

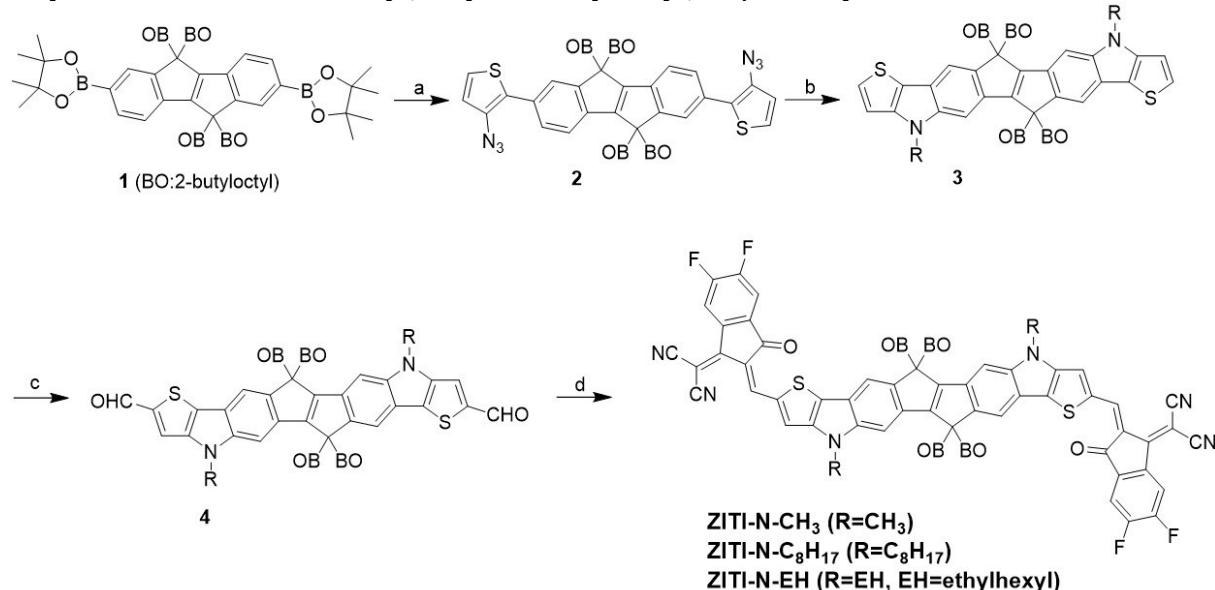
## Supporting Information

### PCE11-Based Polymer Solar Cells with High Efficiency over 13% Achieved by Room-Temperature Processing

Jianyun Zhang, Wenrui Liu, Ming Zhang, Shengjie Xu\*, Feng Liu, and Xiaozhang Zhu\*

#### Synthetic Procedures

The synthetic route for compound ZITI-N-R is similar with the synthesis of ZITI-N,<sup>50</sup> the alkylation reaction with methyl, octyl and ethylhexyl, respectively.



**Scheme S1.** Synthesis of ZITI-N-R NFAs. Reagents and conditions: a, (i) 2,3-Dibromothiophene, Pd(PPh<sub>3</sub>)<sub>4</sub>, THF; (ii) *n*-BuLi, Tos-N<sub>3</sub>, THF. b, (i) *o*-dichlorobenzene, 160 °C; (ii) NaH, CH<sub>3</sub>I, DMF. c, POCl<sub>3</sub>, DMF. d, INCN-2F, pyridine, CHCl<sub>3</sub>.

**Compound ZITI-N-C<sub>8</sub>H<sub>17</sub>.** <sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>): δ 8.99 (s, 2H), 8.54 (m, 2H), 7.87 (s, 2H), 7.82 (s, 2H), 7.69 (t, <sup>3</sup>J = 7.5 Hz, 2H), 7.26 (s, 2H), 4.29 (m, 4H), 2.17 (m, 8H), 1.94(m, 4H), 1.30-0.50 (m, 118H); HRMS (MALDI-TOF) calcd for C<sub>100</sub>H<sub>118</sub>F<sub>4</sub>N<sub>6</sub>O<sub>2</sub>S<sub>2</sub> [M]<sup>+</sup>: 1771.0879, found, 1771.0874.

**Compound ZITI-N-EH.** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>): δ 8.97 (s, 2H), 8.54 (m, 2H), 7.89 (s, 2H), 7.82 (s, 2H), 7.69 (t, <sup>3</sup>J = 7.6 Hz, 2H), 7.30 (s, 2H), 4.18 (m, 4H), 2.13 (m, 10H), 1.20-0.50 (m, 120H); HRMS (MALDI-TOF) calcd for C<sub>100</sub>H<sub>118</sub>F<sub>4</sub>N<sub>6</sub>O<sub>2</sub>S<sub>2</sub> [M]<sup>+</sup>: 1771.0879, found, 1771.0871.

#### ZITI-N-CH<sub>3</sub>:

2,2'-[[6,6,13,13-tetrakis(2-butyloctyl)-4,11-dimethyl-4,6,11,13-tetrahydropentaleno[2,1-*f*:5,4-*f*]dithieno[3,2-*b*:3',2'-*b*']diindole-2,9-diyl]bis[methylidyne(5,6-difluoro-3-oxo-1*H*-indene-2,1(3*H*)-diylidene)]]bis[malononitrile]

#### ZITI-N-C<sub>8</sub>H<sub>17</sub>:

2,2'-[[6,6,13,13-tetrakis(2-butyloctyl)-4,11-dioctyl-4,6,11,13-tetrahydropentaleno[2,1-*f*:5,4-*f*]dithieno[3,2-*b*:3',2'-*b*']diindole-2,9-diyl]bis[methylidyne(5,6-difluoro-3-oxo-1*H*-indene-2,1(3*H*)-diylidene)]]bis[malononitrile]

