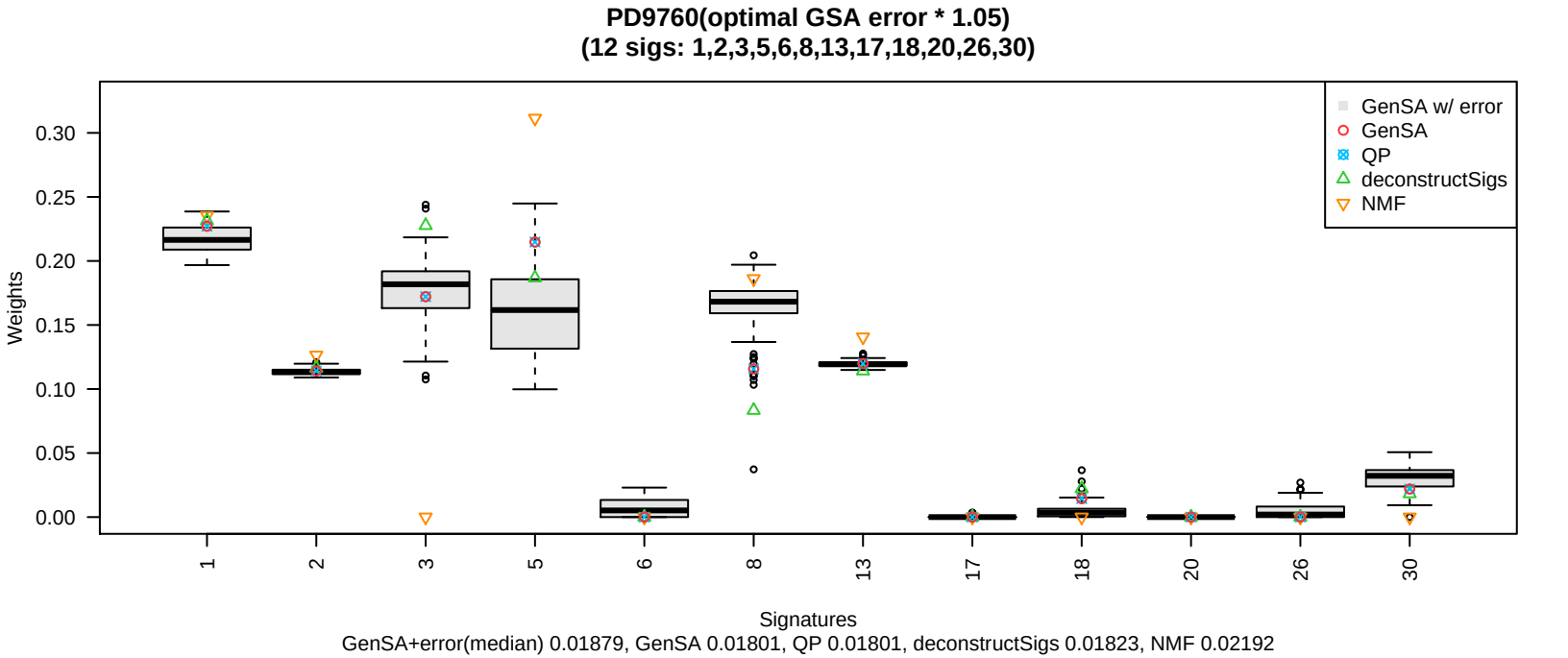
GenSA+error(median) 0.03276, GenSA 0.03136, QP 0.03136, deconstructSigs 0.03199, NMF 0.03684



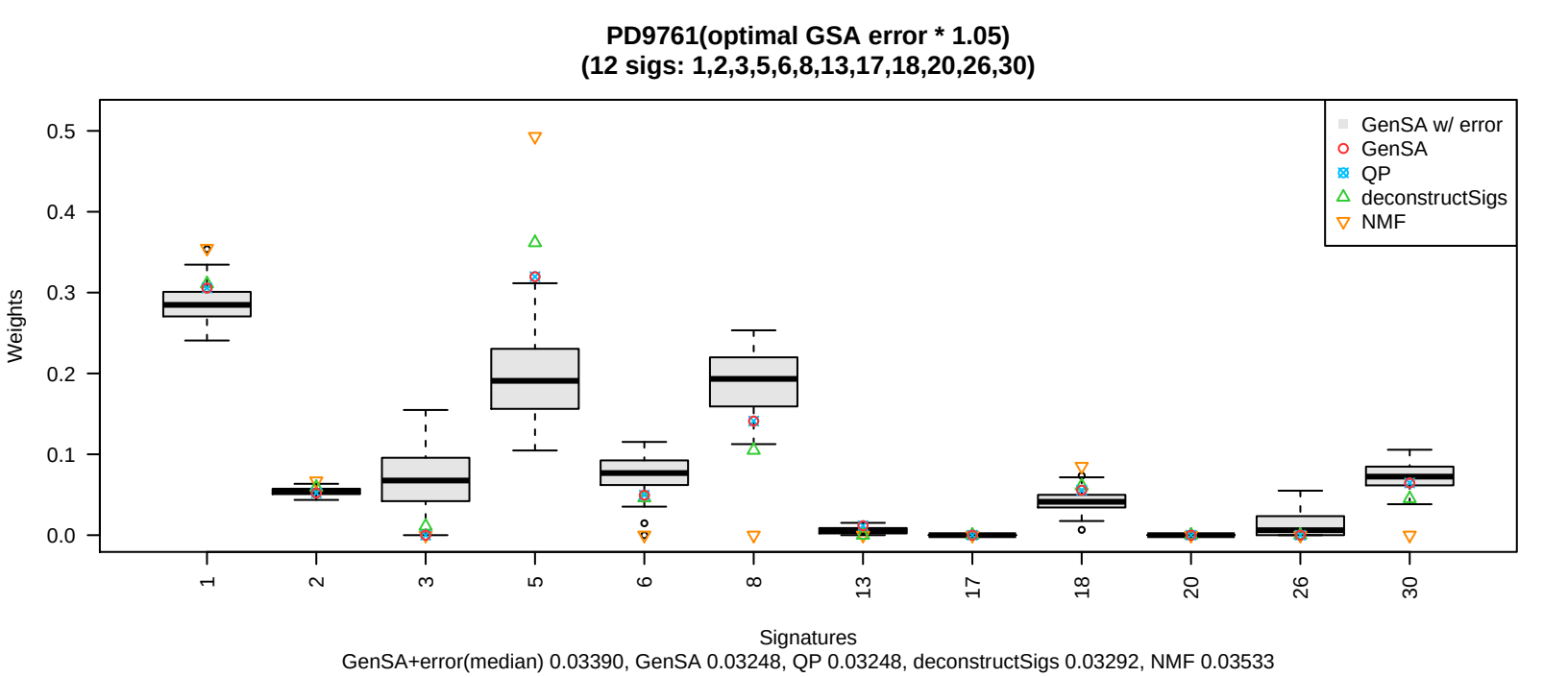
GenSA+error(median) 0.02143, GenSA 0.02050, QP 0.02050, deconstructSigs 0.02133, NMF 0.09914



