



Supplementary Materials

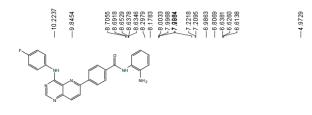
Design, Synthesis and Bioactivity Evaluation of 4,6-disubstituted pyrido[3,2-d]pyrimidine Derivatives as Mnk and HDAC inhibitors

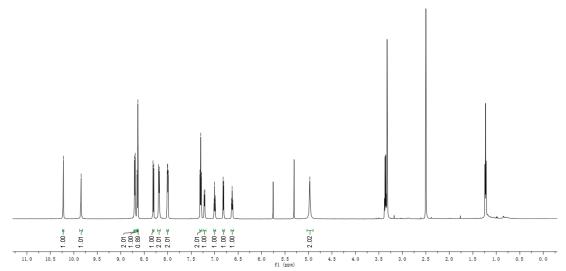
Kun Xing, Jian Zhang, Yu Han, Tong Tong, Dan Liu* and Linxiang Zhao*

Key Laboratory of Structure-Based Drug Design & Discovery of Ministry of Education, Shenyang Pharmaceutical University, Shenyang 110016, China;

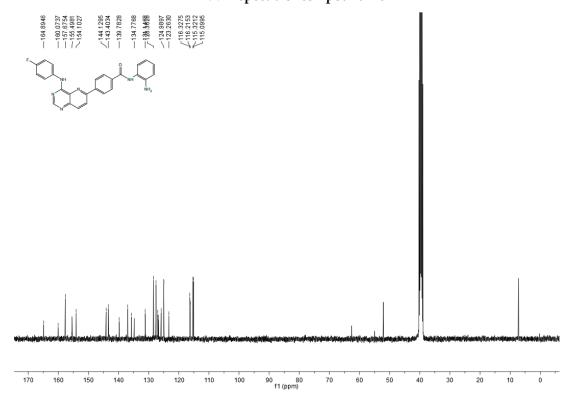
Correspondence: sammyld@163.com (D.L.); linxiang.zhao@vip.sina.com (L.Z.); Tel.: +024-4352-0221 (L.Z.)

1. Spectrum of target compounds



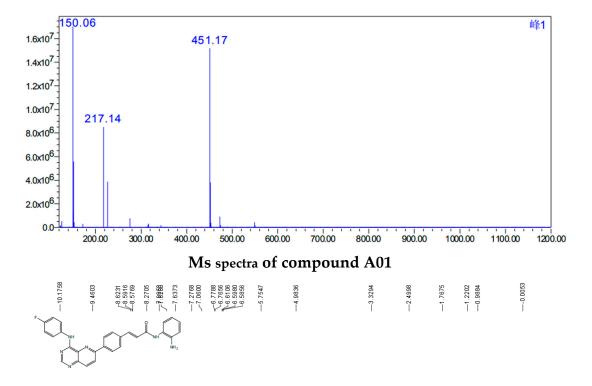


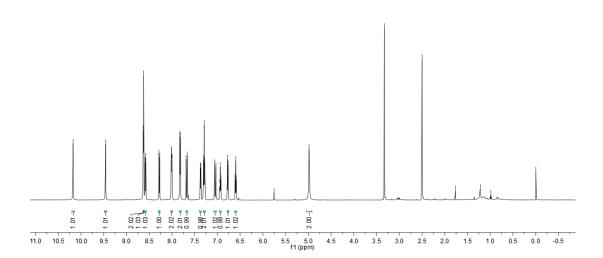
 $^1\mathrm{H} ext{-}\mathrm{NMR}$ spectra of compound A01