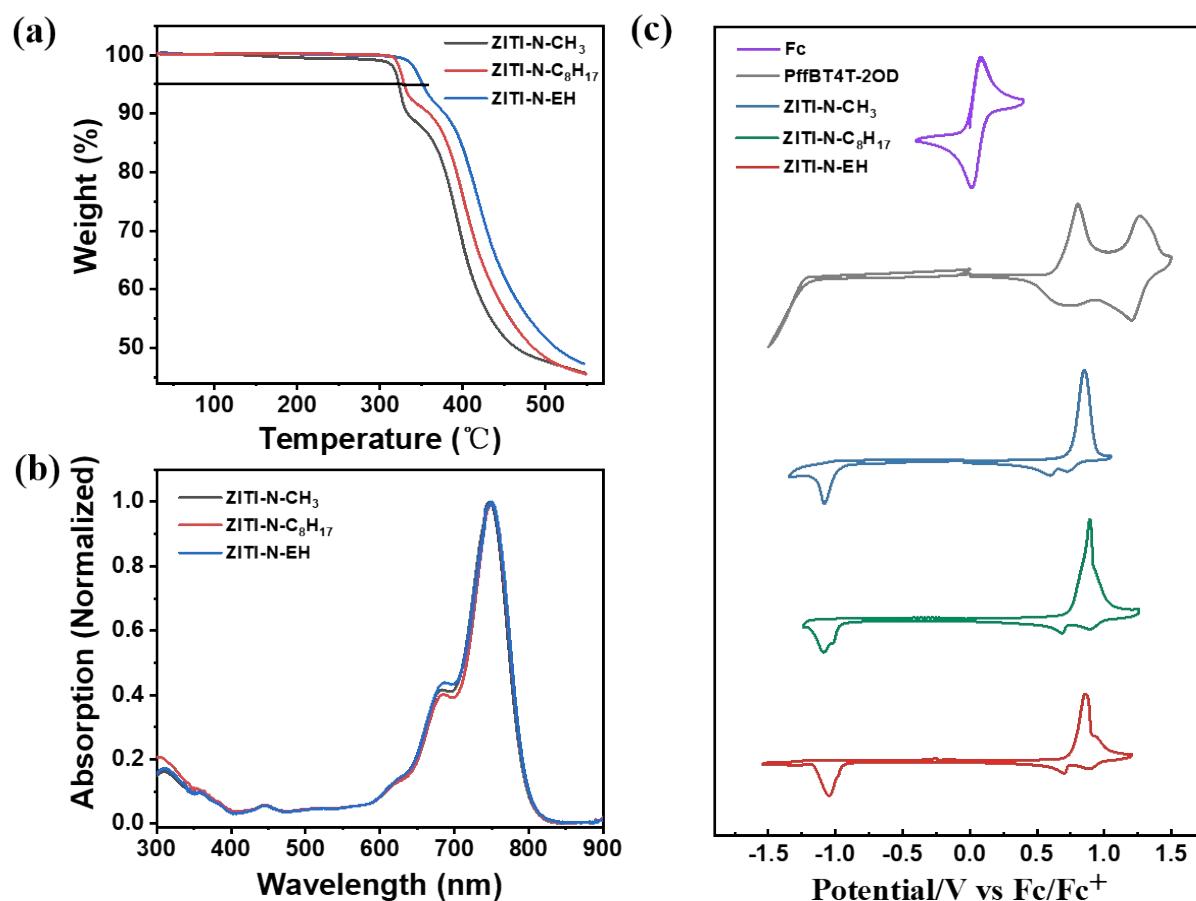
**ZITI-N-EH:**

2,2'-[[6,6,13,13-tetrakis(2-butyloctyl)-4,11-2-ethylhexyl-4,6,11,13-tetrahydropentaleno[2,1-f;5,4-f']dithieno[3,2-b;3',2'-b']diindole-2,9-diyl]bis[methylidyne(5,6-difluoro-3-oxo-1H-indene-2,1(3H)-dilidene)]]bis[malononitrile]

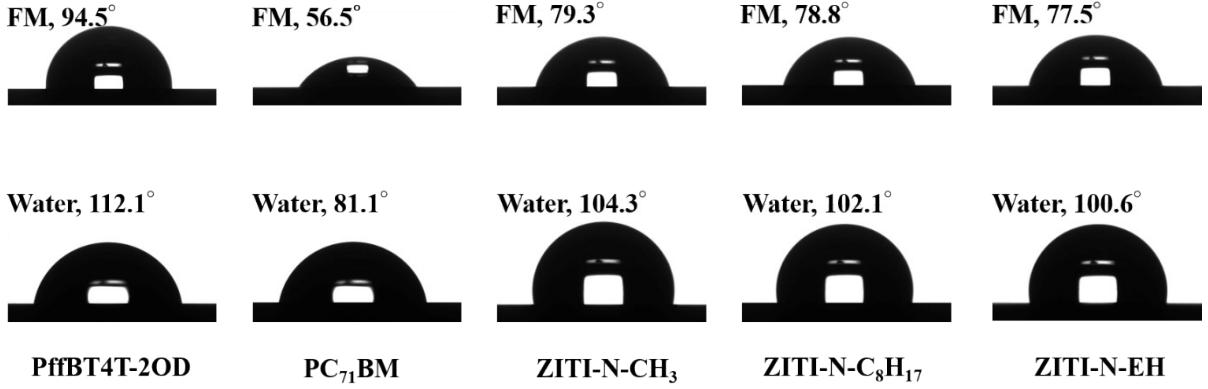
The preparation of ZnO sol-gel is based on the reference (*Adv. Mater.*, 2013, **25**, 2397–2402). The detail process is shown below:

Zinc acetate dihydrate [Zn(CH<sub>3</sub>COO)<sub>2</sub>•2H<sub>2</sub>O] (Aldrich, 99.9%) with 0.1 M concentration was first dissolved in anhydrous ethanol [CH<sub>3</sub>CH<sub>2</sub>OH] (99.5+% Aldrich) and rigorously stirred for 2–3 h at 80 °C. Subsequently, ethanolamine was added to the solution as sol stabilizer followed by thorough mixing process with magnetic stirrer for 12–15 h at 60 °C.

