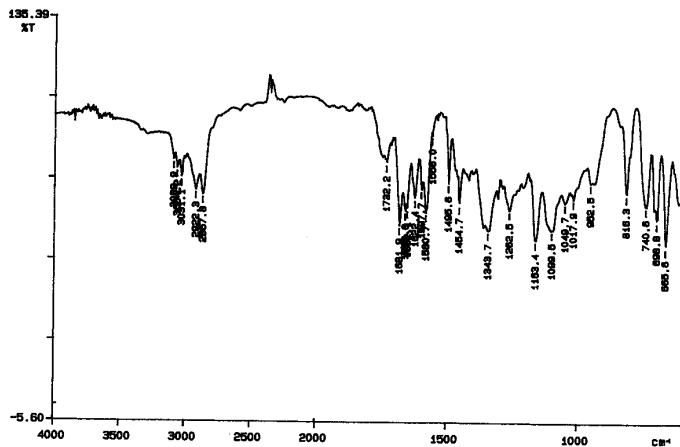
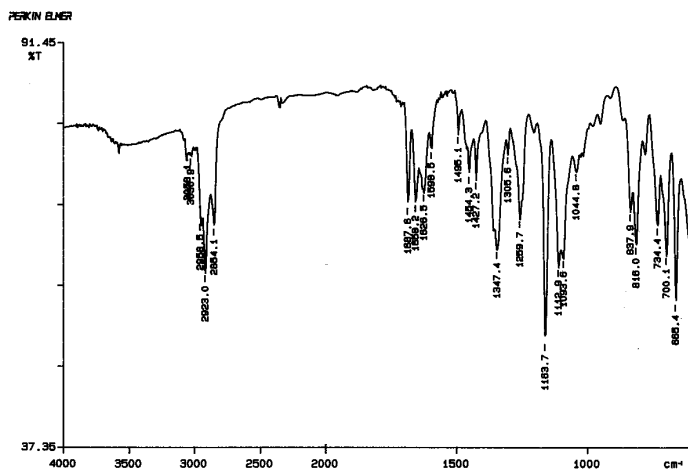
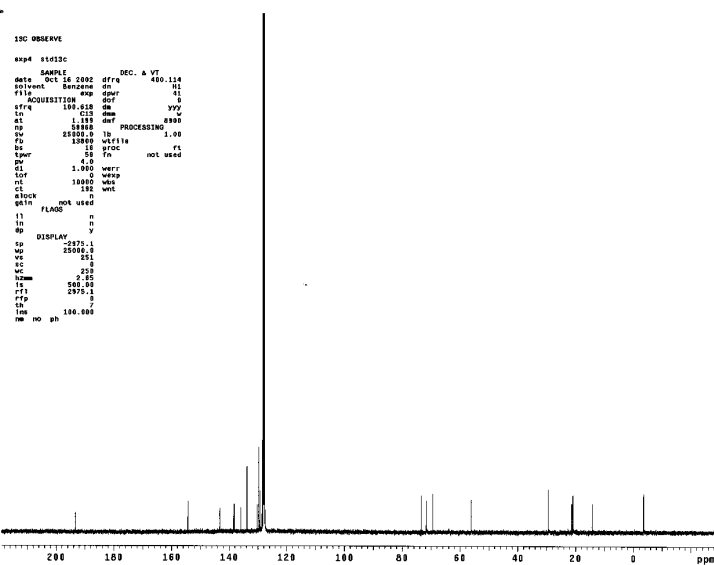
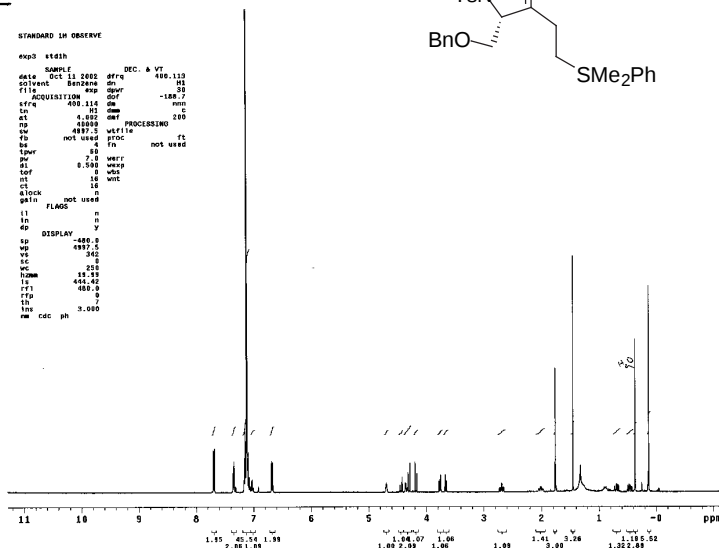


Chemical structure of compound 1: A cyclopentadiene derivative. The ring has a TsN group (tosylnitrogen) at position 1, a BnO group (benzyloxy) at position 2, an acetyl group (COCH₃) at position 3, and a vinyl group (CH=CH₂) at position 4.

