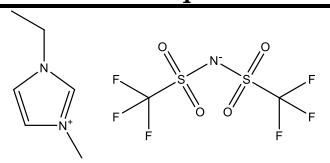
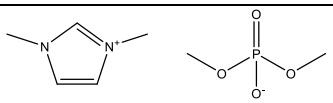
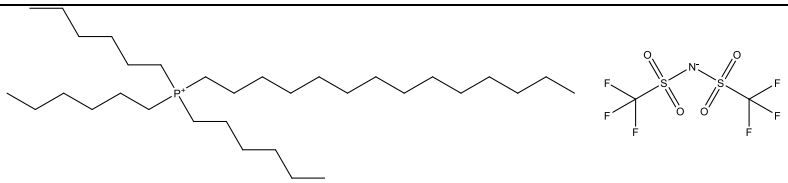
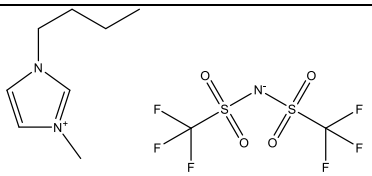
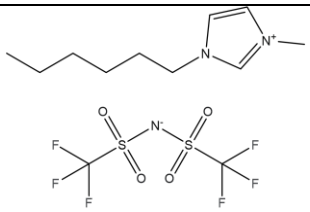
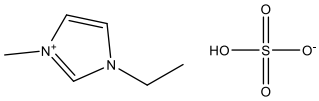
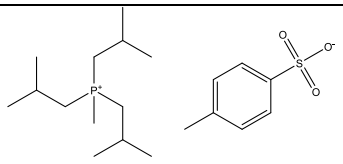
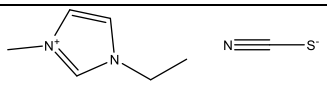
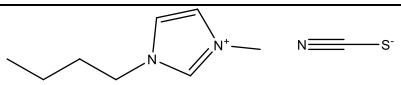
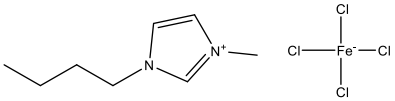
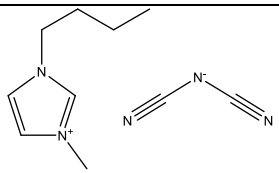
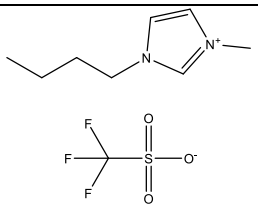
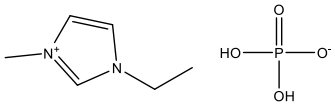
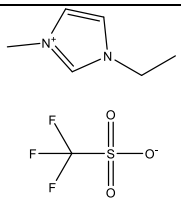
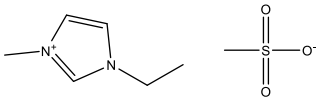
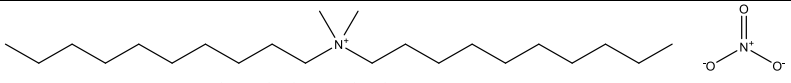
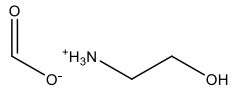
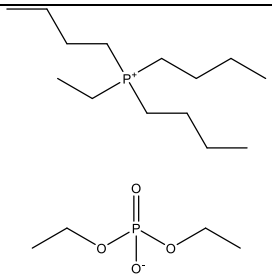
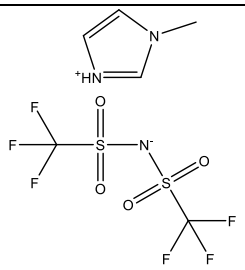
Table S1. List of the 19 ionic liquids tested with the respective chemical structures.