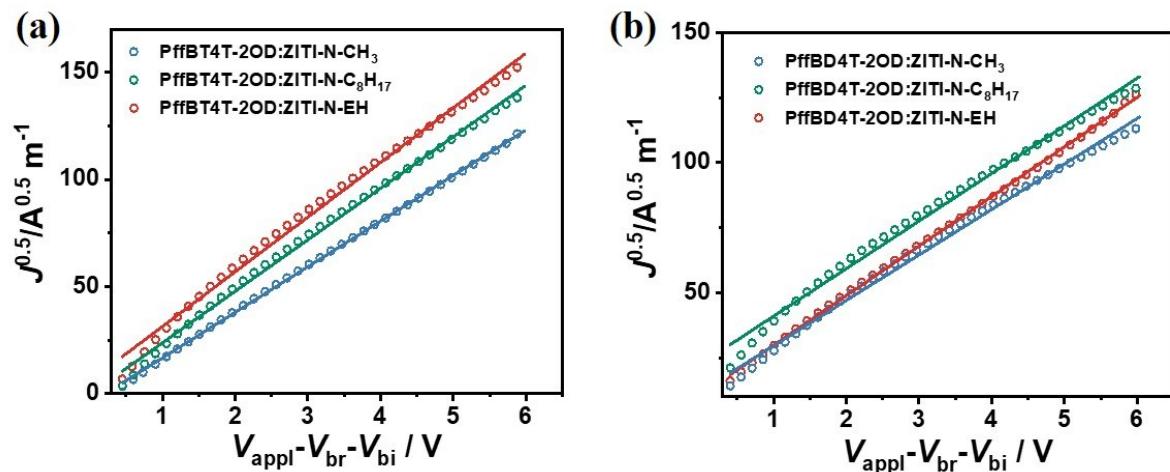
**The measurement of film thickness.** The step profiler was used to measure the film thickness by scanning profilometry. A thin probe was used to scan the surface of the sample. When a height difference was detected, the changes were converted into voltage signal in the internal circuit and then the film thickness was calculated.



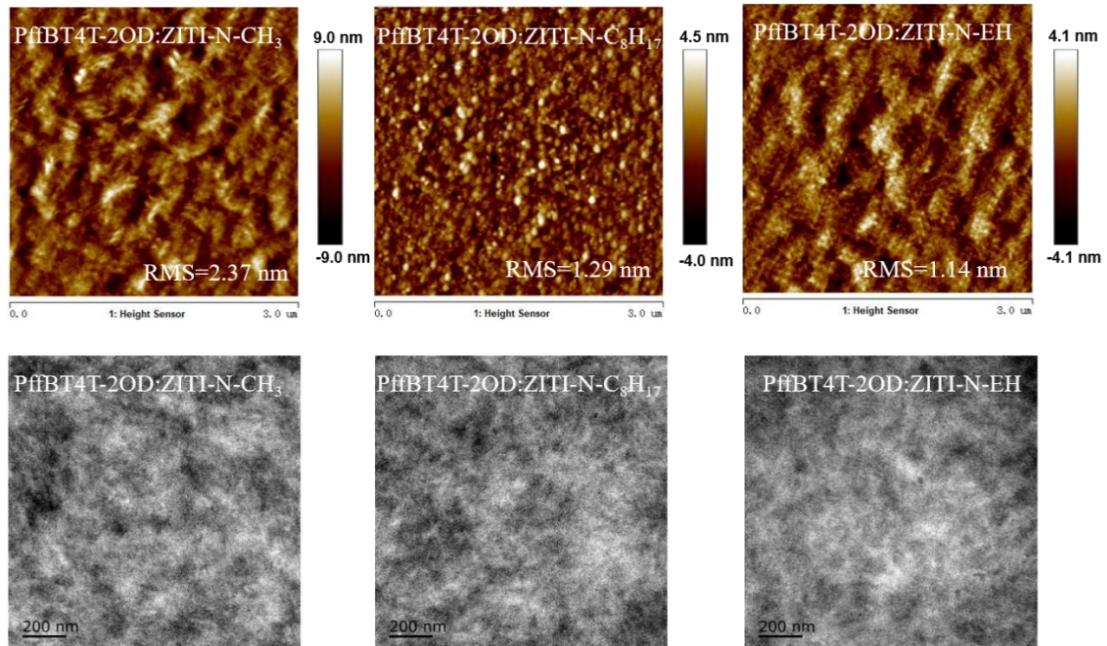
**Fig. S1** (a) Thermal gravimetric analysis (TGA) curve of ZITI-N-CH<sub>3</sub>, ZITI-N-C<sub>8</sub>H<sub>17</sub> and ZITI-N-EH; (b) UV-vis-NIR absorption spectra of ZITI-N-CH<sub>3</sub>, ZITI-N-C<sub>8</sub>H<sub>17</sub> and ZITI-N-EH in chloroform; (c) Cyclic voltammogram of PffBT4T-2OD, ZITI-N-CH<sub>3</sub>, ZITI-N-C<sub>8</sub>H<sub>17</sub> and ZITI-N-EH films in 0.1 mol/L CH<sub>3</sub>CN solution of tetrabutylammonium perchlorate (TBAP) as the supporting electrolyte with a scan rate of 100 mV s<sup>-1</sup>.



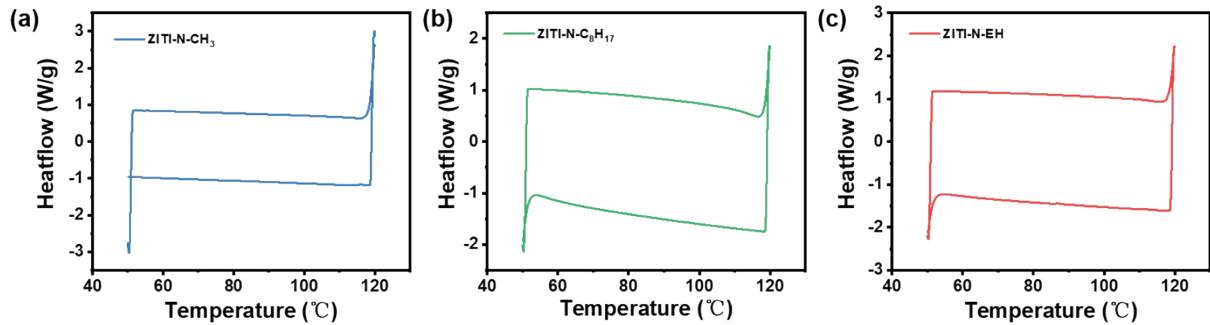
**Fig. S2** Contact angles of formamide (FM) and water droplets on PffBT4T-2OD, PC<sub>71</sub>BM, ZITI-N-CH<sub>3</sub>, ZITI-N-C<sub>8</sub>H<sub>17</sub>, and ZITI-N-EH neat films.