¹³C-NMR spectra of compound A01

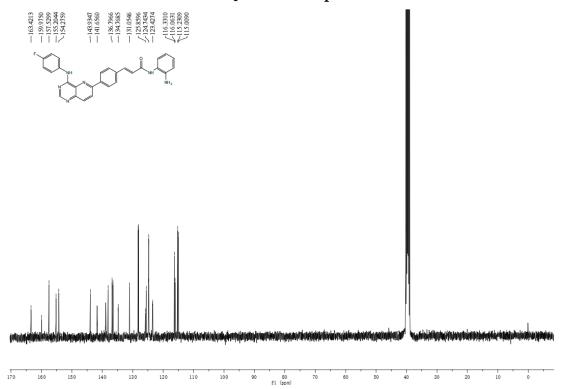
Molecules **2020**, 25, 4318 3 of 30



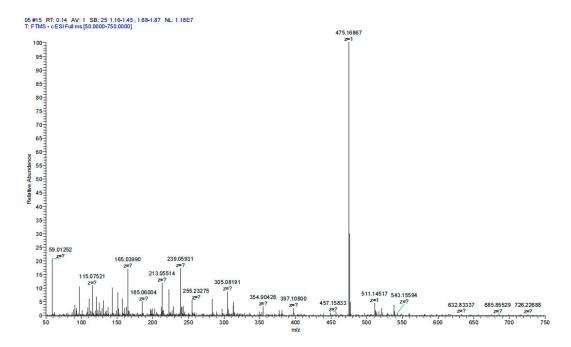


Molecules **2020**, 25, 4318 4 of 30

¹H-NMR spectra of compound A02

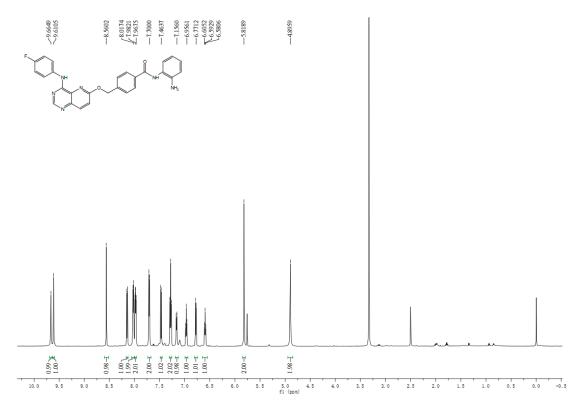


¹³C-NMR spectra of compound A02

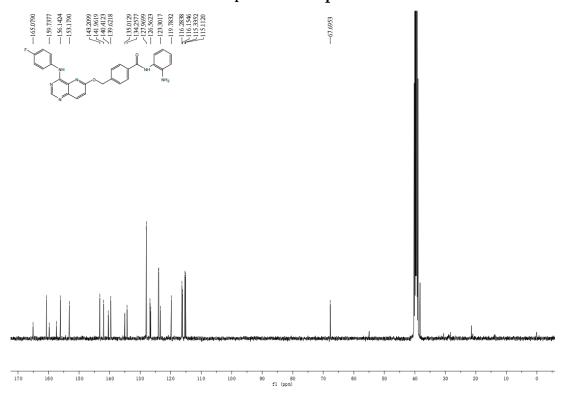


Ms spectra of compound A02

Molecules **2020**, 25, 4318 5 of 30

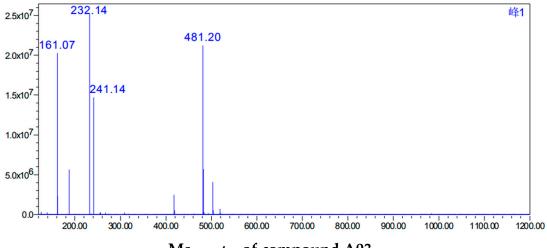


1H -NMR spectra of compound A03

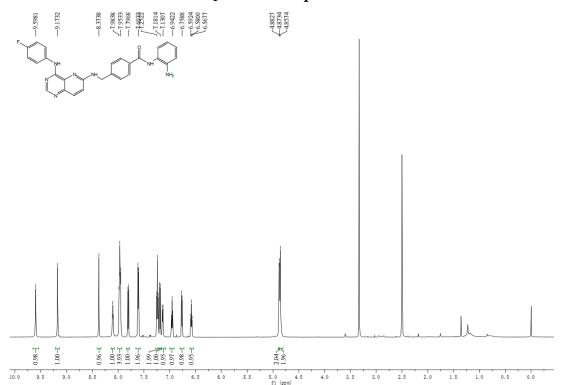


¹³C-NMR spectra of compound A03

