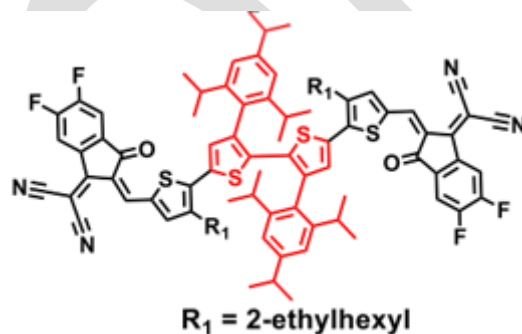


Certificate of Analysis

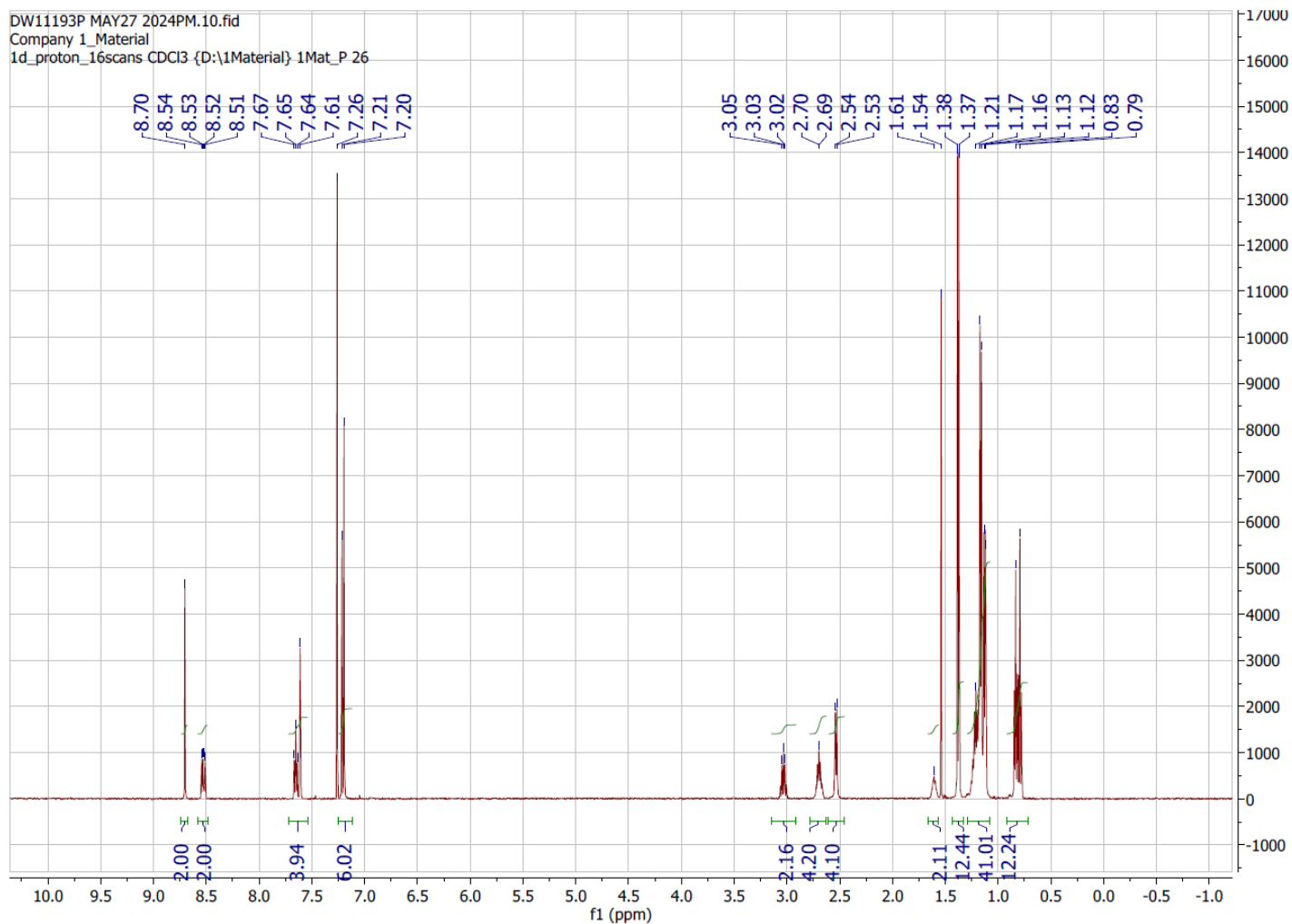
Common Name	A4T-16
Application:	Non-Fused Electron Acceptor for OPV
Chemical Name:	2,2'-((2Z,2'Z)-((3,3''-bis(2-ethylhexyl)-3'',4'-bis(2,4,6-triisopropylphenyl)-[2,2':5',2'':5'',2'''- quaterthiophene]-5,5'''-diyl)bis(methanylylidene))bis(5,6-difluoro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile
Chemical Structure:	



Lot No.	DW11193P
Appearance:	Black solid
Purity:	99+% (NMR)
Solubility:	Soluble in selected organic solvents
Reference:	https://doi.org/10.1038/s41467-021-25394-w
Remark:	15.2% = PCE from PBDB-TF:A4T-16 OPV device, and 1300 h under the simulated AM 1.5 G illumination (100 mW cm ⁻²) (~84%).