Nr (#)	Ionic Liquids
1	 1-Ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide
2	 1,3-Dimethylimidazolium dimethyl phosphate
3	 Trihexyl(tetradecyl)phosphonium bis(trifluoromethylsulfonyl)imide
4	 1-Butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide
5	 1-Hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide
6	 1-Ethyl-3-Methylimidazolium hydrogensulfate
7	 Triisobutyl(methyl)phosphonium tosylate

8	 1-Ethyl-3-Methylimidazolium thiocyanate
9	 1-Butyl-3-Methylimidazolium thiocyanate
10	 1-Butyl-3-Methylimidazolium tetracholoroferrate (III)
11	 1-Butyl-3-Methylimidazolium dicyanamide
12	 1-Butyl-3-Methylimidazolium trifluoromethanesulfonate
13	 1-Ethyl-3-Methylimidazolium dihydrogen phosphate
14	 1-Ethyl-3-methylimidazolium trifluoromethanesulfonate
15	 1-Ethyl-3-Methylimidazolium methanesulfonate
16	 Didecyl-dimethylammonium nitrate

17	 2-hydroxyethylammonium formate
18	 Tributyl(ethyl)phosphonium diethyl phosphate
19	 1-Methylimidazolium bis(trifluoromethylsulfonyl)imide

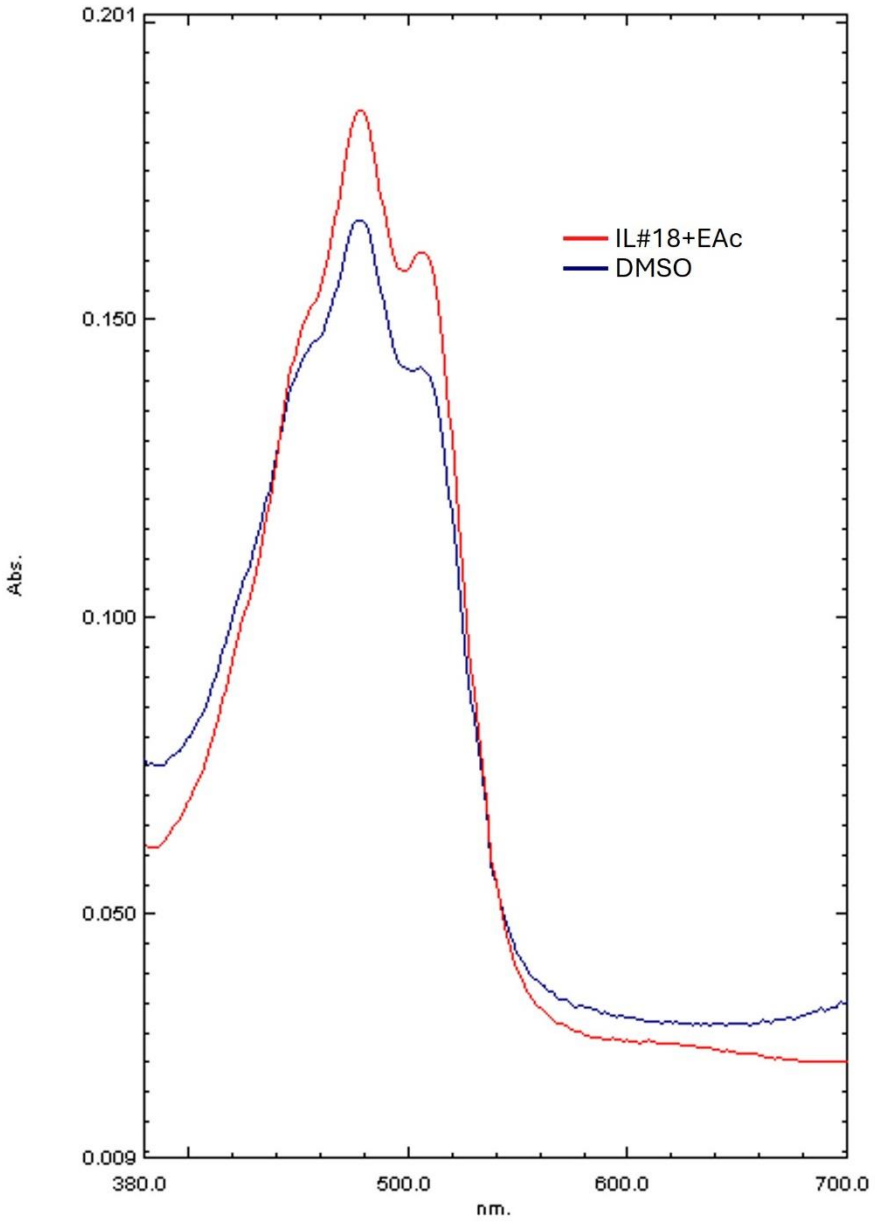


Figure S1. Absorbance spectra for the carotenoid extracts from *G. alkanivorans* strain 1 B biomass extracted using the DMSO extraction protocol *versus* the novel procedure with IL#18 and EAc.