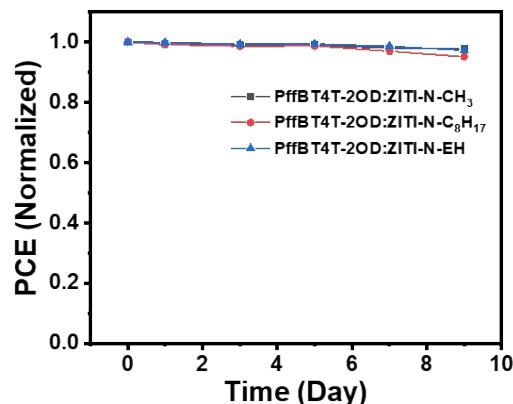
**Fig. S3**  $J^{0.5}$  vs  $V$  characteristics for PffBT4T-2OD:ZITI-N-CH<sub>3</sub>- , PffBT4T-2OD:ZITI-N-C<sub>8</sub>H<sub>17</sub>- and PffBT4T-2OD:ZITI-N-EH-based PSCs; hole-only diode (a) and electron-only diode (b).



**Fig. S4** AFM height images (up) and TEM (down) images of the PffBT4T-2OD:ZITI-N-CH<sub>3</sub>, PffBT4T-2OD:ZITI-N-C<sub>8</sub>H<sub>17</sub> and PffBT4T-2OD:ZITI-N-EH blend films.



**Fig. S5.** Differential scanning calorimetry (DSC) curves of ZITI-N-CH<sub>3</sub>, ZITI-N-C<sub>8</sub>H<sub>17</sub>, and ZITI-N-EH with a heating rate of 10 °C min<sup>-1</sup> under inert atmosphere.



**Fig. S6.** The evolution of the photovoltaic performance over storage time of the optimized device based on the PffBT4T-2OD:ZITI-N-R (R=CH<sub>3</sub>, C<sub>8</sub>H<sub>17</sub>, EH) with encapsulation in glove box.

**Table S1.** The contact angles and surface energy parameters of the materials.

Organic layer	Contact angle water [deg]	Contact angle FM <sup>(a)</sup> [deg]	$\gamma_d^{(b)}$ [mN m <sup>-1</sup> ]	$\gamma_p^{(b)}$ [mN m <sup>-1</sup> ]	$\gamma$ [mN m <sup>-1</sup> ]	$(\sqrt{\gamma_{donor}} - \sqrt{\gamma_{acceptor}})^{(c)}$
PffBT4T-2OD	112.1	94.5	16.19	2.21	18.40	--
PC <sub>71</sub> BM	81.1	56.5	25.77	10.64	36.41	3.04
ZITI-N-CH <sub>3</sub>	104.3	79.3	25.13	2.12	27.25	0.87
ZITI-N-C <sub>8</sub> H <sub>17</sub>	102.1	78.8	23.27	3.34	26.61	0.76
ZITI-N-EH	100.6	77.5	22.21	4.17	26.38	0.72

(a) FM is formamide; (b)  $\gamma_d$  and  $\gamma_p$  represent the surface free energies generated from the dispersion forces and the polar forces, respectively; (c) Estimates for all Flory-Huggins interaction parameter ( $\chi_{donor,acceptor}$ ) can in principle be derived using the relation of  $\chi_{donor,acceptor} = K(\sqrt{\gamma_{donor}} - \sqrt{\gamma_{acceptor}})^2$  (K is a constant)<sup>[51]</sup>

**Table S2.** Photovoltaic performance of PffBT4T-2OD:ZITI-N-R-based solar cells with different D/A ratio. Average values with standard deviation were obtained from 6 devices.

D:A	$V_{oc}$ (V)	$J_{sc}$ (mA cm <sup>-2</sup> )	FF (%)	PCE (%)
PffBT4T-2OD:ZITI-N-CH <sub>3</sub> 1:0.8	0.827	17.51	59.48	8.61 (8.39±0.24)
PffBT4T-2OD:ZITI-N-CH <sub>3</sub> 1:1	0.824	18.97	56.02	8.78 (8.52±0.22)

<b>PffBT4T-2OD:ZITI-N-C<sub>8</sub>H<sub>17</sub></b>	1:1.2	0.825	19.12	52.34	8.26 (8.10±0.20)
	1:0.8	0.801	20.76	71.19	11.83 (11.66±0.19)
	1:1	0.802	21.04	71.85	12.13 (11.92±0.14)
	1:1.2	0.790	20.32	68.55	11.01 (10.78±0.14)
	1:0.8	0.813	20.83	73.22	12.42 (12.18±0.18)
<b>PffBT4T-2OD:ZITI-N-EH</b>	1:1	0.805	22.13	73.35	13.07 (12.80±0.15)
	1:1.2	0.801	21.67	67.63	11.70 (11.44±0.21)

**Table S3.** Photovoltaic performance of PffBT4T-2OD:ZITI-N-R-based solar cells different thermal annealing temperature. Average values with standard deviation were obtained from 6 devices.

	<b>Treatment</b>	<i>V<sub>oc</sub></i> (V)	<i>J<sub>sc</sub></i> (mA cm <sup>-2</sup> )	<b>FF</b> (%)	<b>PCE</b> (%)
<b>PffBT4T-2OD:ZITI-N-CH<sub>3</sub></b>	as-cast	0.837	17.60	50.93	7.51 (7.36±0.16)
	80°C/10 min	0.826	18.74	52.87	8.18 (7.94±0.28)
	100°C/10 min	0.824	18.97	56.02	8.78 (8.52±0.22)
	120°C/10 min	0.818	19.29	52.03	8.22 (8.01±0.27)
<b>PffBT4T-2OD:ZITI-N-C<sub>8</sub>H<sub>17</sub></b>	as-cast	0.813	20.38	66.78	11.05 (10.79±0.15)
	80°C/10 min	0.812	20.76	71.19	11.98 (11.80±0.12)
	100°C/10 min	0.802	21.04	71.85	12.13 (11.92±0.14)
	120°C/10 min	0.801	20.39	72.81	11.89 (11.73±0.19)
<b>PffBT4T-2OD:ZITI-N-EH</b>	as-cast	0.817	20.77	70.32	11.94 (11.76±0.15)
	60°C/10 min	0.812	21.28	69.80	12.56 (12.48±0.19)
	80°C/10 min	0.805	22.13	73.35	13.07 (12.80±0.15)
	100°C/10 min	0.795	21.69	69.50	12.01 (11.77±0.26)

**Table S4.** Photovoltaic performance of PffBT4T-2OD:ZITI-N-R-based solar cells with different thicknesses. Average values with standard deviation were obtained from 6 devices.

