

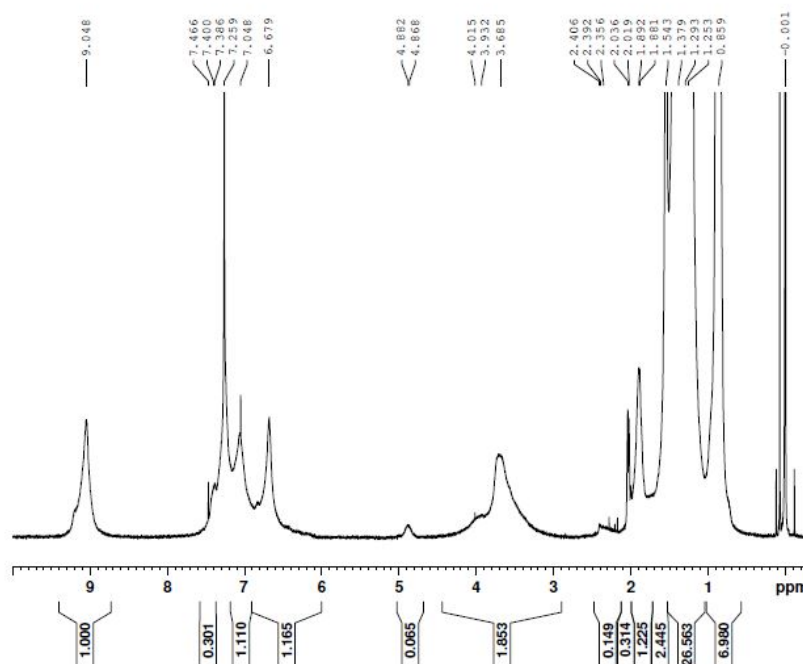
Electronic Supplementary Information

Effect of different chalcogenophenes in isoindigo-based conjugated copolymer on photovoltaic properties

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PIT / ¹H



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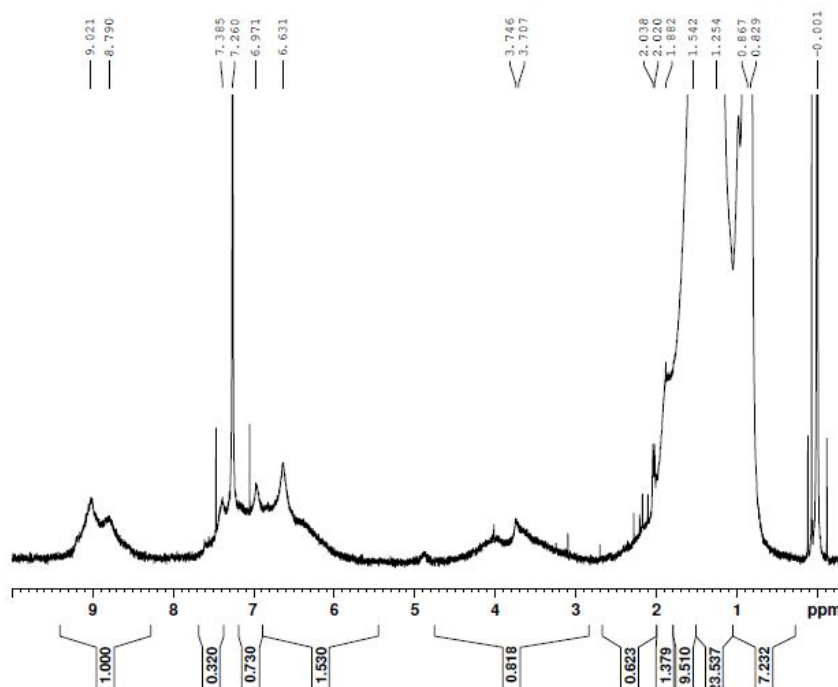
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Figure S1. ¹H-NMR spectrum of PIT

PISe / ¹H



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Figure S2. ¹H-NMR spectrum of PISe

