

## *Supporting Information*

### **Novel Benzo[*c*][1,2,5]oxadiazole-Naphthalenediimide Based Copolymer for High-Performance Air-Stable *n*-Type Field-Effect Transistors Exhibiting High Electron Mobility of 2.43 cm<sup>2</sup> V<sup>-1</sup> s<sup>-1</sup>**

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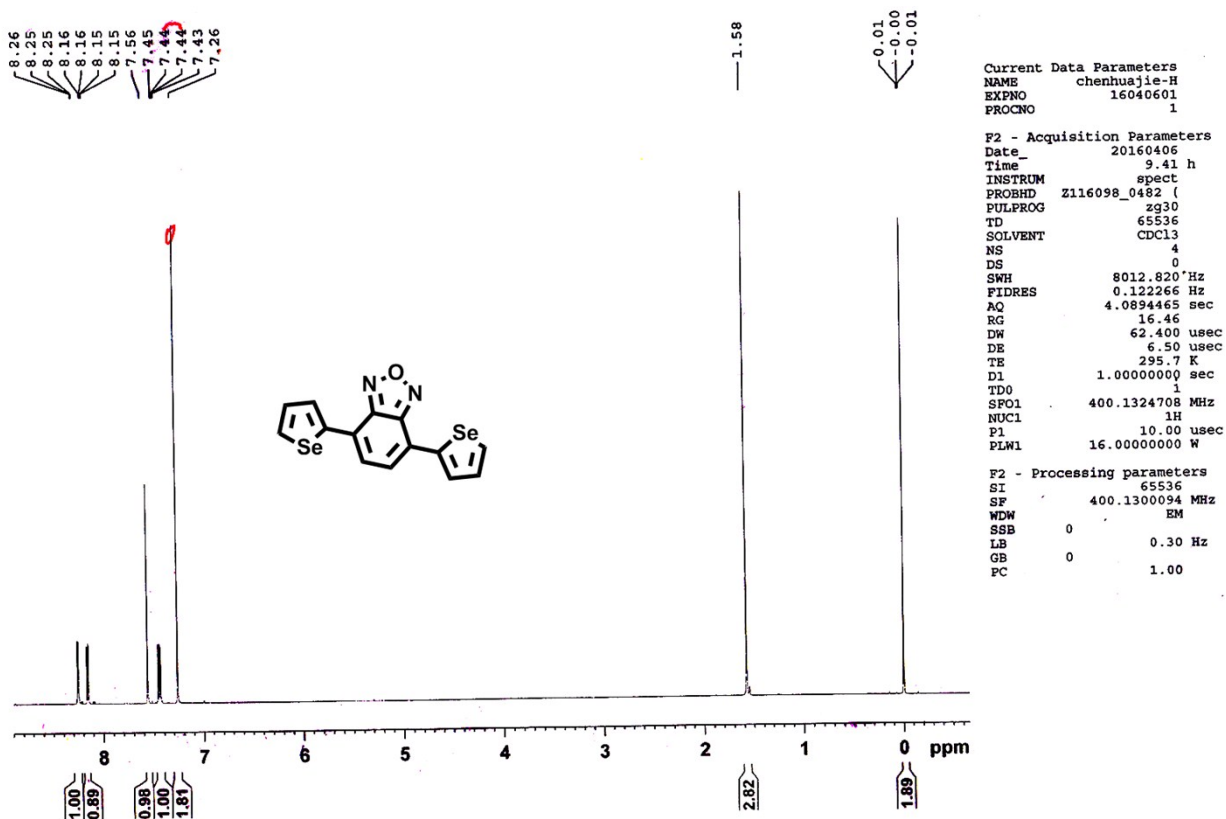


Figure S1.  $^1\text{H}$  NMR spectra of the compound 1.