	<b>rpm</b>	<b>Thickness</b> (nm)	<i>V<sub>oc</sub></i> (V)	<i>J<sub>sc</sub></i> (mA cm <sup>-2</sup> )	<b>FF</b> (%)	<b>PCE</b> (%)
<b>PffBT4T-2OD:ZITI-N-CH<sub>3</sub></b>	3500r	110 nm	0.824	18.78	55.04	8.52 (8.27±0.19)
	3000r	130 nm	0.824	18.97	56.02	8.78 (8.52±0.22)
	2500r	170 nm	0.820	19.53	47.71	7.64 (7.41±0.13)
	2000r	200 nm	0.819	19.35	45.21	7.16 (7.05±0.18)
	3500r	110 nm	0.801	20.39	72.81	11.89 (11.76±0.16)
<b>PffBT4T-2OD:ZITI-N-C<sub>8</sub>H<sub>17</sub></b>	3000r	130 nm	0.802	21.04	71.85	12.13 (11.92±0.14)
	2500r	170 nm	0.798	21.01	68.82	11.51 (11.34±0.14)
	2000r	200 nm	0.797	20.98	66.12	11.04 (10.74±0.24)
	3500r	110 nm	0.806	21.74	71.93	12.62 (12.47±0.24)
<b>PffBT4T-2OD:ZITI-N-EH</b>	3000r	130 nm	0.805	22.13	73.35	13.07 (12.80±0.15)
	2500r	170 nm	0.804	22.12	70.30	12.57 (12.43±0.10)
	2000r	200 nm	0.804	22.45	67.79	12.35 (12.14±0.13)

**Table S5.** The photovoltaic parameters of TDA polymer-based PSCs.

Active layer	Processing temperature (°C)	Thickness (nm)	V <sub>oc</sub> (V)	J <sub>sc</sub> (mA/cm <sup>2</sup> )	FF (%)	PCE (%)	Ref.
PNTDT-2F2T:PC <sub>71</sub> BM	40	210	0.73	18.80	70.0	9.63	1
NT812:PC <sub>71</sub> BM	70	300	0.72	20.61	66.99	10.2	2
PffBTT <sub>2</sub> -DPPT <sub>2</sub> PC <sub>71</sub> BM	100	100	0.81	17.26	60	8.44	3
PTBTz-2:PC <sub>71</sub> BM	100	100	0.83	16.84	69.5	9.72	4
PffBT4T-2OD:PC <sub>71</sub> BM	110	240	0.76	17.8	61	8.3	5
PffBT4T-2OD:PC <sub>71</sub> BM	100	300	0.79	18.5	71	10.3	5
PffBT4T-2OD:PC <sub>71</sub> BM	80	350	0.76	17.3	60	7.9	5
PffBX4T-2DT:PC <sub>71</sub> BM	110	250	0.875	15.8	66	9.4	6
PffBX4T-2DT:PC <sub>71</sub> BM	110	110	0.878	13.6	72	8.9	6
PffBX4T-2DT:PC <sub>71</sub> BM	110	300	0.867	15.9	62	8.7	6
PffBT-T3(1,2)-2:PC <sub>71</sub> BM	110	250	0.82	18.7	68.3	10.5	7
P3:PC <sub>71</sub> BM	110	210	0.66	20.69	71	9.76	8
P2:PC <sub>71</sub> BM	110	136	0.69	16.3	69	7.76	9
PffBT4T-2OD:PC <sub>71</sub> BM	110	300	0.77	18.4	74	10.5	10
PBDTTT-H:PC <sub>71</sub> BM	110	95	0.8	17.37	67.5	9.38	11
PNTz4TF2:PC <sub>71</sub> BM	160	230	0.82	19.3	0.67	10.5	11
PfftT2-FTAZ:PC <sub>71</sub> BM	115	250	0.8	13.3	69	7.5	12
FBT-Th4(1,4):PC <sub>71</sub> BM	60	230	0.76	16.2	62.1	7.64	13
PffBT-2TPF4-19/1:PC <sub>61</sub> BM	30	169	0.754	17.05	69.3	8.9	14
PffBT-2TPF4-9/1:PC <sub>61</sub> BM	30	168	0.769	17.18	70.8	9.4	14
PffBT-2TPF4-4/1:PC <sub>61</sub> BM	30	148	0.772	16.55	72.7	9.3	14
PffBT4T90-co-3T10:PC <sub>71</sub> BM	25	400	0.73	19.9	65.0	9.6	15
PffBT4T-2OD:BTR:PC <sub>71</sub> BM	25	300	0.77	18.28	74.02	10.59	16
PNTT:BTR:PC <sub>71</sub> BM	25	300	0.77	20.83	70.43	11.44	16
PffBX-TT:PC <sub>71</sub> BM	130	250	0.85	15.3	66.2	9.10	17
PffBX-DTT:PC <sub>71</sub> BM	25	260	0.82	12.8	62.2	6.66	17
PFBT4T-C5Si-25%:PC <sub>71</sub> BM	90	420	0.76	19.08	74.12	11.09	18
PTFB-O:ITIC-Th	110	96	0.92	16.70	67.6	10.9	19
PffBT4T-2DT:EH-IDTBR	60	80	1.02	17.2	0.63	11.1	20
PffBT4T-2OD:BAF-4CN	70	290	0.769	15.52	70.7	8.4	21
PfftT2-FTAZ-2DT:IEIC	80	80	0.998	12.2	59	7.2	22
P3TEA:SF-PDI <sub>2</sub>	90	120	1.11	13.27	64.3	9.5	23
PTP8:P(NDI2HD-Se)	135	133	0.99	9.7	62.6	6.01	24
PffBT4T-2OD:EH-IDTBR	110	300	1.03	16.1	54.5	9.1	25
PffBT4T-2OD:ZITI-N-EH	25	130	0.805	22.13	73.35	13.07	This work