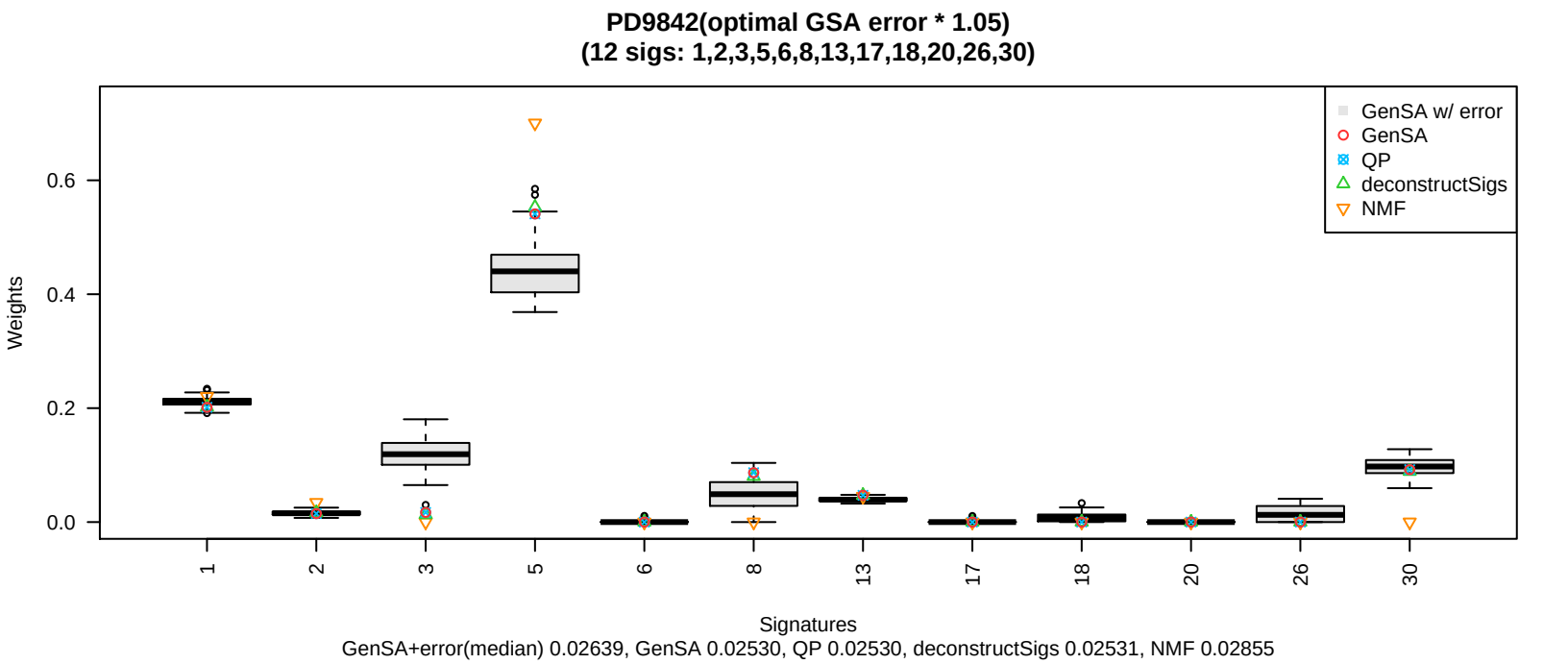
GenSA+error(median) 0.02825, GenSA 0.02711, QP 0.02711, deconstructSigs 0.02788, NMF 0.03010



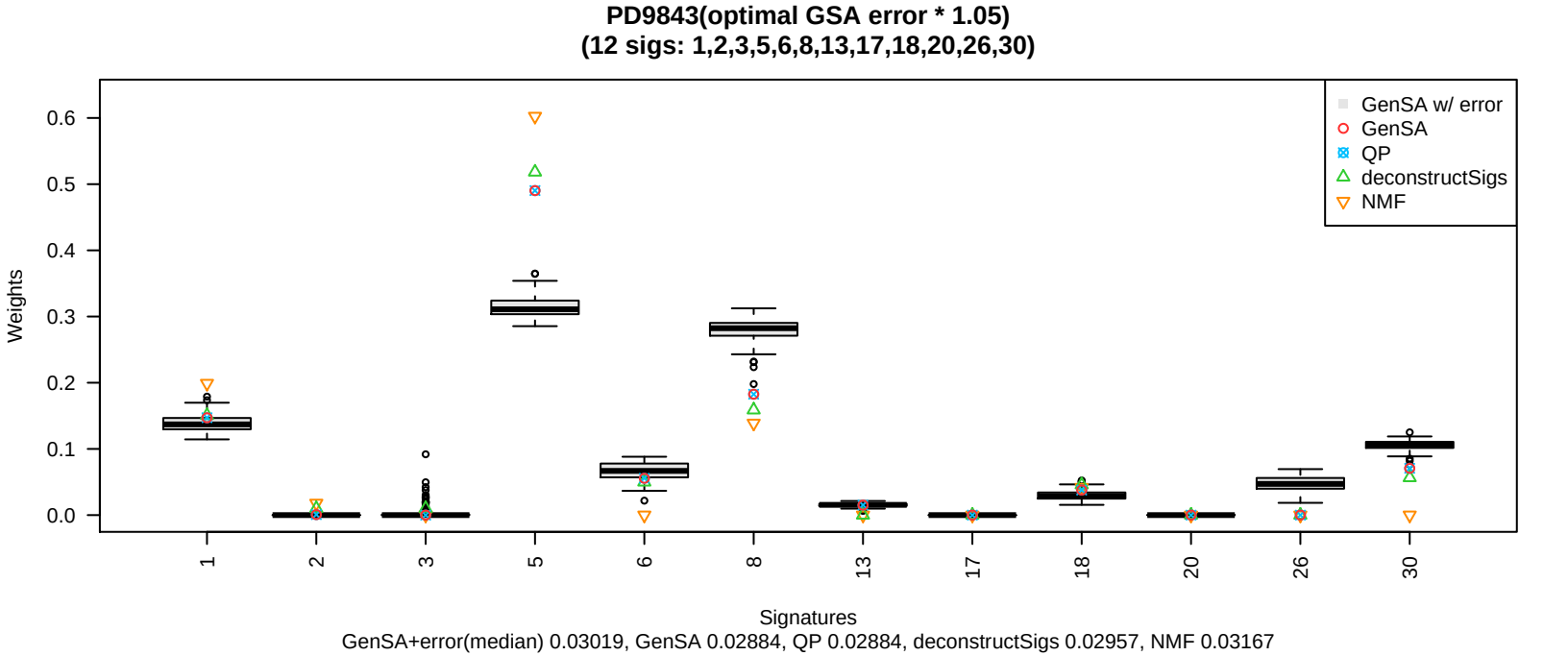
GenSA+error(median) 0.01879, GenSA 0.01801, QP 0.01801, deconstructSigs 0.01823, NMF 0.02192