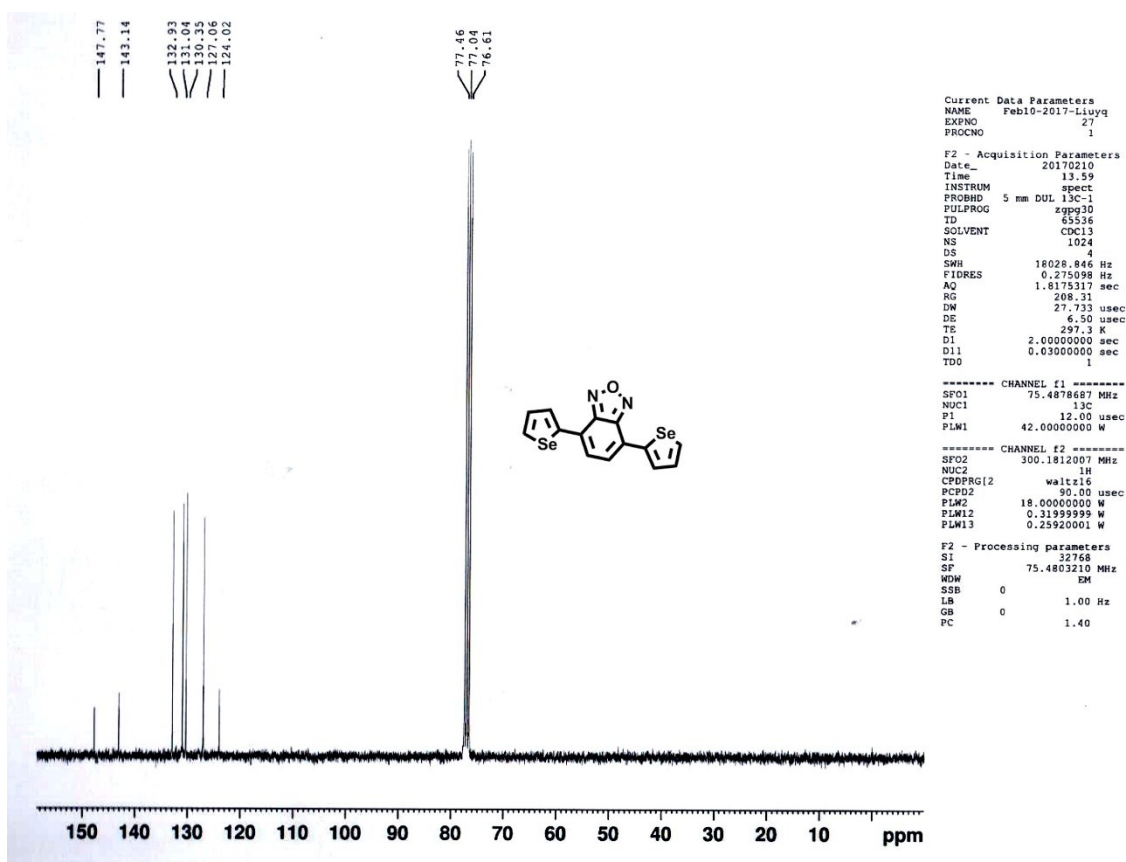


Figure S2.  $^{13}\text{C}$  NMR spectra of the compound 1.