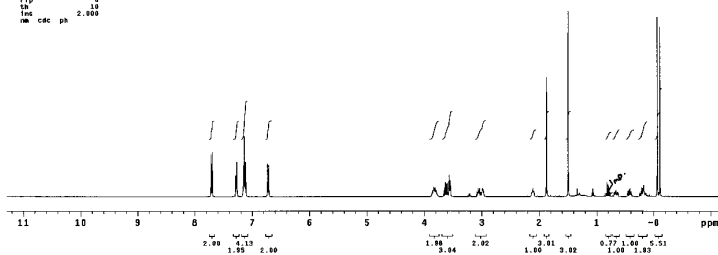
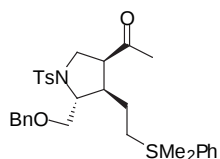
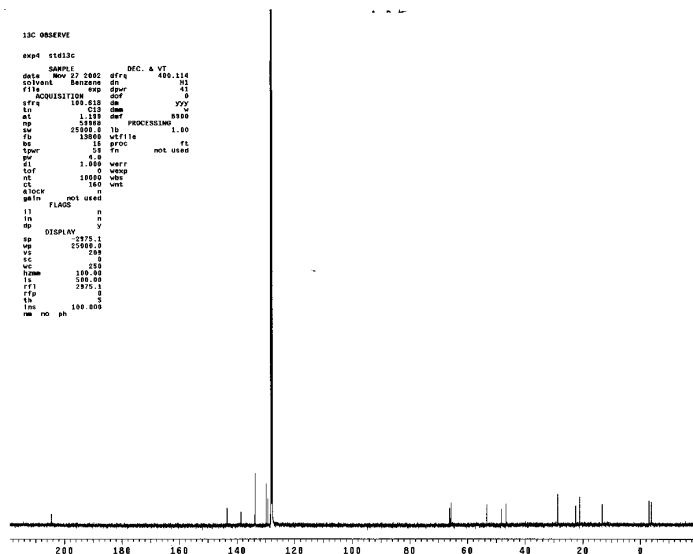


02/04/03 08:40 unspecified
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02/10/11 17:07 unspecified
X: 16 scans, 4.0cm-1

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SAMPLE
date Nov 27 2002      #rr# DEC. & VT 400.113
location Sanzozu      sh  M1
time 14:00             hour 36
ACQUISITION            dof -108.7
in 1n                  m1    mm
fr 1n                   4.0   m
pw 1n                   40.0   c
pd 1n                   400.0 PROCESSING
pr 1n                   4987.5 wfile
ba 1n                   1.0    proc
bs 1n                   2.0    ft
not used              ft not used
tor 1n                  9     werr
cyl 1n                   3     werr
nt 1n                    1     werr
clock 1n                 18    werr
gain 1n                  not used
i1) FLAGS              n
sp 1n                    n
in 1n                    n
sp 1n                   4987.5
uc 1n                    9
uc 1n                    9
uc 1n                    9
h2mm 1n                 19.99
r1 1n                    241.33
r1 1n                    400.0
rfp 1n                   1.0
lo 1n                    1.0
end 1n                   2.000