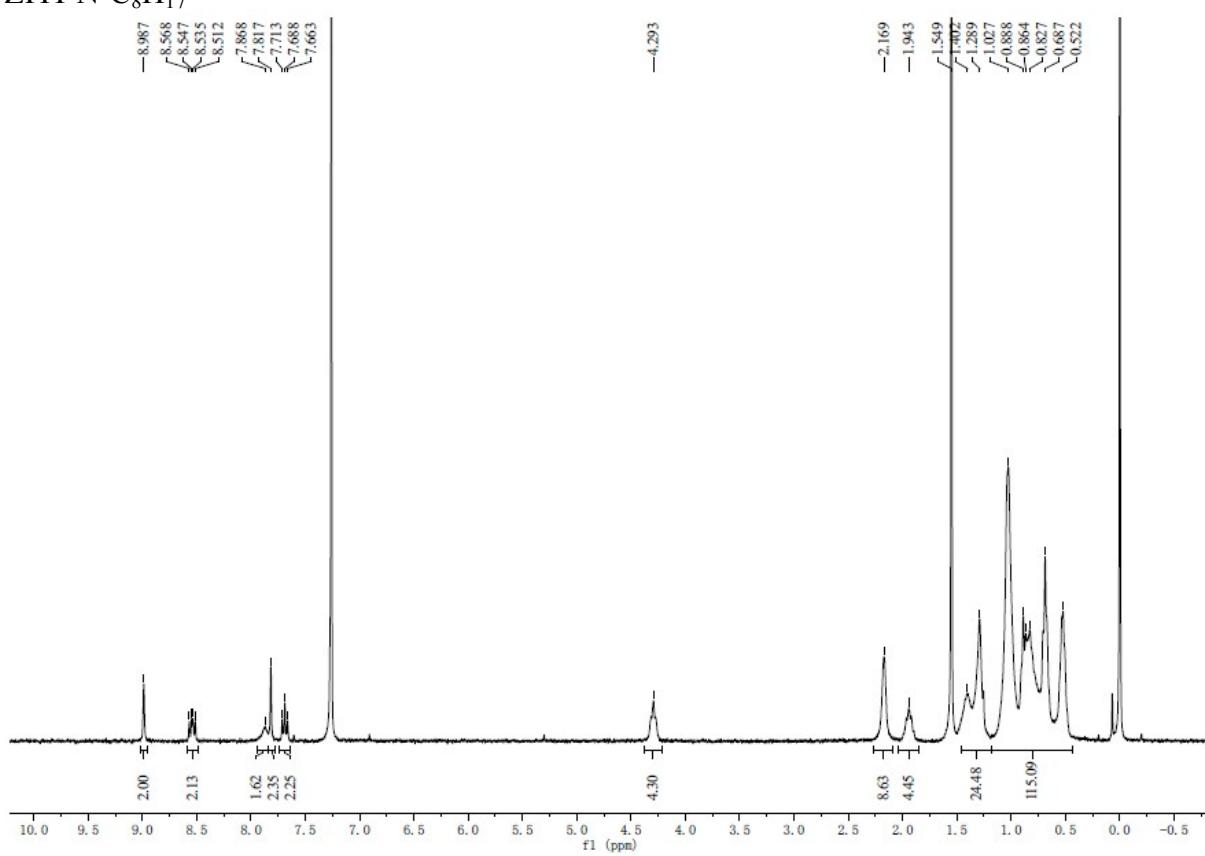
## References

1. W. S. Yoon, D. W. Kim, M.-W. Choi, J.-M. Park, S. Y. Park, *Adv. Energy Mater.*, 2018, **8**, 1701467.
2. Y. Jin, Z. Chen, S. Dong, N. Zheng, L. Ying, X. F. Jiang, F. Liu, F. Huang, Y. Cao, *Adv. Mater.*, 2016, **28**, 9811.
3. T. Ma, K. Jiang, S. Chen, H. Hu, H. Lin, Z. Li, J. Zhao, Y. Liu, Y.-M. Chang, C.-C. Hsiao, H. Yan, *Adv. Energy Mater.*, 2015, **5**, 1501282.
4. D. Zhu, X. Bao, Q. Zhu, C. Gu, M. Qiu, S. Wen, J. Wang, B. Shahid, R. Yang, *Energy Environ. Sci.*, 2017, **10**, 614.
5. W. Ma, G. Yang, K. Jiang, J. H. Carpenter, Y. Wu, X. Meng, T. McAfee, J. Zhao, C. Zhu, C. Wang, H. Ade, H. Yan, *Adv. Energy Mater.*, 2015, **5**, 1501400.
6. J. Zhao, Y. Li, A. Hunt, J. Zhang, H. Yao, Z. Li, J. Zhang, F. Huang, H. Ade, H. Yan, *Adv. Mater.*, 2016, **28**, 1868.
7. H. Hu, K. Jiang, G. Yang, J. Liu, Z. Li, H. Lin, Y. Liu, J. Zhao, J. Zhang, F. Huang, Y. Qu, W. Ma, H. Yan, *J. Am. Chem. Soc.*, 2015, **137**, 14149.
8. S. Shi, Q. Liao, Y. Tang, H. Guo, X. Zhou, Y. Wang, T. Yang, Y. Liang, X. Cheng, F. Liu, X. Guo, *Adv. Mater.*, 2016, **28**, 9969.
9. Z. Zhang, Z. Lu, J. Zhang, Y. Liu, S. Feng, L. Wu, R. Hou, X. Xu, Z. Bo, *Org. Electronics.*, 2017, **40**, 36.
10. Y. Liu, J. Zhao, Z. Li, C. Mu, W. Ma, H. Hu, K. Jiang, H. Lin, H. Ade, H. Yan, *Nat. Commun.*, 2014, **5**, 5293.
11. K. Kawashima, T. Fukuhara, Y. Suda, Y. Suzuki, T. Koganezawa, H. Yoshida, H. Ohkita, I. Osaka, K. Takimiya, *J. Am. Chem. Soc.*, 2016, **138**, 10265.
12. Z. Li, H. Lin, K. Jiang, J. Carpenter, Y. Li, Y. Liu, H. Hu, J. Zhao, W. Ma, H. Ade, H. Yan, *Nano Energy*, 2015, **15**, 607.
13. Z. Chen, P. Cai, J. Chen, X. Liu, L. Zhang, L. Lan, J. Peng, Y. Ma, Y. Cao, *Adv. Mater.*, 2014, **26**, 2586.
14. X. Liao, L. Zhang, L. Chen, X. Hu, Q. Ai, W. Ma, Y. Chen, *Nano Energy*, 2017, **37**, 32.
15. B. Xu, I. Pelse, S. Agarkar, S. Ito, J. Zhang, X. Yi, Y. Chujo, S. Marder, F. So, J. R. Reynolds, *ACS Appl. Mater. Interfaces*, 2018, **10**, 44583.
16. M. Xiao, K. Zhang, Y. Jin, Q. Yin, W. Zhong, F. Huang, Y. Cao, *Nano Energy*, 2018, **48**, 53.
17. P. Chen, S. Shi, H. Wang, F. Qiu, Y. Wang, Y. Tang, J. R. Feng, H. Guo, X. Cheng, X. Guo, *ACS Appl. Mater. Interfaces*, 2018, **10**, 21481.
18. X. Liu, L. Nian, K. Gao, L. Zhang, L. Qing, Z. Wang, L. Ying, Z. Xie, Y. Ma, Y. Cao, F. Liu, J. Chen, *J. Mater. Chem. A.*, 2017, **5**, 17619.
19. H. Hu, K. Jiang, P. C. Y. Chow, L. Ye, G. Zhang, Z. Li, J. H. Carpenter, H. Ade, H. Yan, *Adv. Energy Mater.*, 2018, **8**, 1701674.

