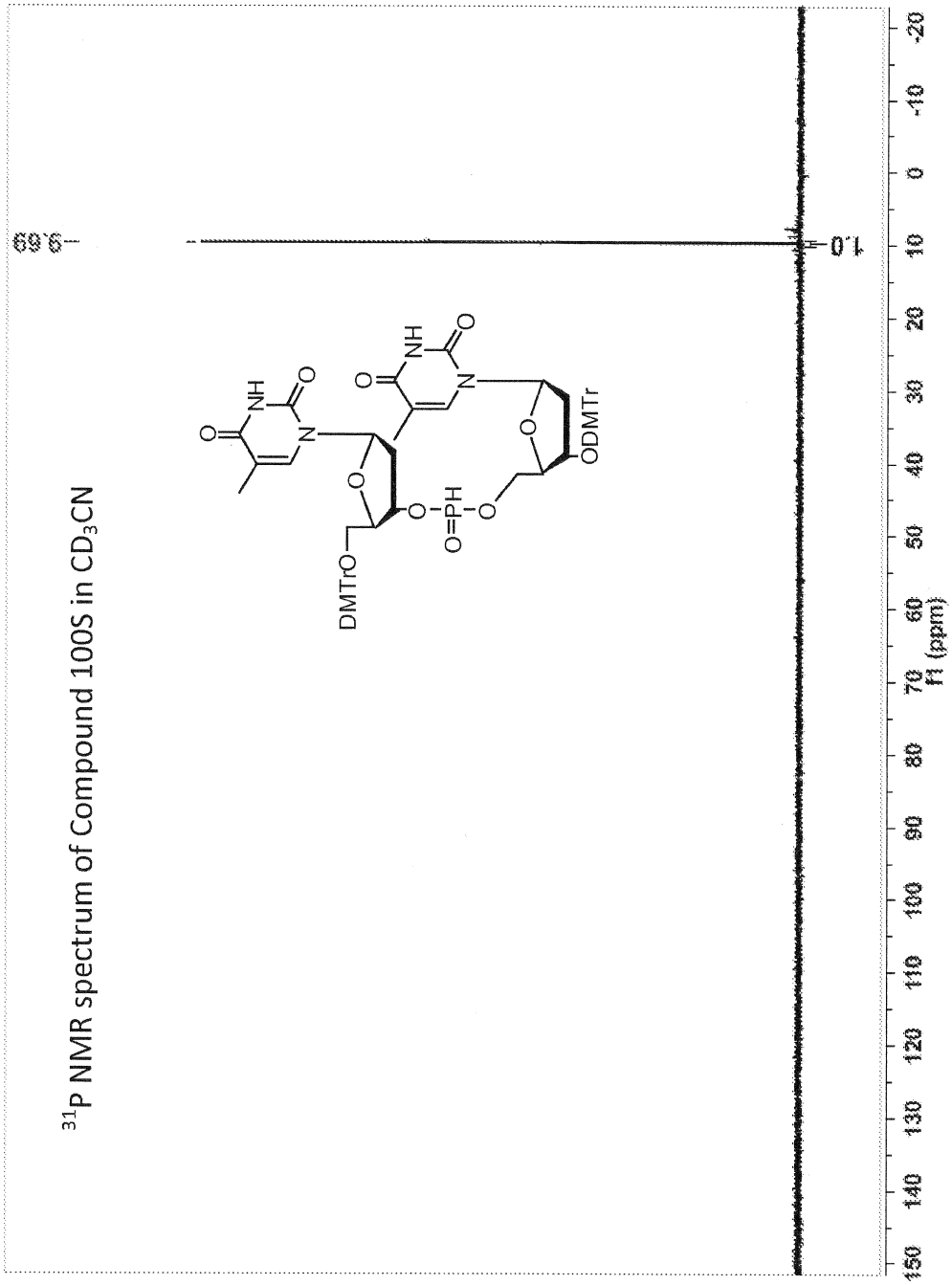

$^{31}$P NMR spectrum of Compound 100S in $CD_3CN$
-9.69
1.0
DMTrO
O=PH
ODMTr
f1 (ppm)

