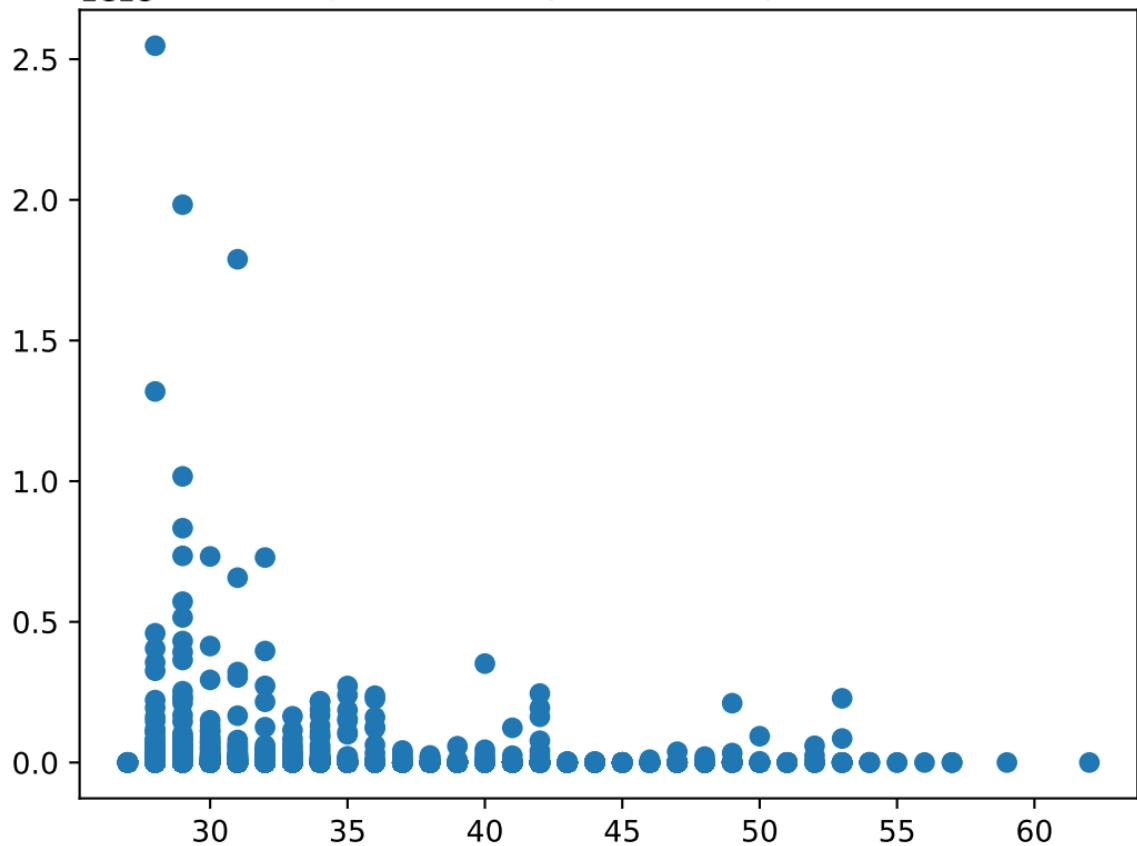
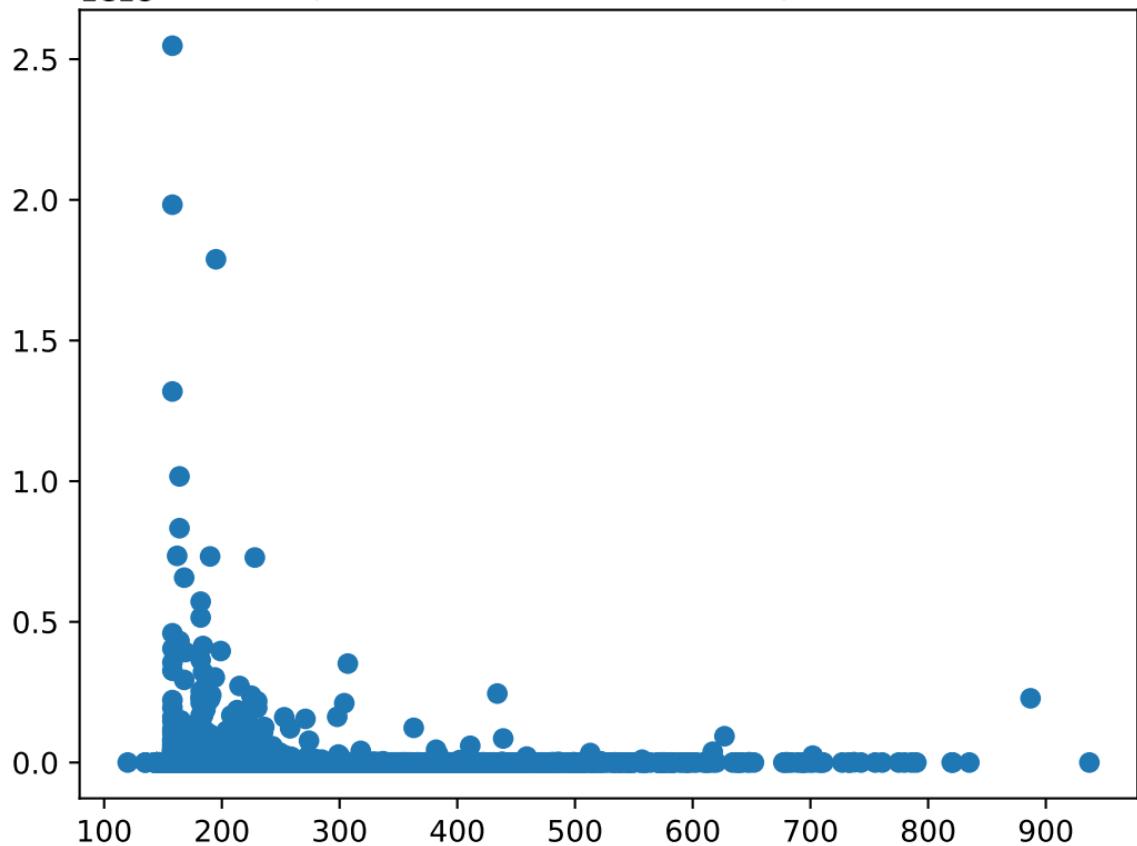