Molecules **2020**, 25, 4318 6 of 30

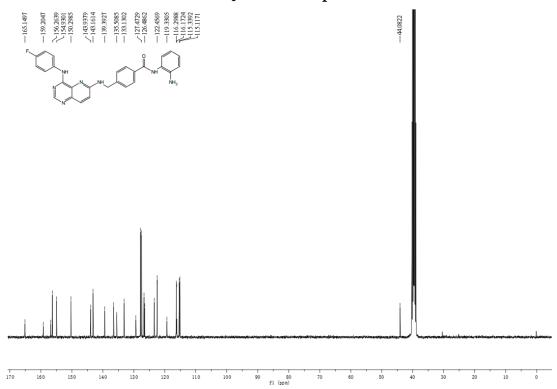


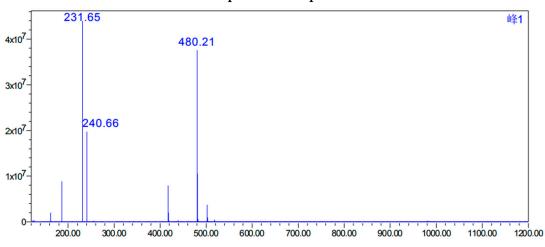
Ms spectra of compound A03



Molecules **2020**, 25, 4318 7 of 30

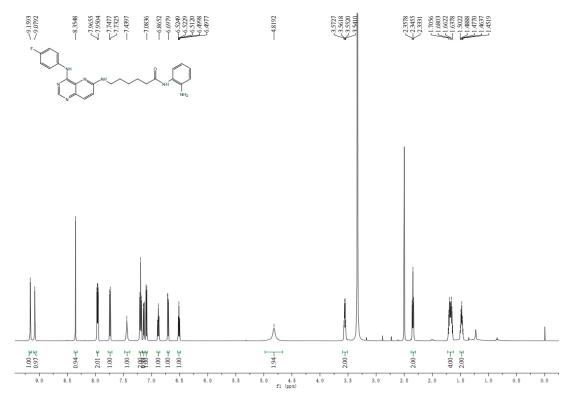
1H -NMR spectra of compound A04

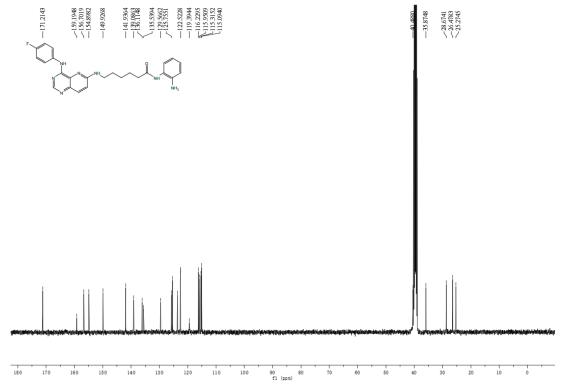




Ms spectra of compound A04

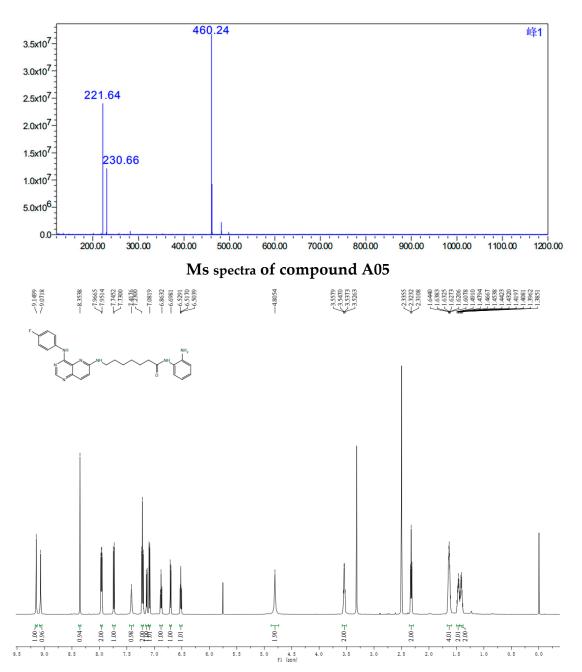
Molecules **2020**, 25, 4318 8 of 30



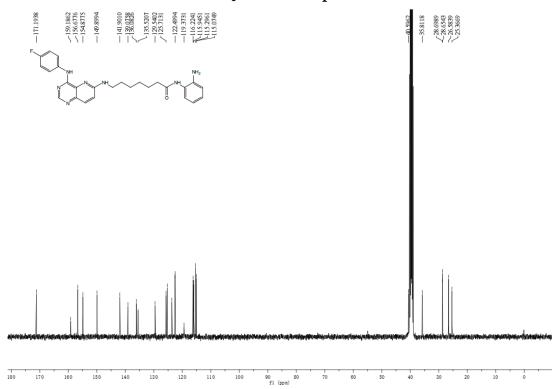


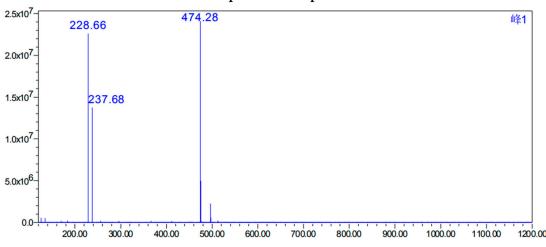
¹³C-NMR spectra of compound A05

Molecules **2020**, 25, 4318 9 of 30