exp cdc nh
```

[illegible]

69.72
KT

3616.6
3092.1
2922.8
2849.8
1710.0
1606.2
1426.7
1348.0
1182.9
1149.7
1130.5
816.6
791.4
687.8

4000 3500 3000 2500 2000 1500 1000 500

CM⁻¹

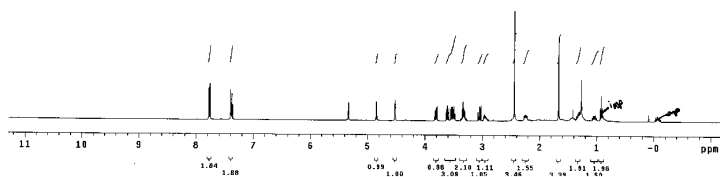
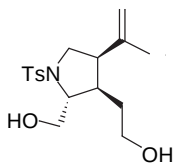
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STANDARD IN OBSERVE

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exp5 161h
SAMPLE DEC 19 2002 dfr DEC. A VT
date 190212 dfr 490.114
solvent CDCl3 dm h1
f1a 100.614 dm 30
ACQUISITION exp dm
sfrq 400.14 dm 0
nt 4.800 dm nno
cp 48000 dm PROCESSING 200
pc 4907.5 wfile
fo not used pvc ft
to 0.500 wexp
t1 0.500 wexp
t2 0.500 wexp
t3 0.500 wexp
t4 0.500 wexp
t5 0.500 wexp
t6 0.500 wexp
t7 0.500 wexp
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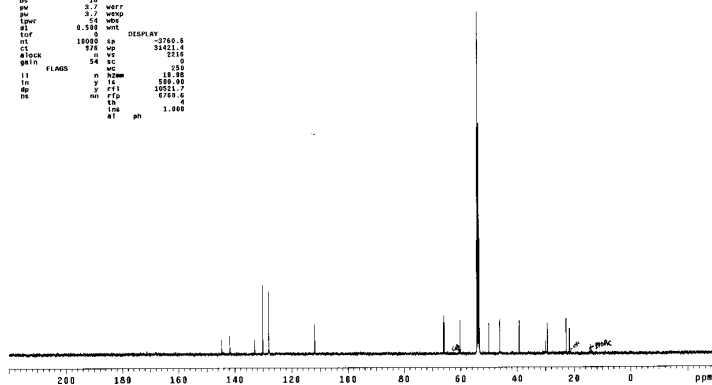


C13pm

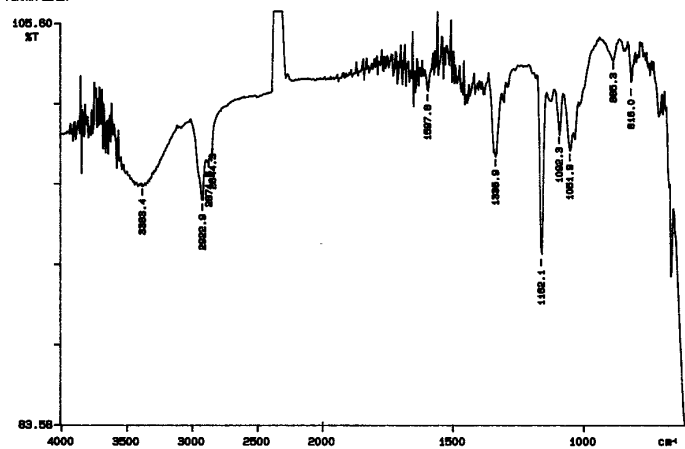
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solvent CDCl3 dfr -180.6
f1a 100.614 dm 30
ACQUISITION exp dm
sfrq 400.14 dm 0
nt 4.800 dm nno
cp 48000 dm PROCESSING 200
pc 4907.5 wfile
fo not used pvc ft
to 0.500 wexp
t1 0.500 wexp
t2 0.500 wexp
t3 0.500 wexp
t4 0.500 wexp
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PERKIN ELMER



02/08/16 17:25 unspecified
X: 16 scans, 4.0cm-1