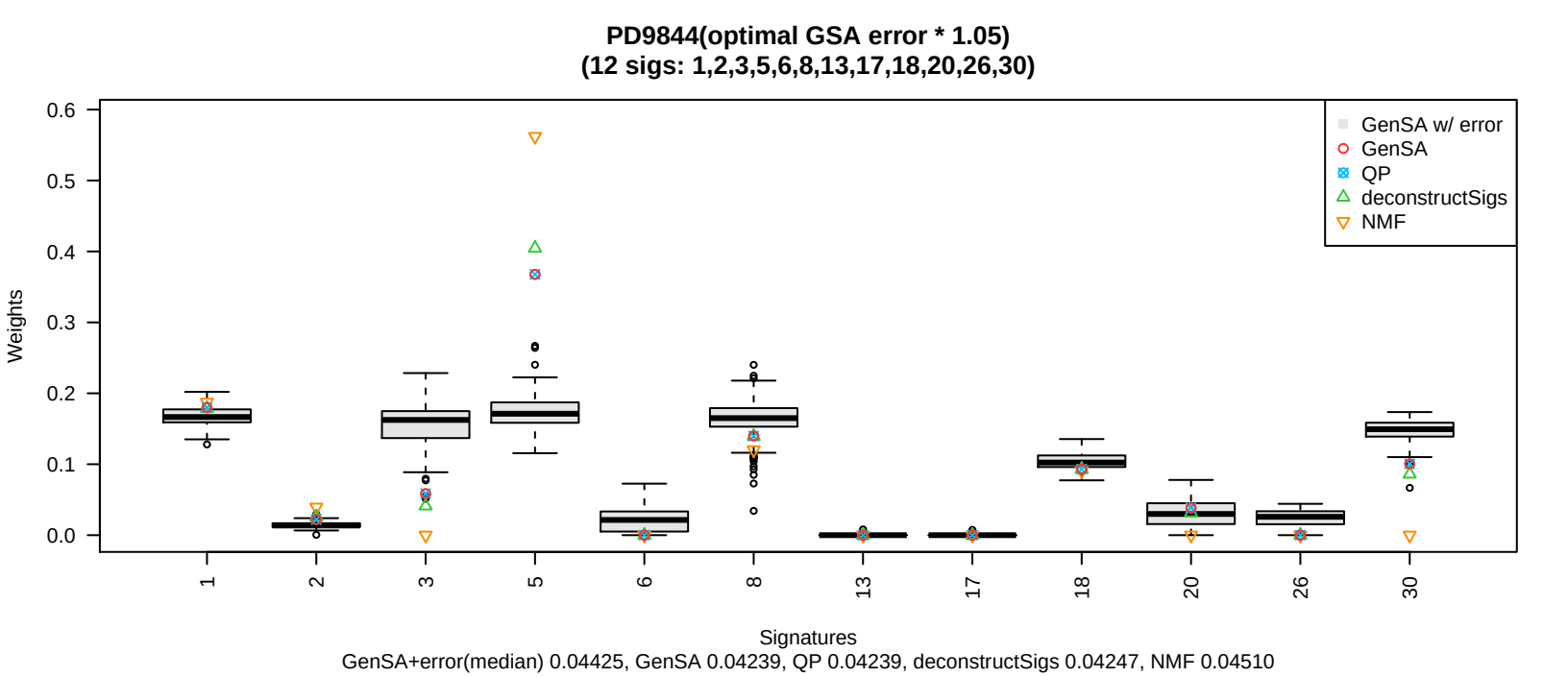
GenSA+error(median) 0.03390, GenSA 0.03248, QP 0.03248, deconstructSigs 0.03292, NMF 0.03533

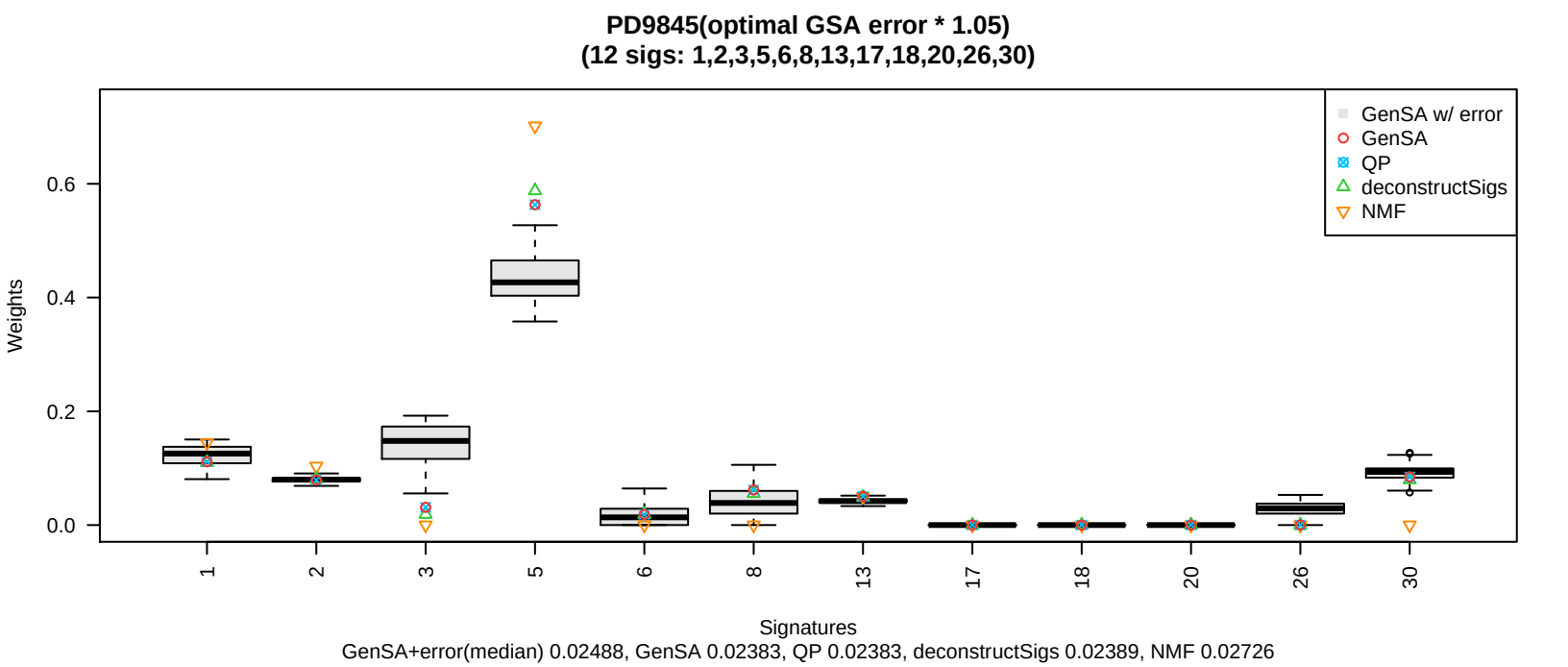


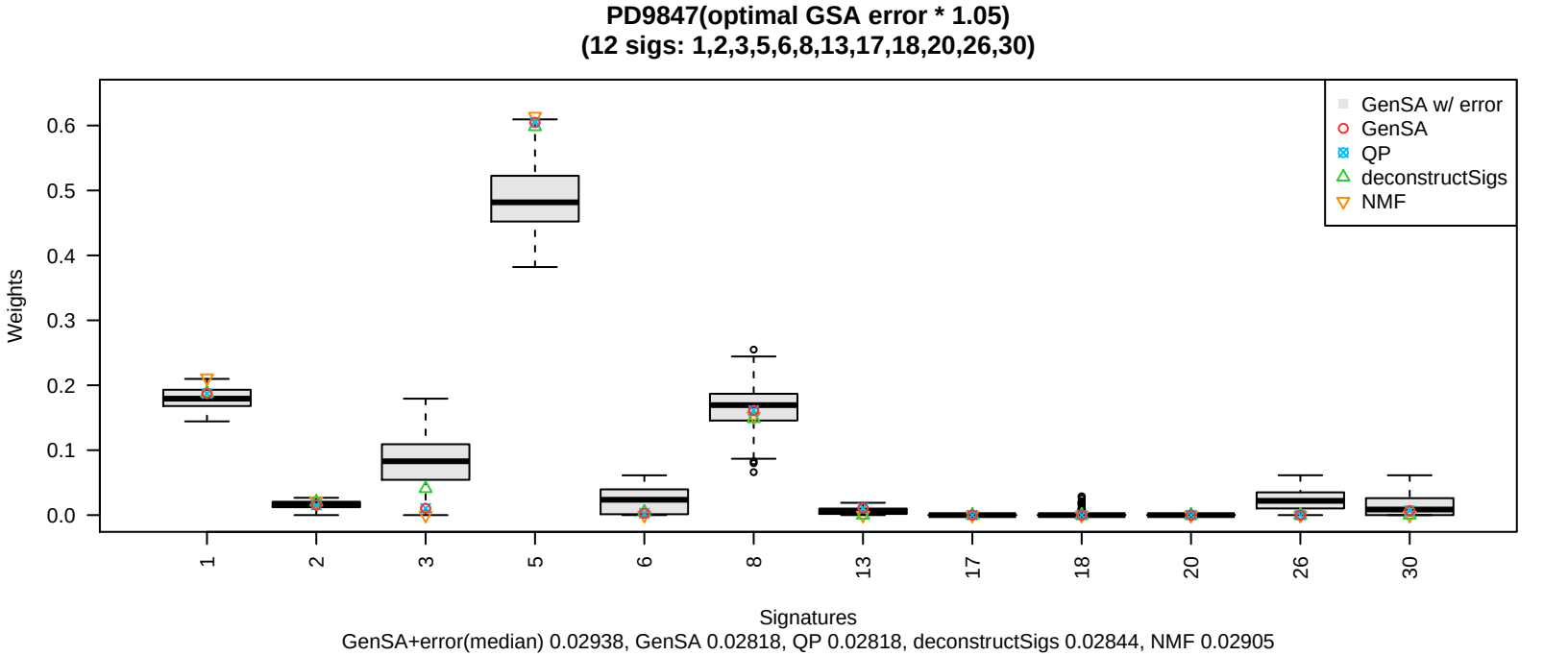
GenSA+error(median) 0.02639, GenSA 0.02530, QP 0.02530, deconstructSigs 0.02531, NMF 0.02855



GenSA+error(median) 0.03019, GenSA 0.02884, QP 0.02884, deconstructSigs 0.02957, NMF 0.03167


PD9844(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.04425, GenSA 0.04239, QP 0.04239, deconstructSigs 0.04247, NMF 0.04510


PD9845(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.2
0.4
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02488, GenSA 0.02383, QP 0.02383, deconstructSigs 0.02389, NMF 0.02726


PD9847(optimal GSA error * 1.05)
(12 sigs: 1,2,3,5,6,8,13,17,18,20,26,30)
GenSA w/ error
GenSA
QP
deconstructSigs
NMF
Weights
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
5
6
8
13
17
18
20
26
30
Signatures
GenSA+error(median) 0.02938, GenSA 0.02818, QP 0.02818, deconstructSigs 0.02844, NMF 0.02905