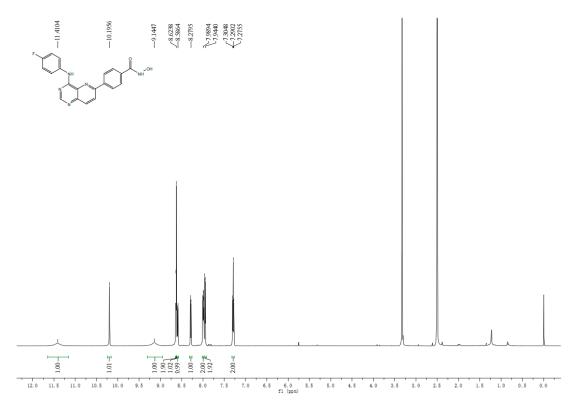


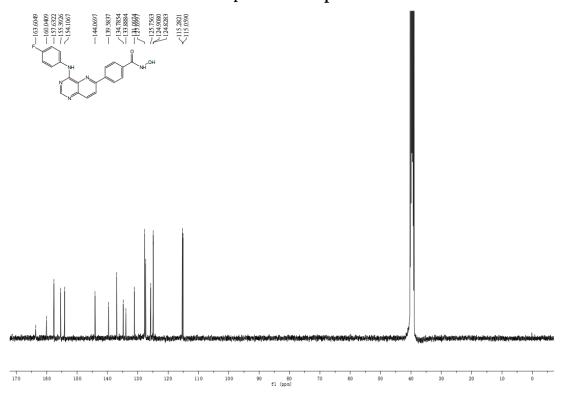
¹H-NMR spectra of compound A06



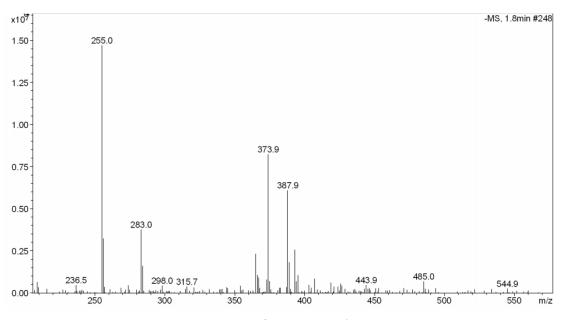


Ms spectra of compound A06

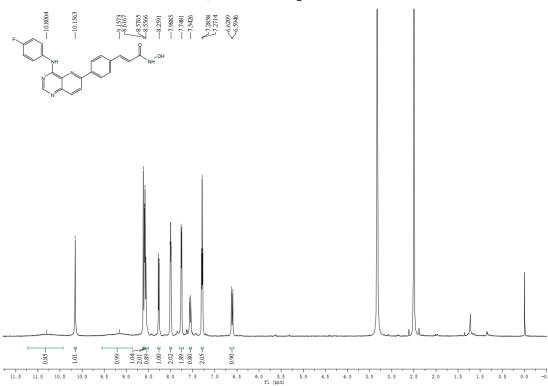




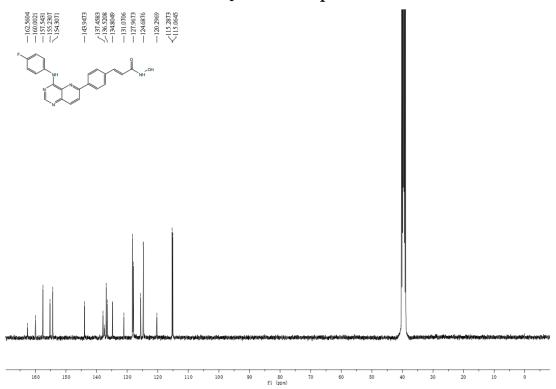
¹³C-NMR spectra of compound A07

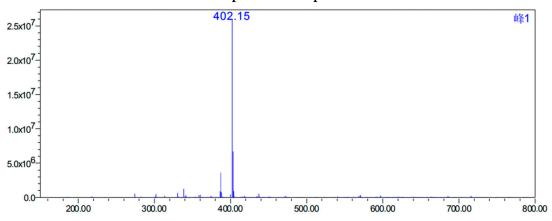


Ms spectra of compound A07

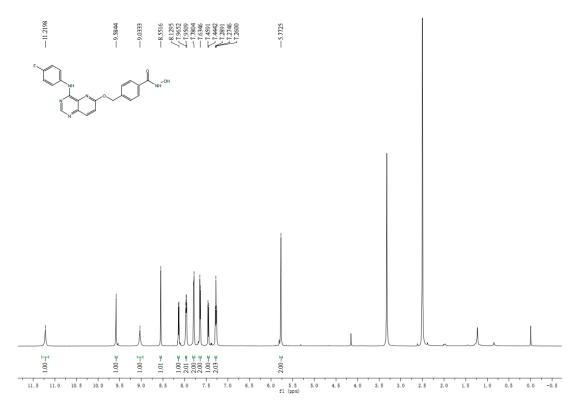


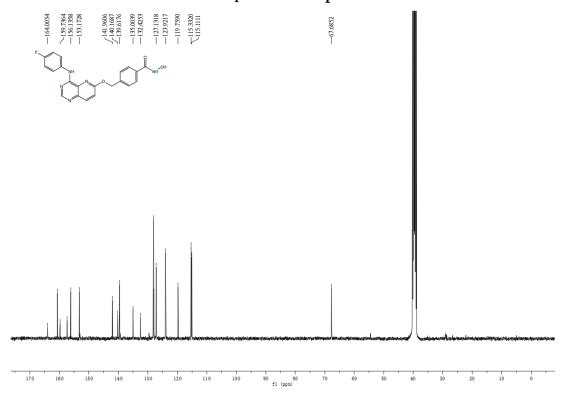
1H -NMR spectra of compound A08



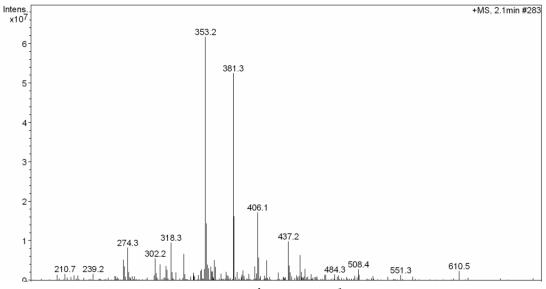


Ms spectra of compound A08

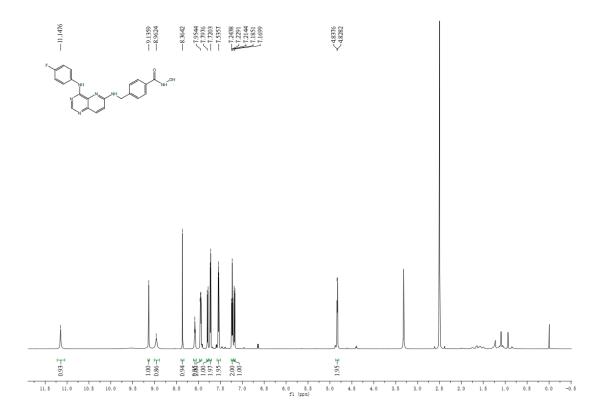