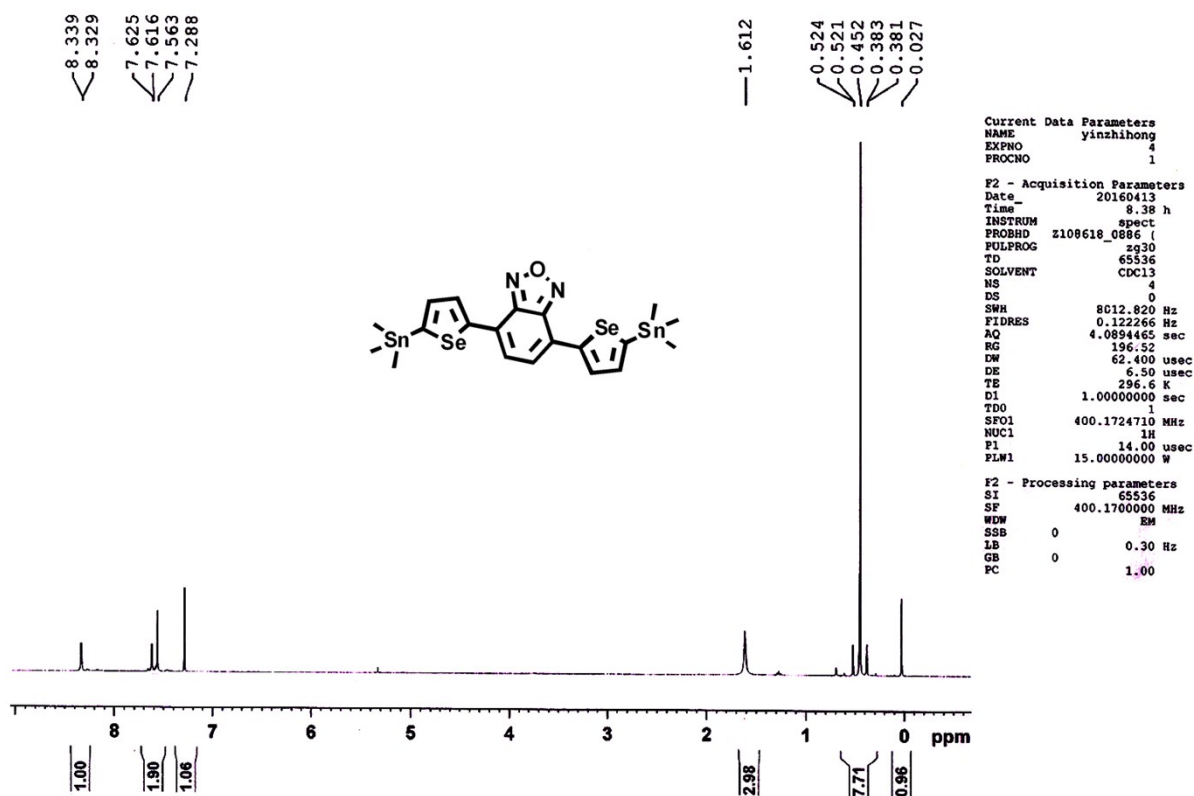


Figure S3. <sup>1</sup>H NMR spectra of the monomer M1.