FIG. 1

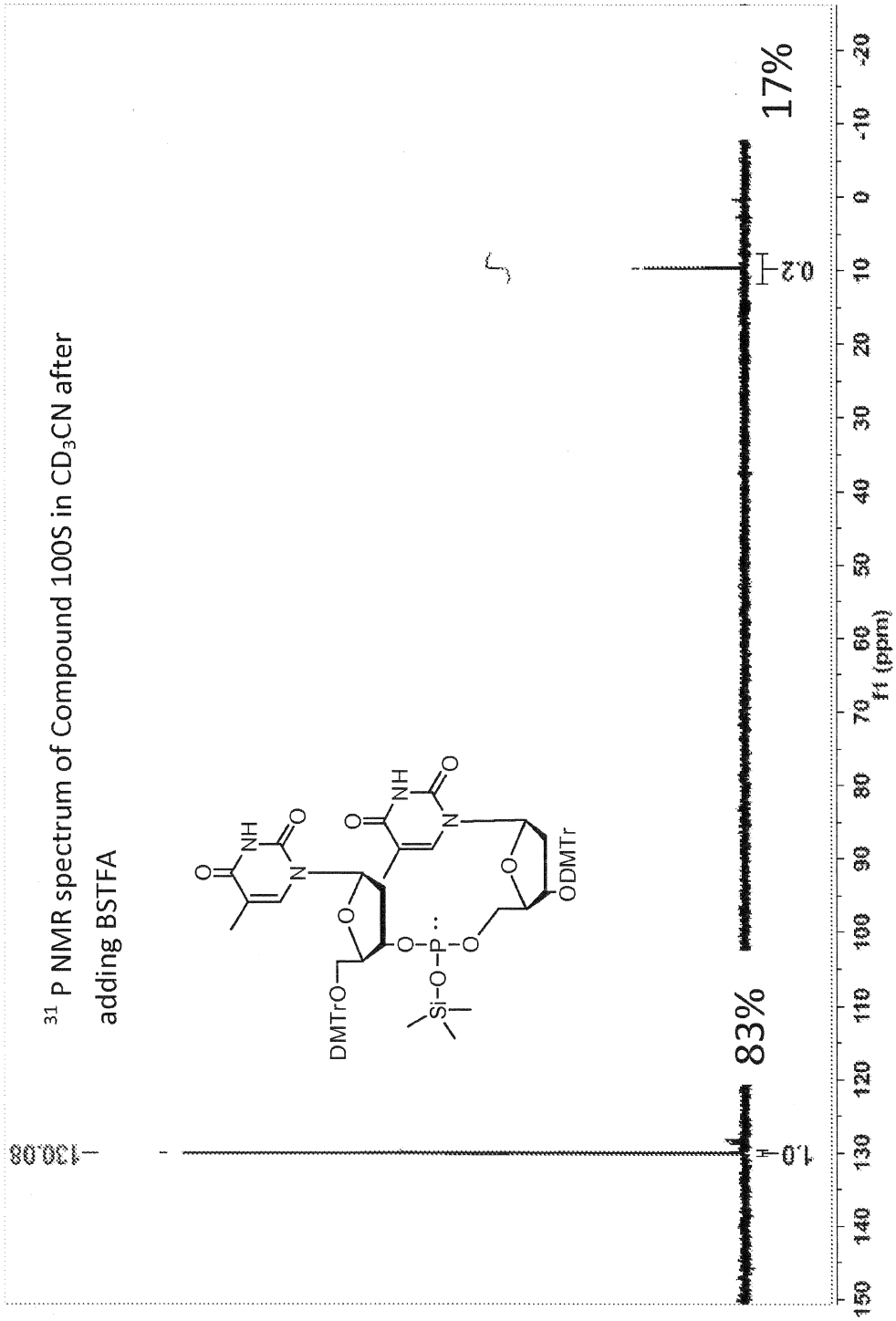

31 P NMR spectrum of Compound 100S in CD3CN after adding BSTFA
130.08
DMTrO
ODMTr
Si
83%
17%
1.0
0.2
f1 (ppm)

FIG. 2

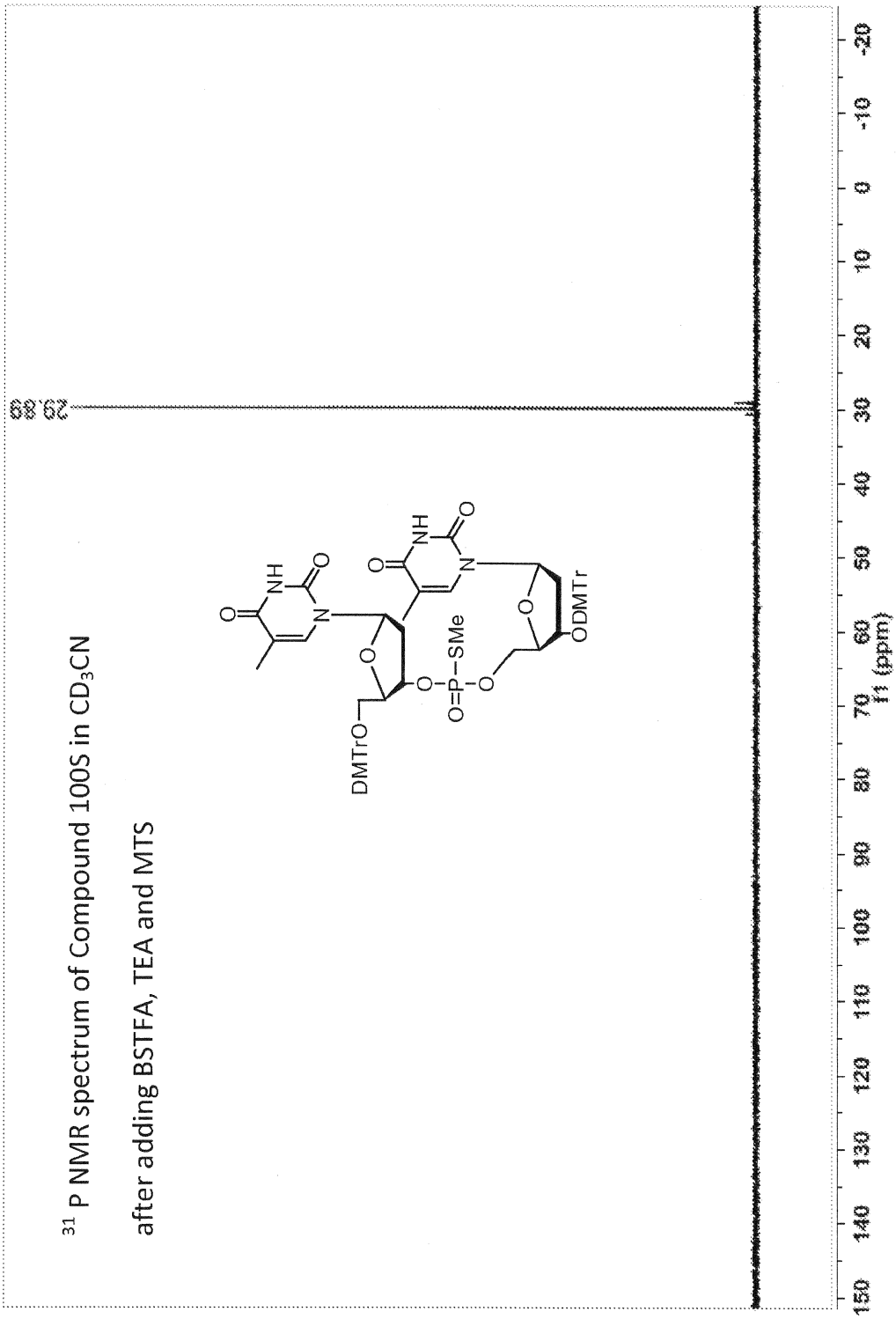

31 P NMR spectrum of Compound 100S in CD3CN
after adding BSTFA, TEA and MTS
29.89
DMTrO
O=P–SMe
ODMTr
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10 -20
f1 (ppm)