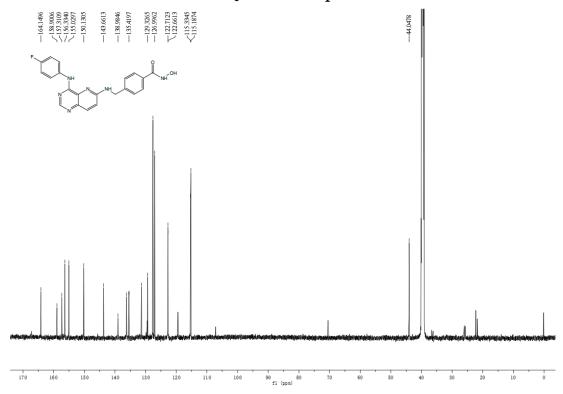
¹³C-NMR spectra of compound A09

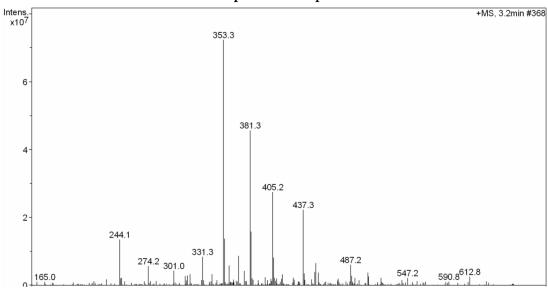


Ms spectra of compound A09

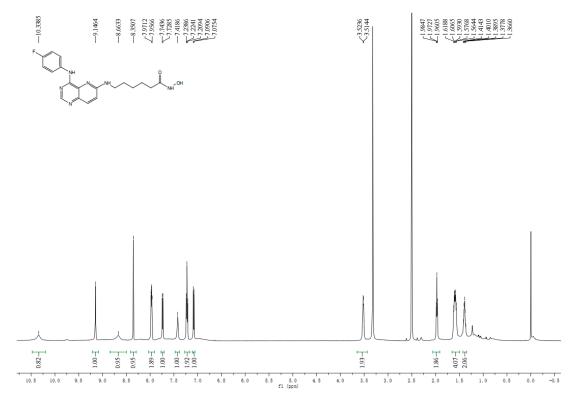


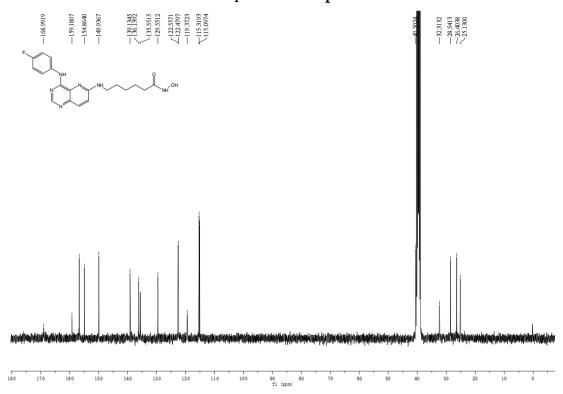
¹H-NMR spectra of compound A10



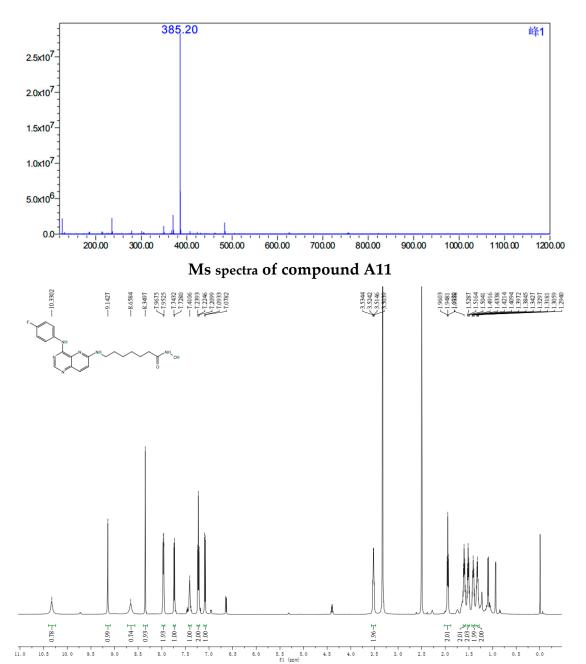


Ms spectra of compound A10

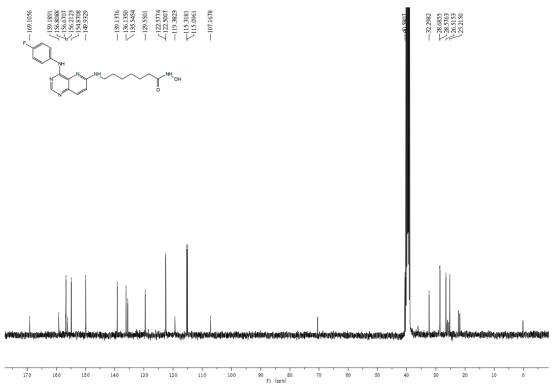


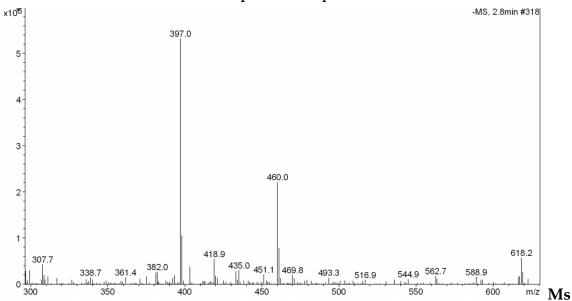


¹³C-NMR spectra of compound A11



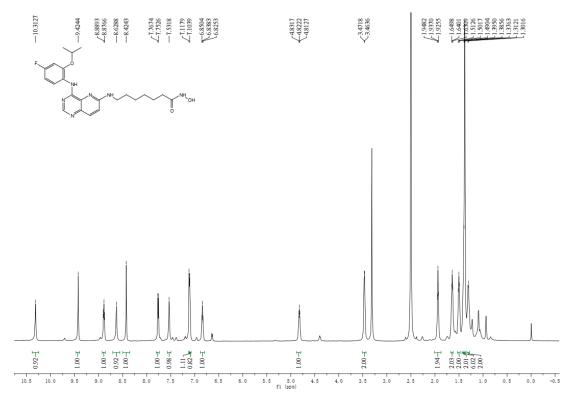
¹H-NMR spectra of compound A12

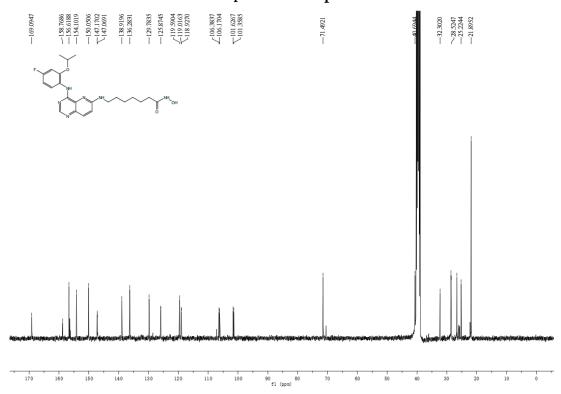