PITe / ^1H

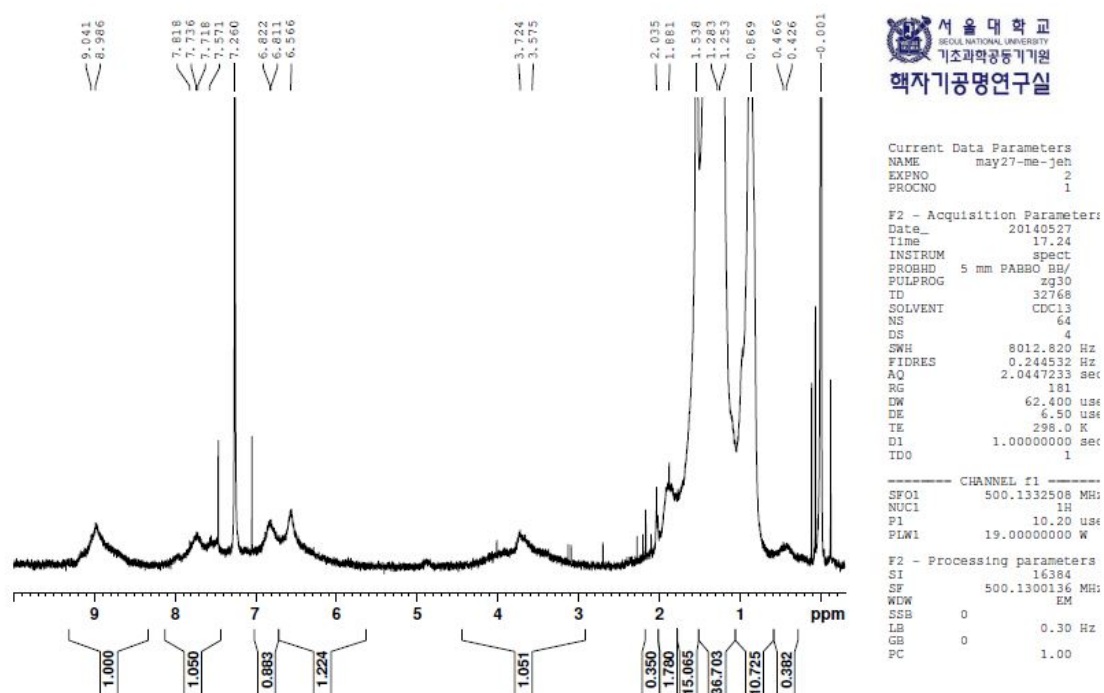


Figure S3. ^1H -NMR spectrum of PITe

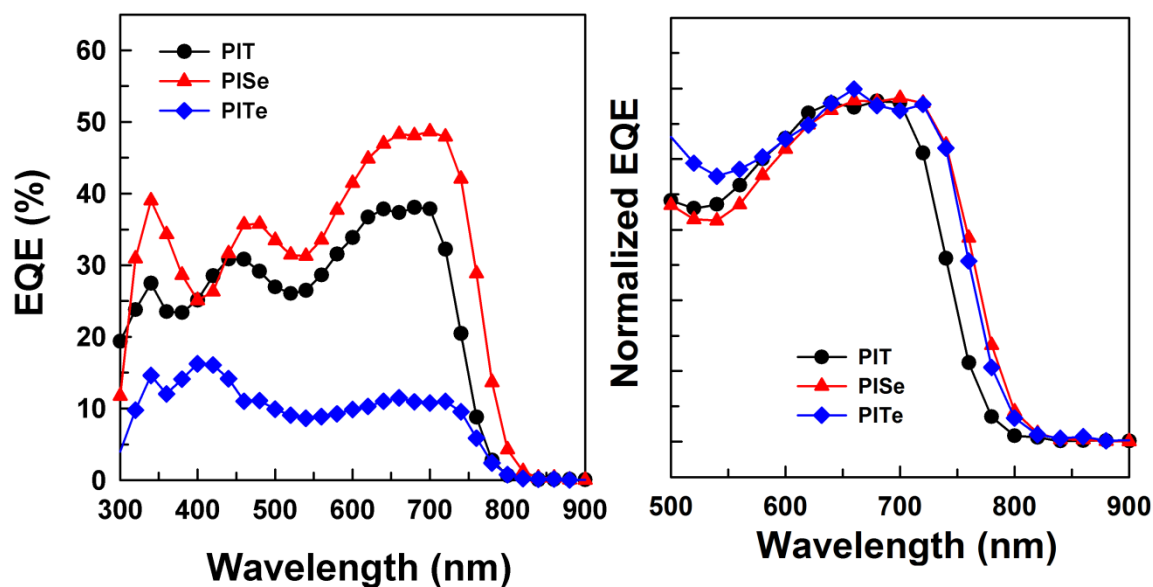


Figure S4. (a) EQE spectra and (b) normalized ones of PIT, PISe and PITe

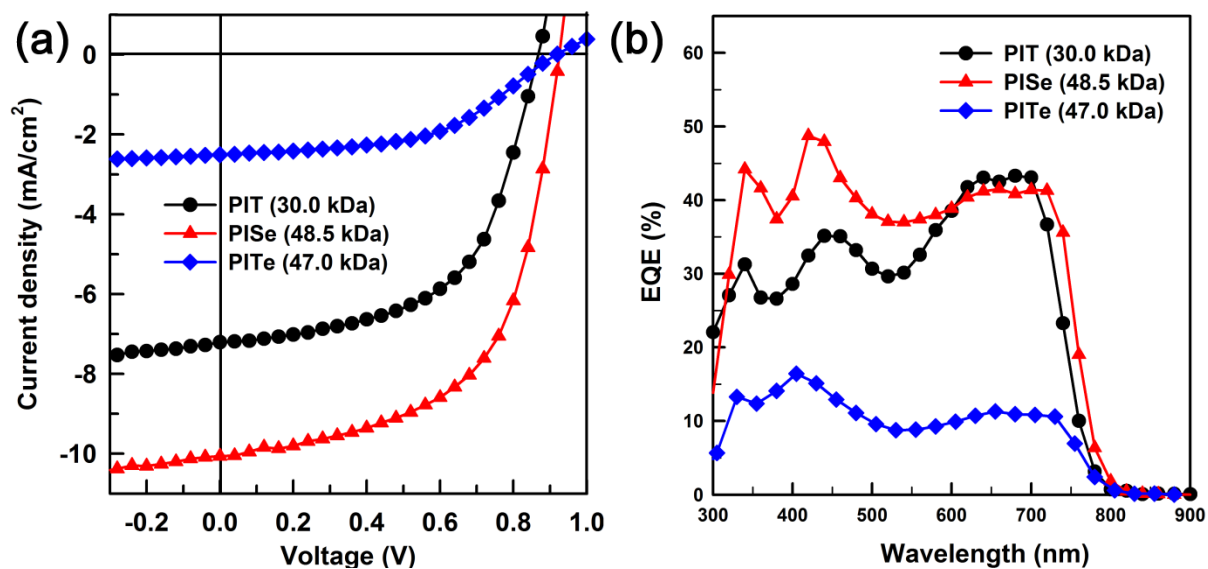


Figure S5. (a) J – V curves and (b) EQE spectra of PSCs fabricated from PIT, PISe and PITe with similar molecular weights

Table S1. Molecular weights of controlled polymers and summary of the photovoltaic properties

Polymers	M_n (kDa)	PDI	V_{oc} (V)	J_{sc} (mA cm^{-2})	FF (%)	PCE (%)
PIT	30.0	1.26	0.88	7.23	57.4	3.65
PISe	48.5	1.35	0.94	10.08	58.7	5.56
PITe	47.0	1.60	0.92	2.51	50.1	1.16