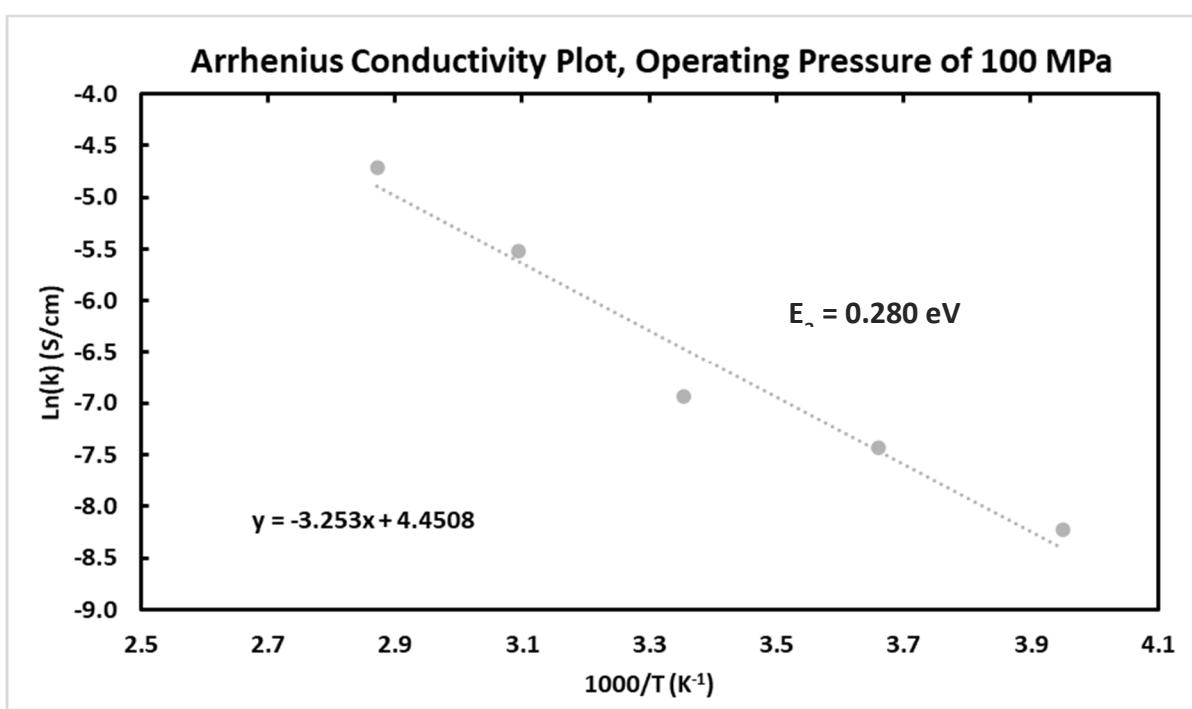
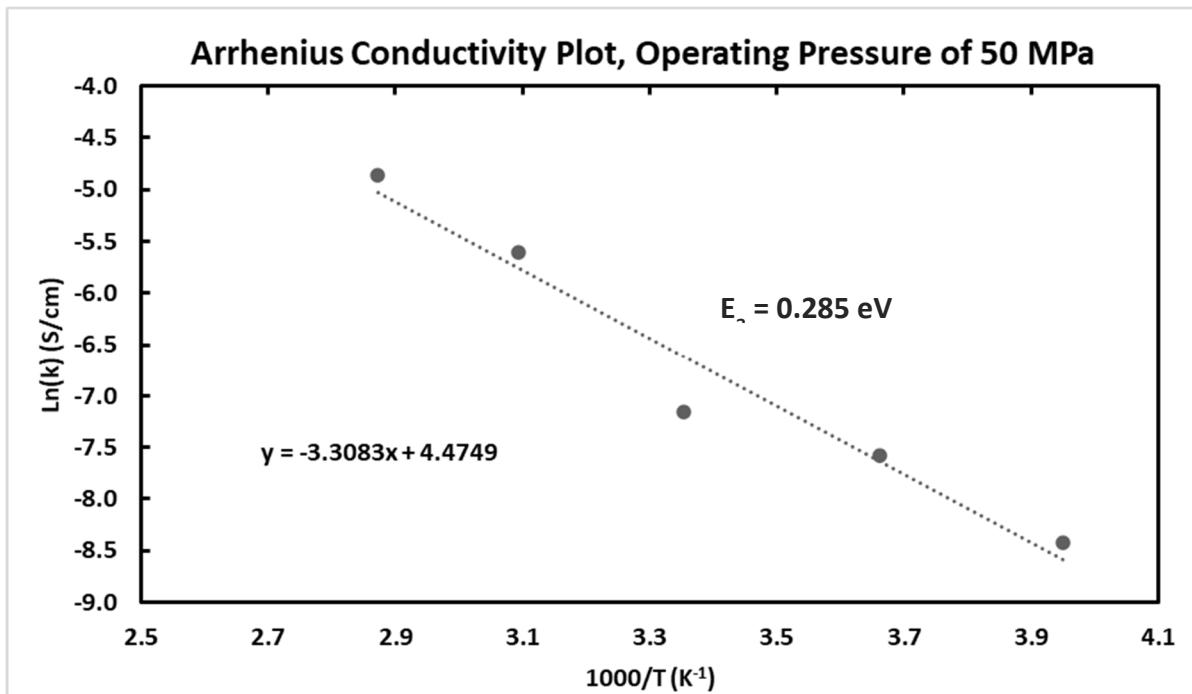