spectra of compound A12

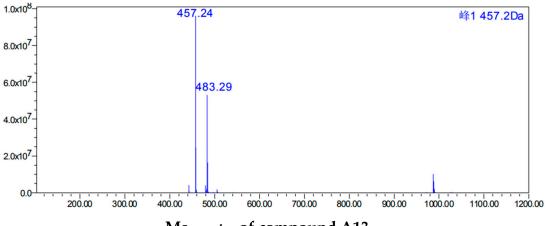
Molecules **2020**, 25, 4318 20 of 30



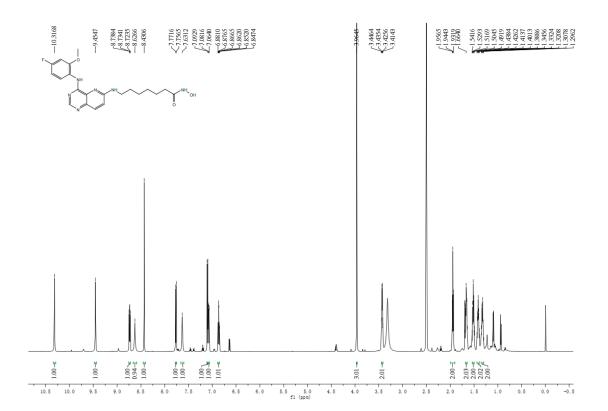


¹³C-NMR spectra of compound A13

Molecules **2020**, 25, 4318 21 of 30

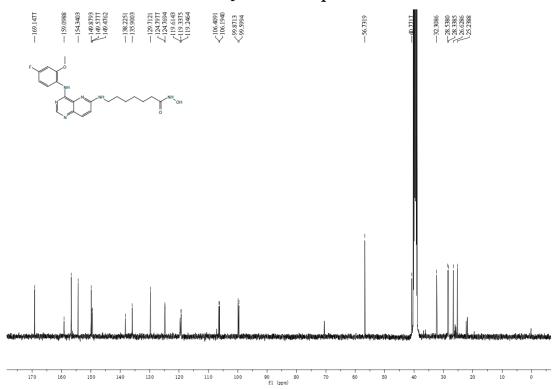


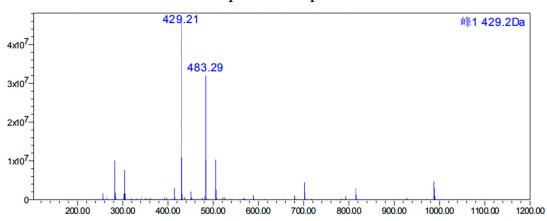
Ms spectra of compound A13



Molecules **2020**, 25, 4318 22 of 30

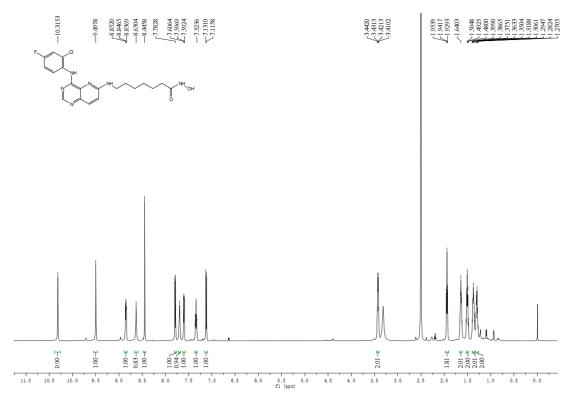
¹H-NMR spectra of compound A14

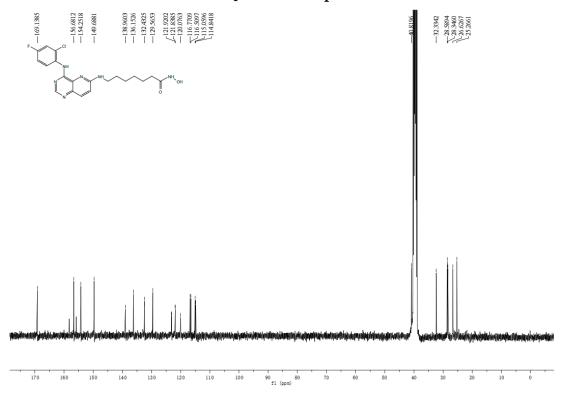




Ms spectra of compound A14

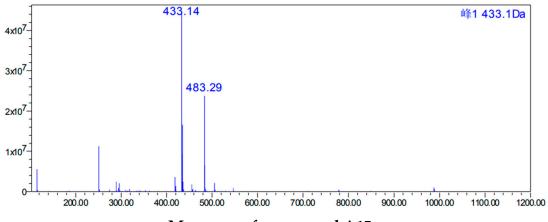