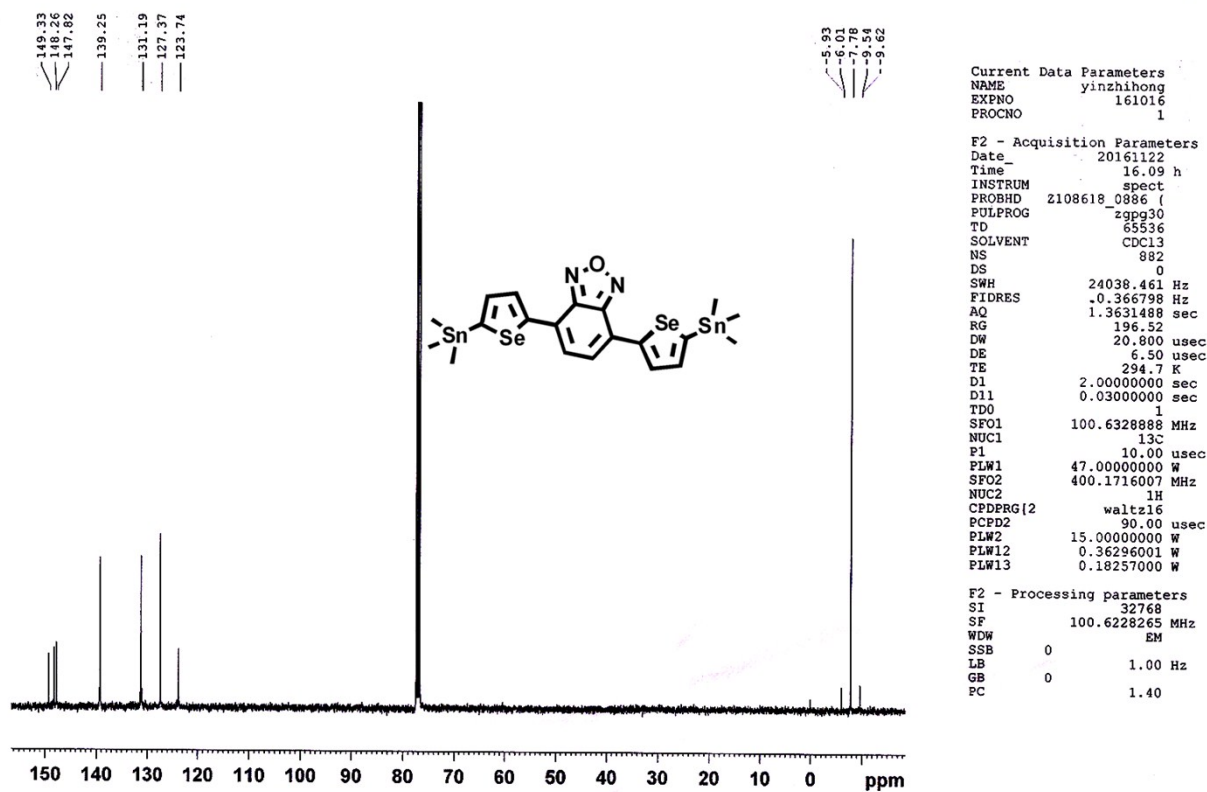


Figure S4. <sup>13</sup>C NMR spectra of the monomer M1.

# MALDI, Y1, 20170210

## Analysis