FIG. 3

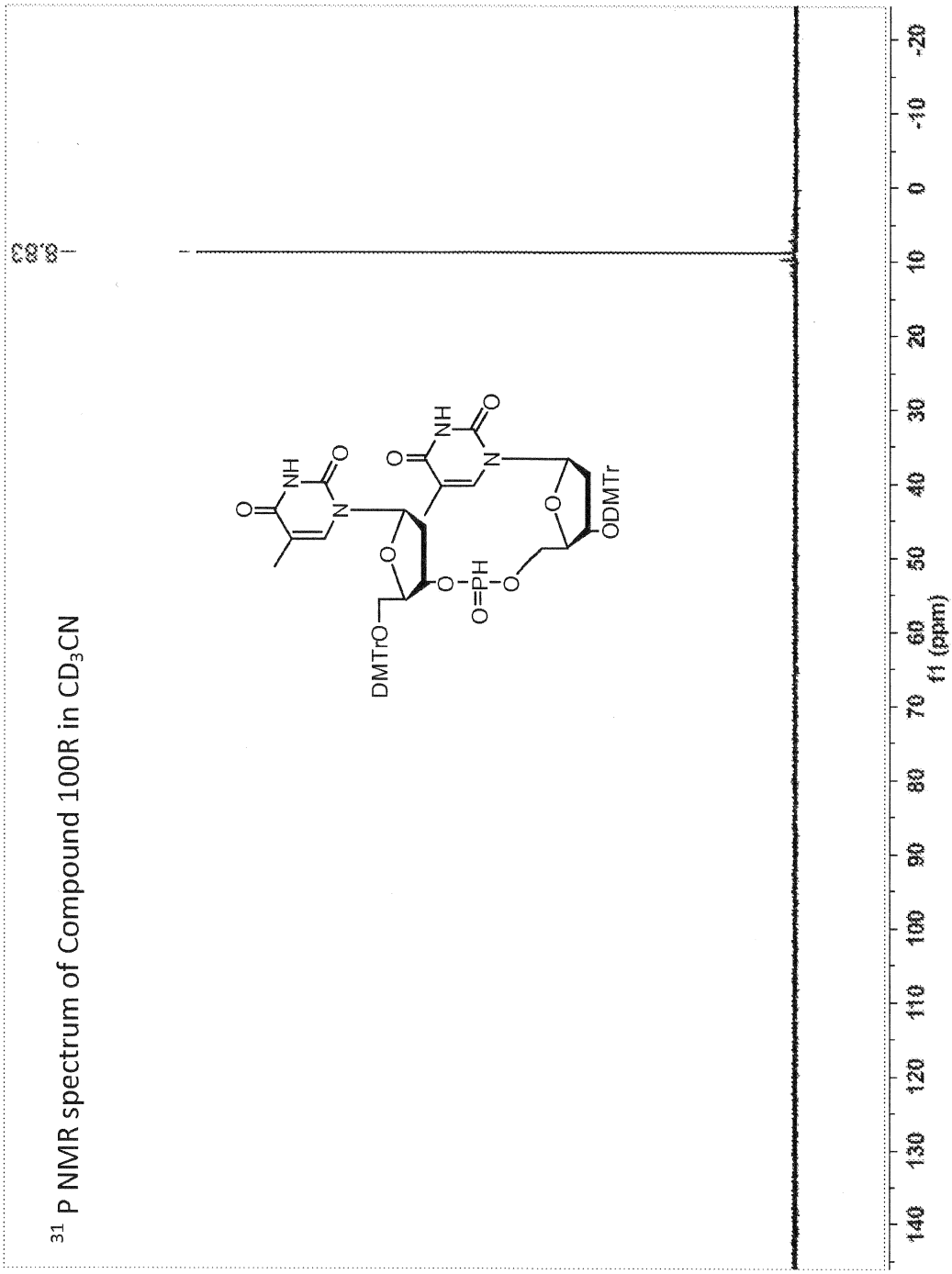

31 P NMR spectrum of Compound 100R in CD3CN
DMTrO
O=PH
ODMTr
f1 (ppm)

FIG. 4

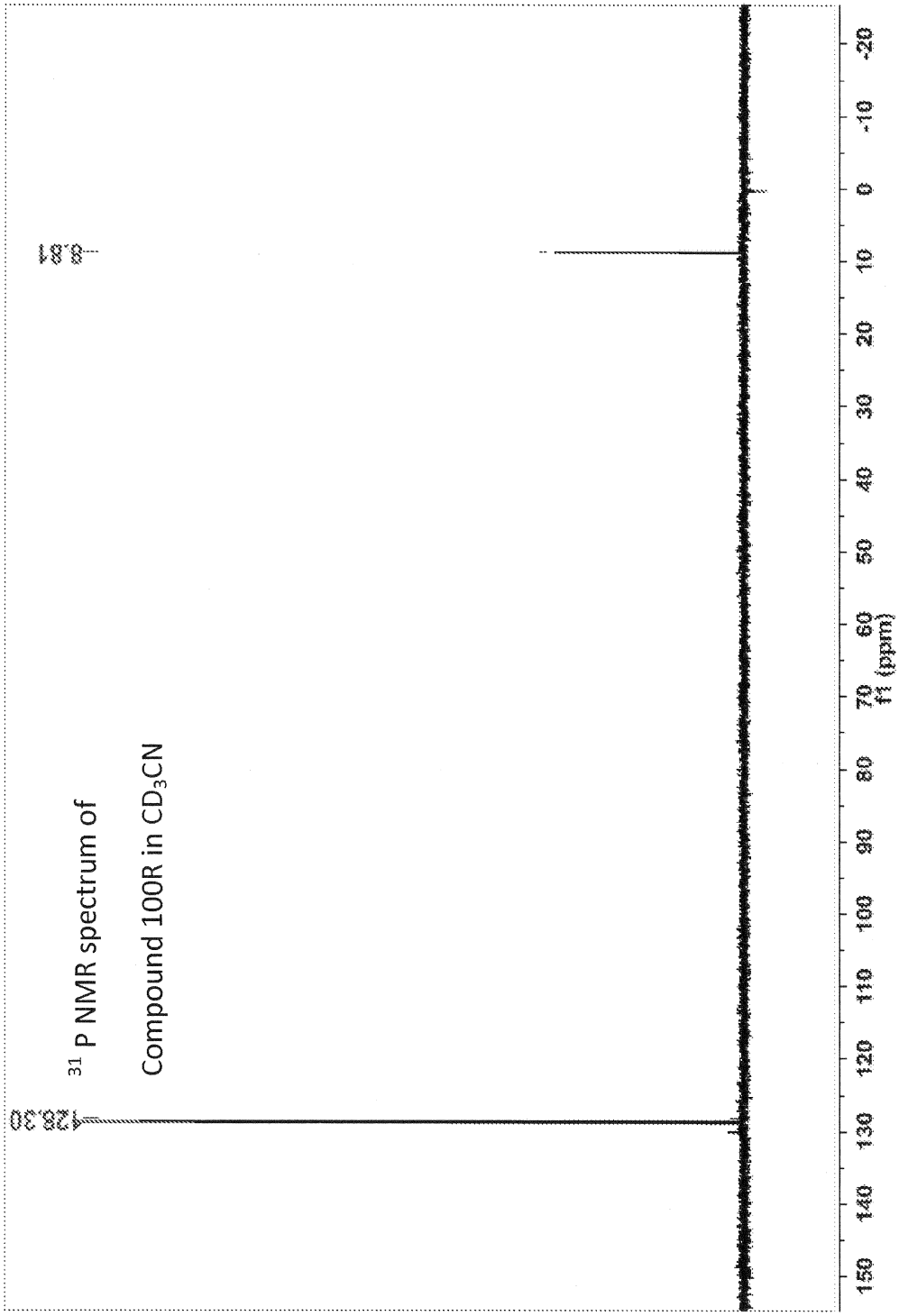

28.30
8.84
$^{31}$P NMR spectrum of
Compound 100R in $CD_3CN$
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10 -20
f1 (ppm)