Molecules **2020**, 25, 4318 23 of 30



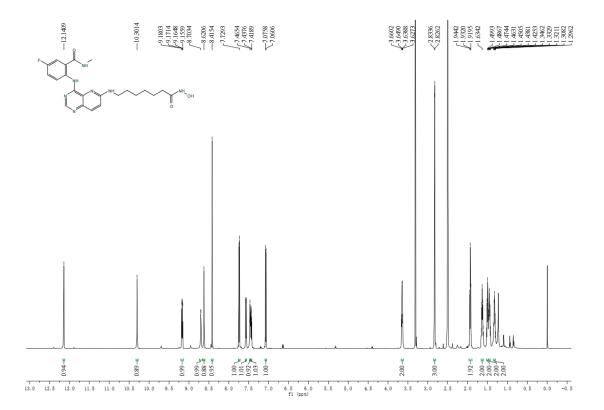


¹³C-NMR spectra of compound A15

Molecules **2020**, 25, 4318 24 of 30

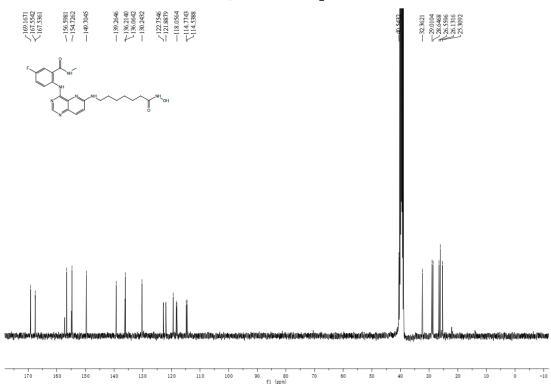


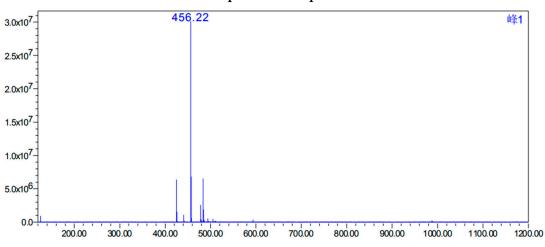
Ms spectra of compound A15



Molecules **2020**, 25, 4318 25 of 30

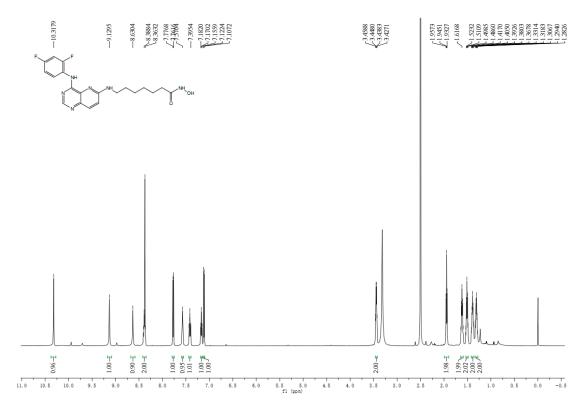
¹H-NMR spectra of compound A16

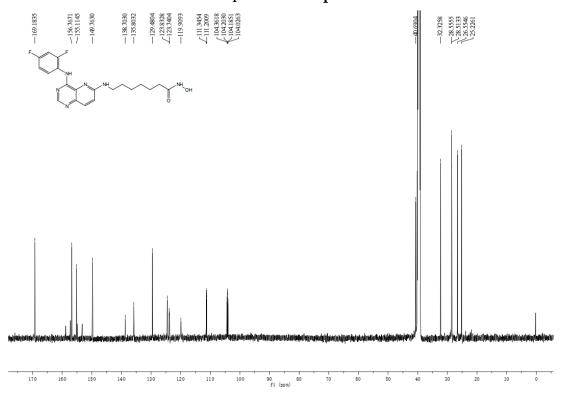




Ms spectra of compound A16

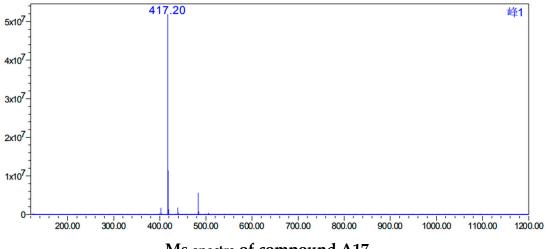
Molecules **2020**, 25, 4318 26 of 30

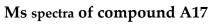