Info

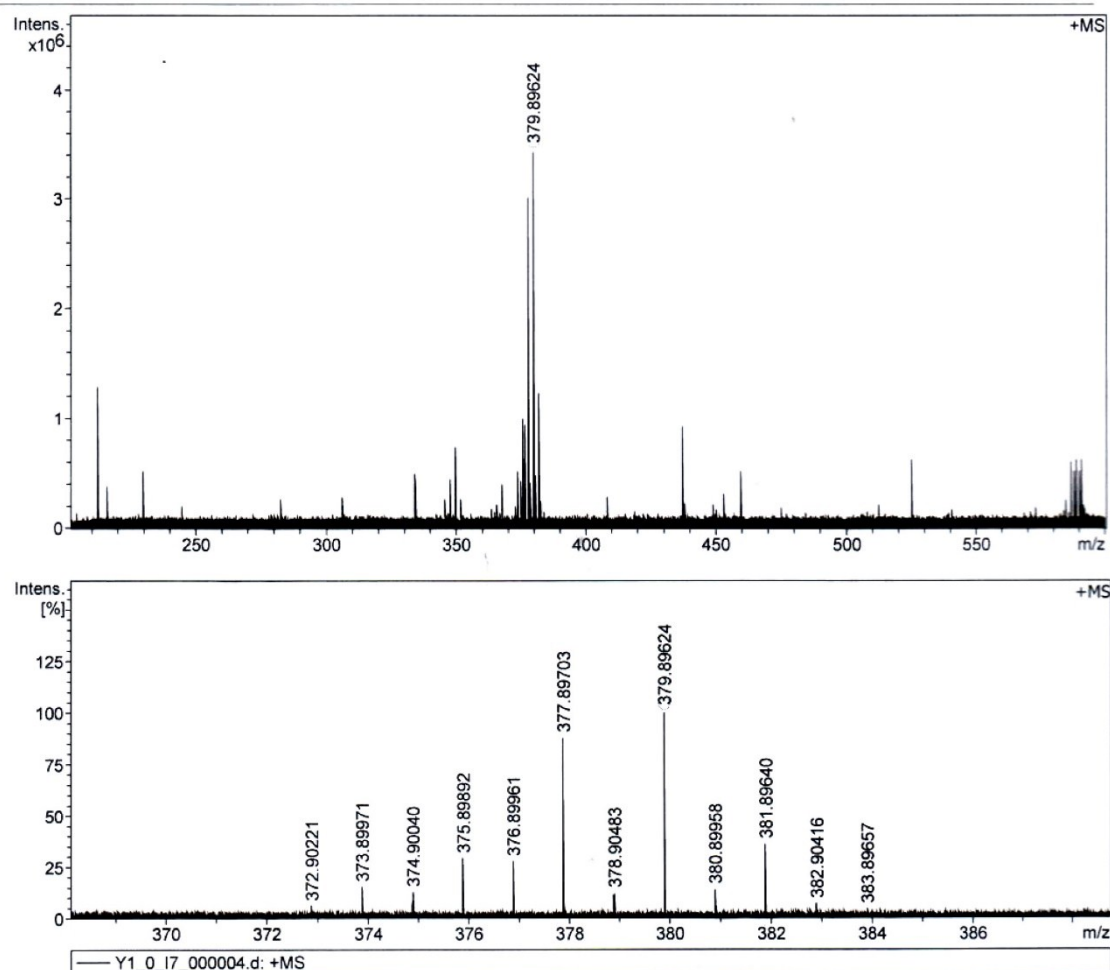
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Operator  
Instrument solariX