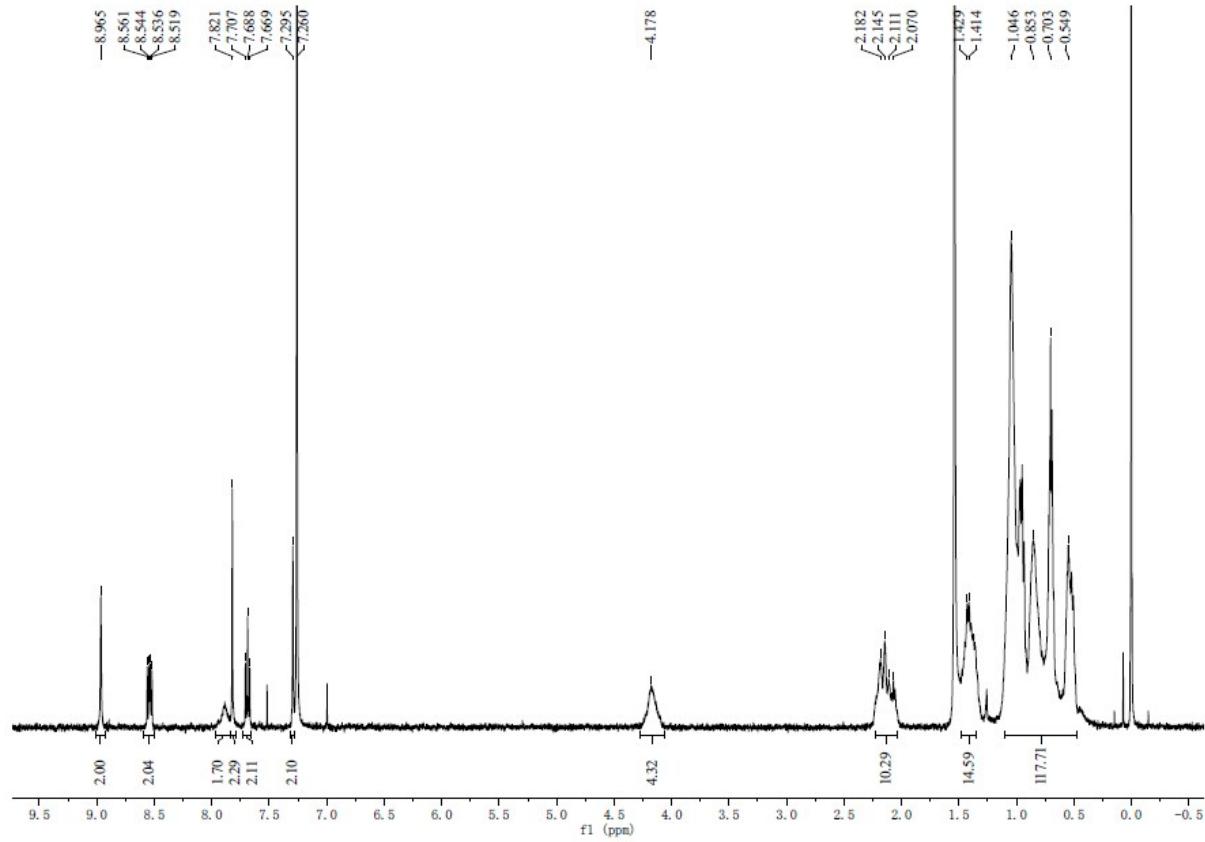
20. A. Wadsworth, R. S. Ashraf, M. Abdelsamie, S. Pont, M. Little, M. Moser, Z. Hamid, M. Neophytou, W. Zhang, A. Amassian, J. R. Durrant, D. Baran, I. McCulloch, *ACS Energy Letters.*, 2017, **2**, 1494.
21. Suman, V. Gupta, A. Bagui, S. P. Singh, *Adv. Funct. Mater.*, 2017, **27**, 1603820.
22. H. Lin, S. Chen, Z. Li, J. Lai, G. Yang, T. McAfee, K. Jiang, Y. Li, Y. Liu, H. Hu, J. Zhao, W. Ma, H. Ade, H. Yan, *Adv. Mater.*, 2015, **27**, 7299.
23. J. Liu, S. Chen, D. Qian, B. Gautam, G. Yang, J. Zhao, J. Bergqvist, F. Zhang, W. Ma, H. Ade, O. Inganas, K. Gundogdu, F. Gao, H. Yan, *Nat. Energy*, 2016, **1**, 16089.
24. S. Shi, J. Yuan, G. Ding, M. Ford, K. Lu, G. Shi, J. Sun, X. Ling, Y. Li, W. Ma, *Adv. Funct. Mater.*, 2016, **26**, 5669.
25. G. Zhang, R. Xia, Z. Chen, J. Xiao, X. Zhao, S. Liu, H. Yip, Y. Cao, *Adv. Energy Mater.*, 2018, **8**, 1801609.

**<sup>1</sup>H NMR**

ZITI-N-C<sub>8</sub>H<sub>17</sub>



ZITI-N-EH



High Resolution MALDI-TOF Mass Spectrum of Compound ZITI-N-C<sub>8</sub>H<sub>17</sub>