FIG. 5

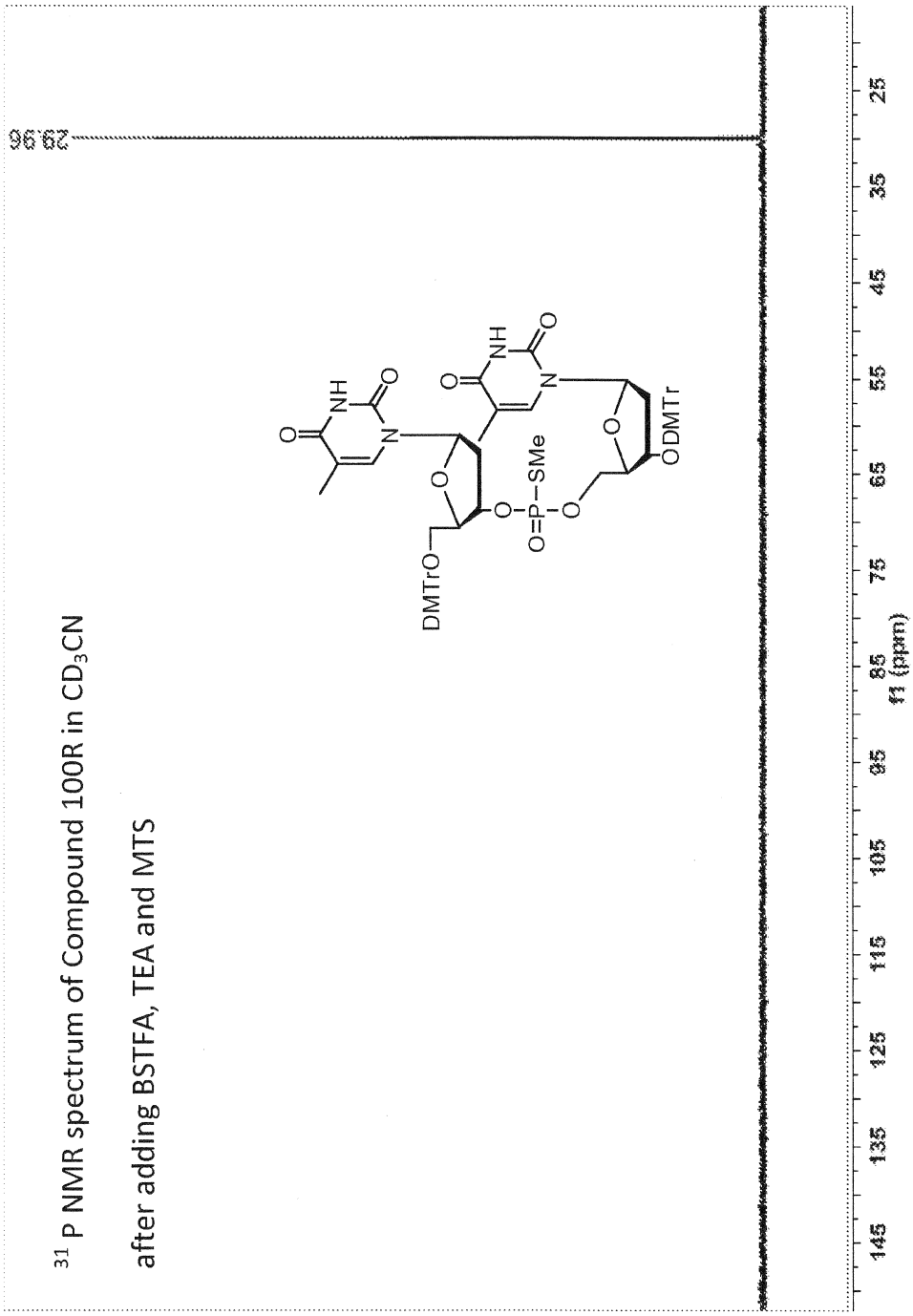

31 P NMR spectrum of Compound 100R in CD3CN
after adding BSTFA, TEA and MTS
29.96
DMTrO
O=P–SMe
ODMTr
NH
O
N
145
135
125
115
105
95
85
75
65
55
45
35
25
f1 (ppm)

FIG. 6