## Acquisition Parameter

Acquisition Mode	Single MS	Acquired Scans	3	Calibration Date	Fri Feb 10 03:16:35 2017
Polarity	Positive	No. of Cell Fills	1	Data Acquisition Size	2097152
Broadband Low Mass	202.1 m/z	No. of Laser Shots	10	Data Processing Size	4194304
Broadband High Mass	600.0 m/z	Laser Power	31.2 lp	Apodization	Sine-Bell Multiplication
Source Accumulation	0.001 sec	Laser Shot Frequency	0.020 sec		
Ion Accumulation Time	0.300 sec				



Meas. m/z	#	Ion Formula	Score	m/z	err [ppm]	Mean err [ppm]	mSigma	rdb	e <sup>-</sup> Conf	N-Rule
379.896236	1	C <sub>14</sub> H <sub>8</sub> N <sub>2</sub> OSe <sub>2</sub>	100.00	379.896427	0.5	0.6	72.1	12.0	odd	ok

Figure S5. High-resolution mass spectrum of the compound 1.

# MALDI, YM1, 20170210

## Analysis Info

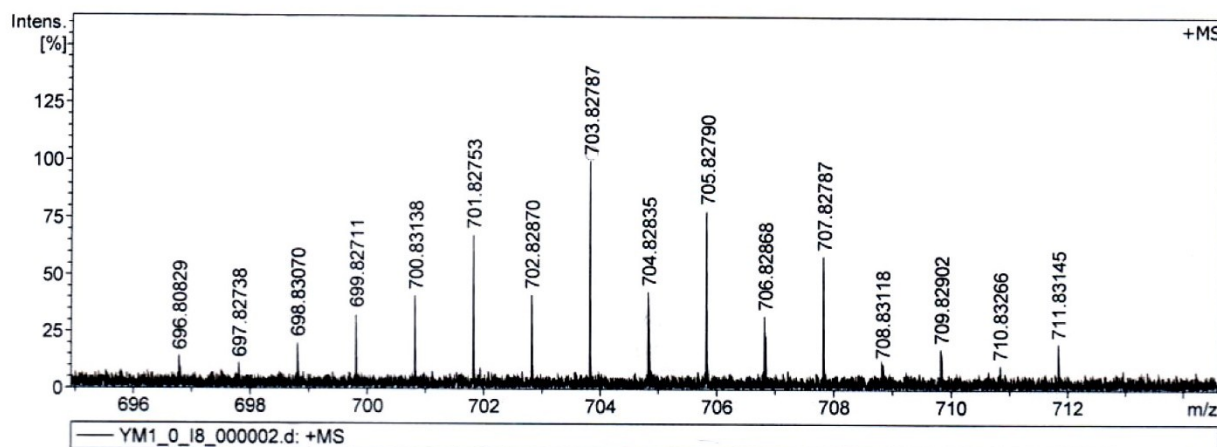
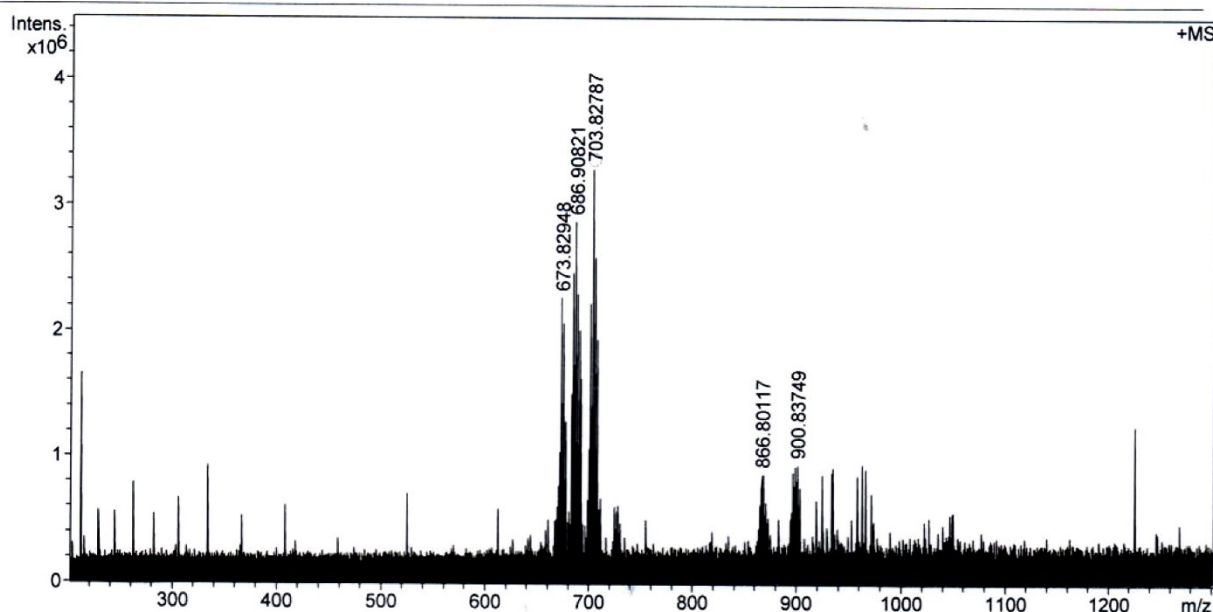
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Operator  
 Instrument solariX

## Acquisition Parameter

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Broadband High Mass	1300.0 m/z	Laser Power	39.4 lp	Apodization	Sine-Bell Multiplication
Source Accumulation	0.001 sec	Laser Shot Frequency	0.020 sec		
Ion Accumulation Time	0.300 sec				



Meas. m/z	#	Ion Formula	Score	m/z	err [ppm]	Mean err [ppm]	mSigma	rdb	e <sup>-</sup> Conf	N-Rule
703.827871	1	C <sub>20</sub> H <sub>24</sub> N <sub>2</sub> OSe <sub>2</sub> Sn <sub>2</sub>	100.00	703.827321	-0.8	-0.6	122.6	12.0	odd	ok

Figure S6. High-resolution mass spectrum of the monomer M1.