MALDI,ZJY-2

**Analysis Info**

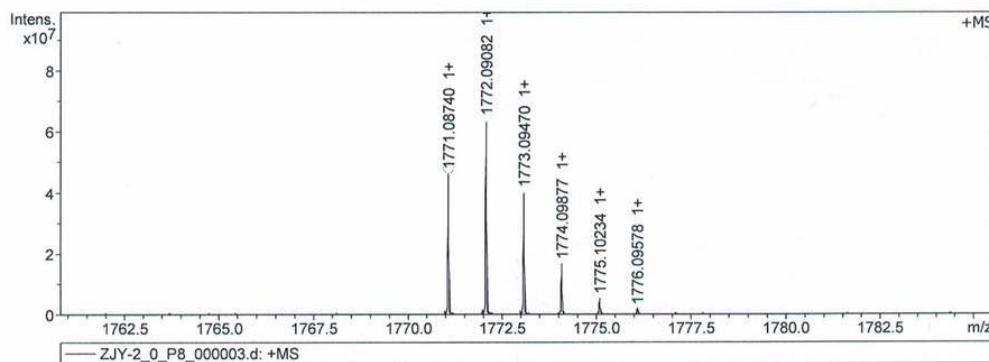
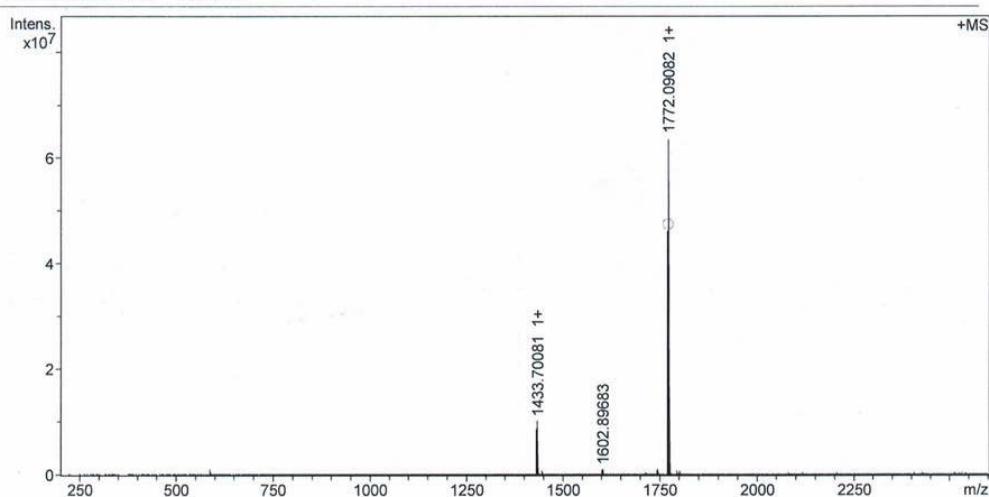
Analysis Name D:\Data\MALDI\2019\0813\ZJY-2\_0\_P8\_000003.d  
 Method MALDI\_P\_100-3000  
 Sample Name MURU-N-ESI  
 Comment

Acquisition Date 8/13/2019 2:52:18 PM

Operator  
 Instrument solariX

**Acquisition Parameter**

Acquisition Mode	Single MS	Acquired Scans	4	Calibration Date	Tue Aug 13 02:40:33
Polarity	Positive	No. of Cell Fills	1	Data Acquisition Size	2099152
Broadband Low Mass	202.1 m/z	No. of Laser Shots	10	Data Processing Size	4194304
Broadband High Mass	2600.0 m/z	Laser Power	10.2 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
1771.087400	1	C114H146F4N6O2S2	100.00	1771.087934	0.3	-0.3	57.4	43.0	odd	ok

# High Resolution MALDI-TOF Mass Spectrum of Compound ZITI-N-EH

ZITI-N(EH)-47

## MALDI,3

### Analysis Info

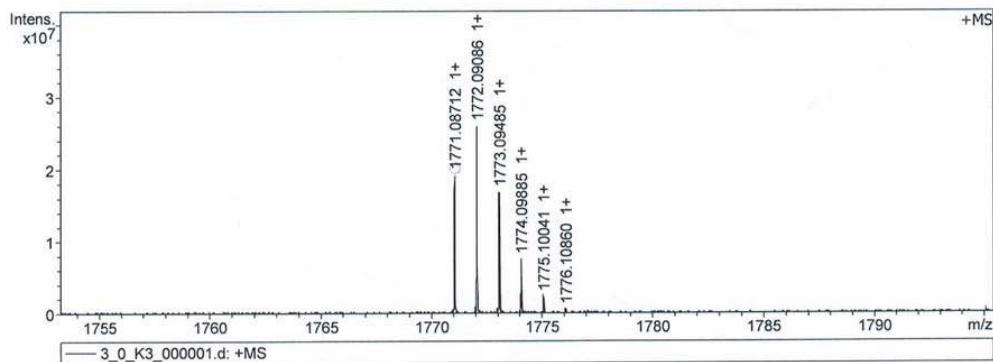
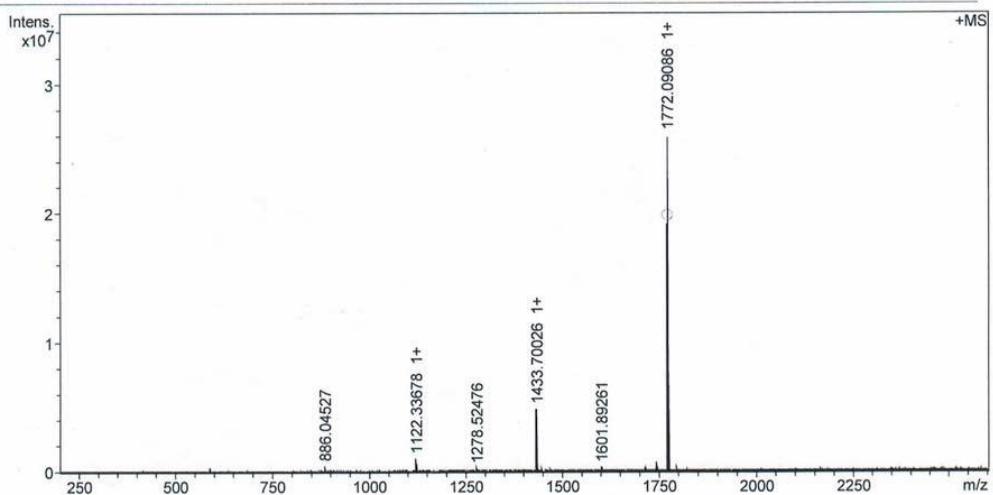
Analysis Name D:\Data\MALDI\2019\0725\3\_0\_K3\_000001.d  
 Method MALDI\_P\_100-3000  
 Sample Name MURU-N-ESI  
 Comment

Acquisition Date 7/25/2019 3:00:49 PM

Operator  
 Instrument solariX

### Acquisition Parameter

Acquisition Mode	Single MS	Acquired Scans	2	Calibration Date	Thu Jul 25 02:57:15 2019
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	2600.0 m/z	Laser Power	10.6 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
1771.087116	1	C114H146F4N6O2S2	100.00	1771.087934	-0.5	-0.4	42.7	43.0	odd	ok