Supplemental Document



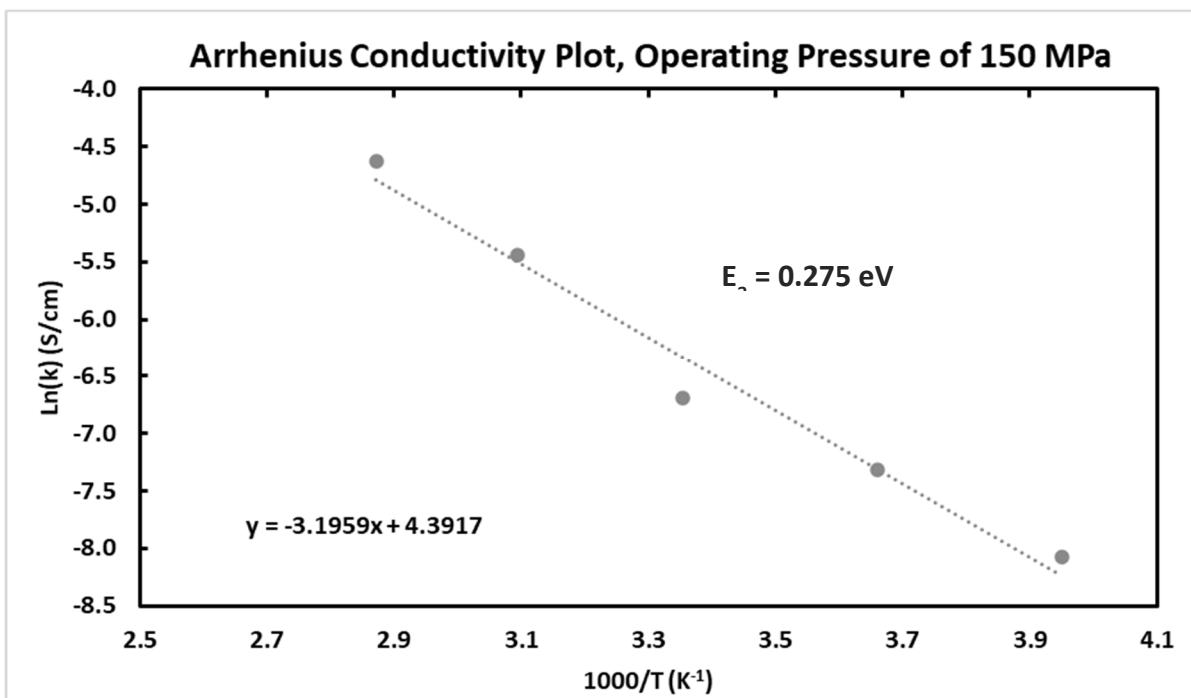


Figure S1. Arrhenius ionic conductivity plot of Ampcera™ Li₆PS₅Cl_{0.5}Br_{0.5} at 50, 100, and 150 MPa from the temperature of -20 to 75 °C.

Table S1. Arrhenius ionic conductivity values of Ampcera™ Li₆PS₅Cl_{0.5}Br_{0.5} as plotted in Figure S1.

Temp (K)	Temp (1000/T)	Operating Pressure (MPa)	Ionic Conductivity (mS/cm)	Ln(ionic conductivity)
253	3.95	50	0.22	-8.424
		100	0.27	-8.229
		150	0.31	-8.072
		250	0.36	-7.924
273	3.66	50	0.51	-7.584
		100	0.59	-7.428
		150	0.66	-7.322
		250	0.70	-7.265
298	3.35	50	0.78	-7.156
		100	0.97	-6.934
		150	1.24	-6.691
		250	1.46	-6.527
323	3.09	50	3.65	-5.612
		100	3.99	-5.523
		150	4.33	-5.443
		250	4.88	-5.323
348	2.87	50	7.71	-4.865
		100	8.98	-4.712
		150	9.78	-4.627
		250	10.88	-4.521