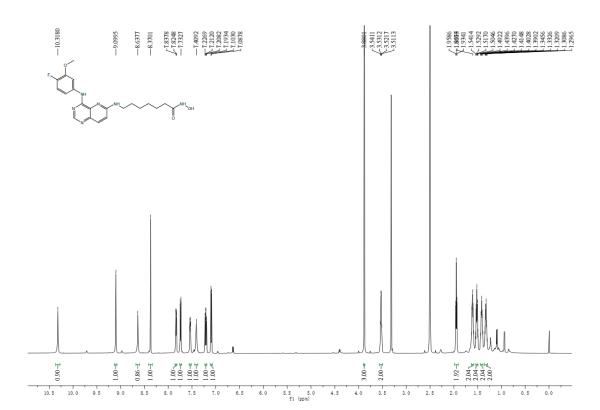


¹³C-NMR spectra of compound A17

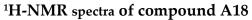
Molecules **2020**, 25, 4318 27 of 30

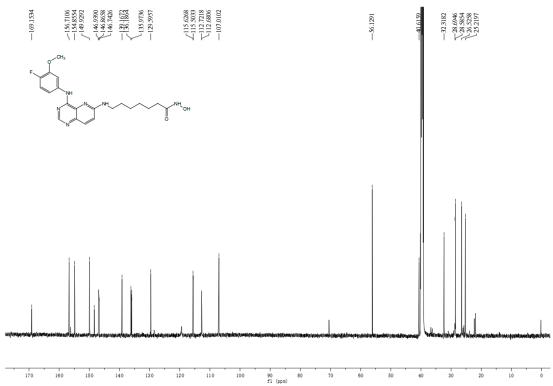


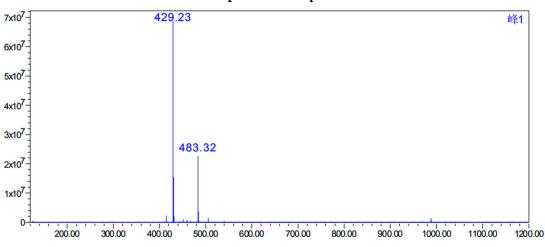




Molecules **2020**, 25, 4318 28 of 30

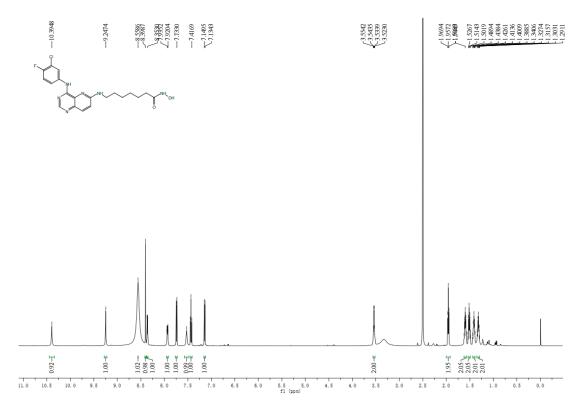


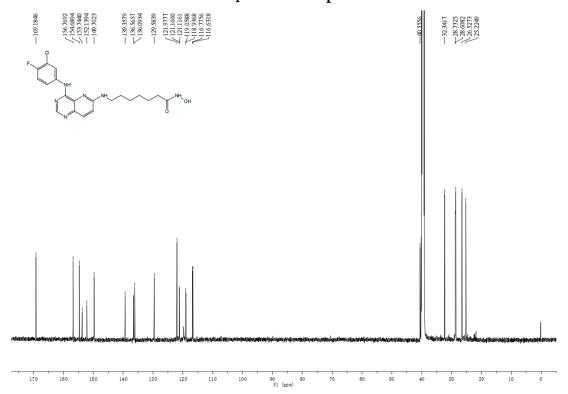




Ms spectra of compound A18

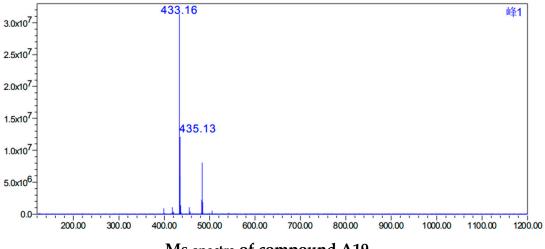
Molecules **2020**, 25, 4318 29 of 30





¹³C-NMR spectra of compound A19

Molecules 2020, 25, 4318 30 of 30



Ms spectra of compound A19