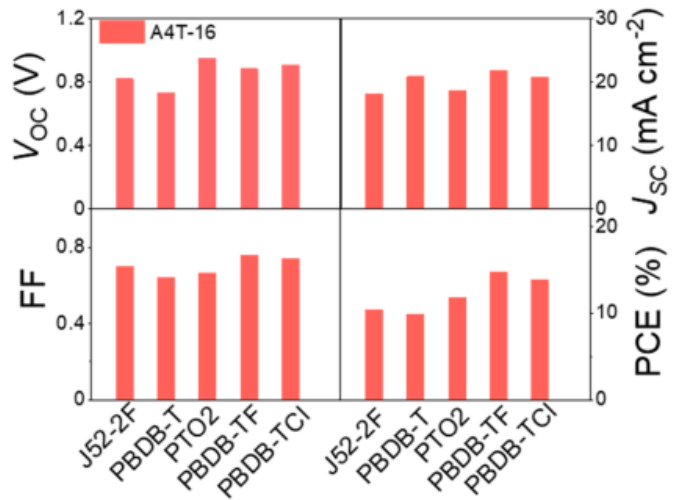
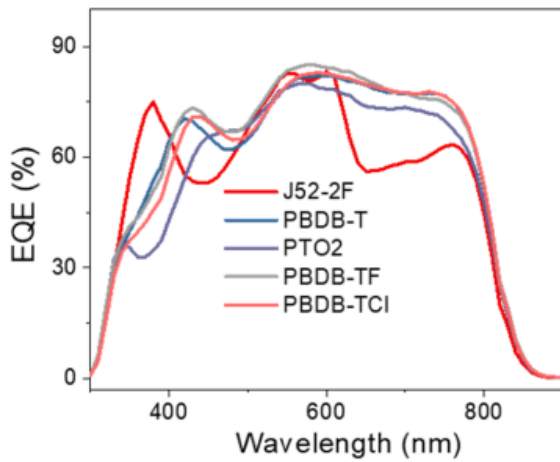
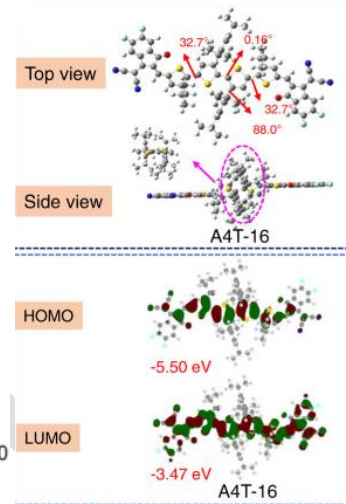
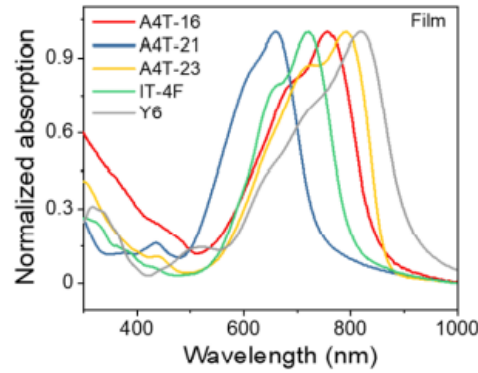
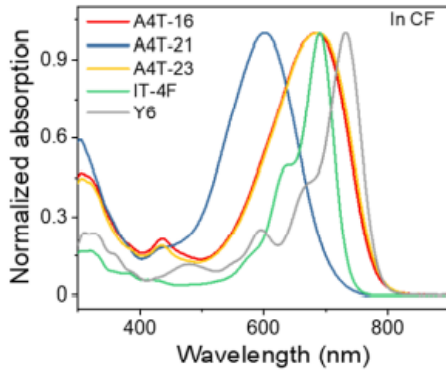
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Internal reference

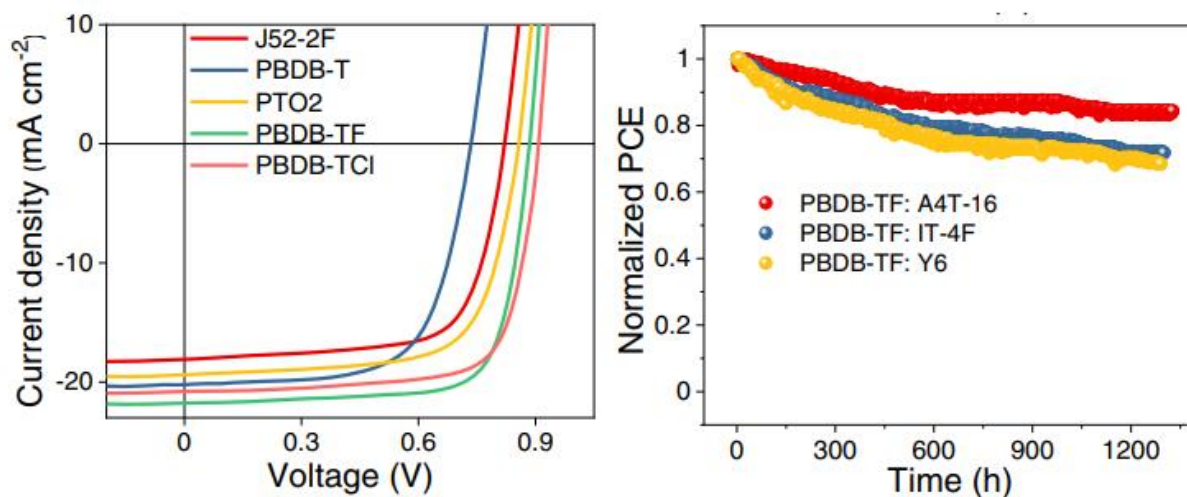


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