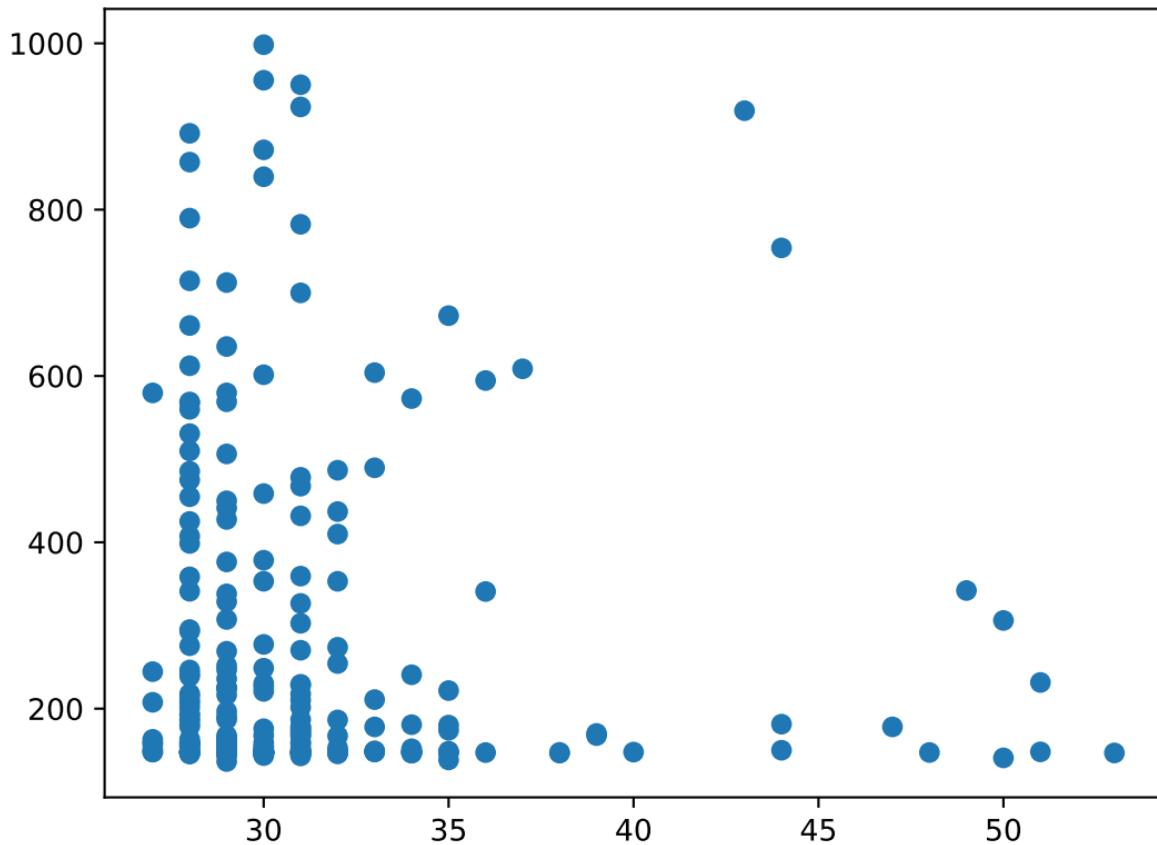
$1e18$ linear obj func # of species vs objective function



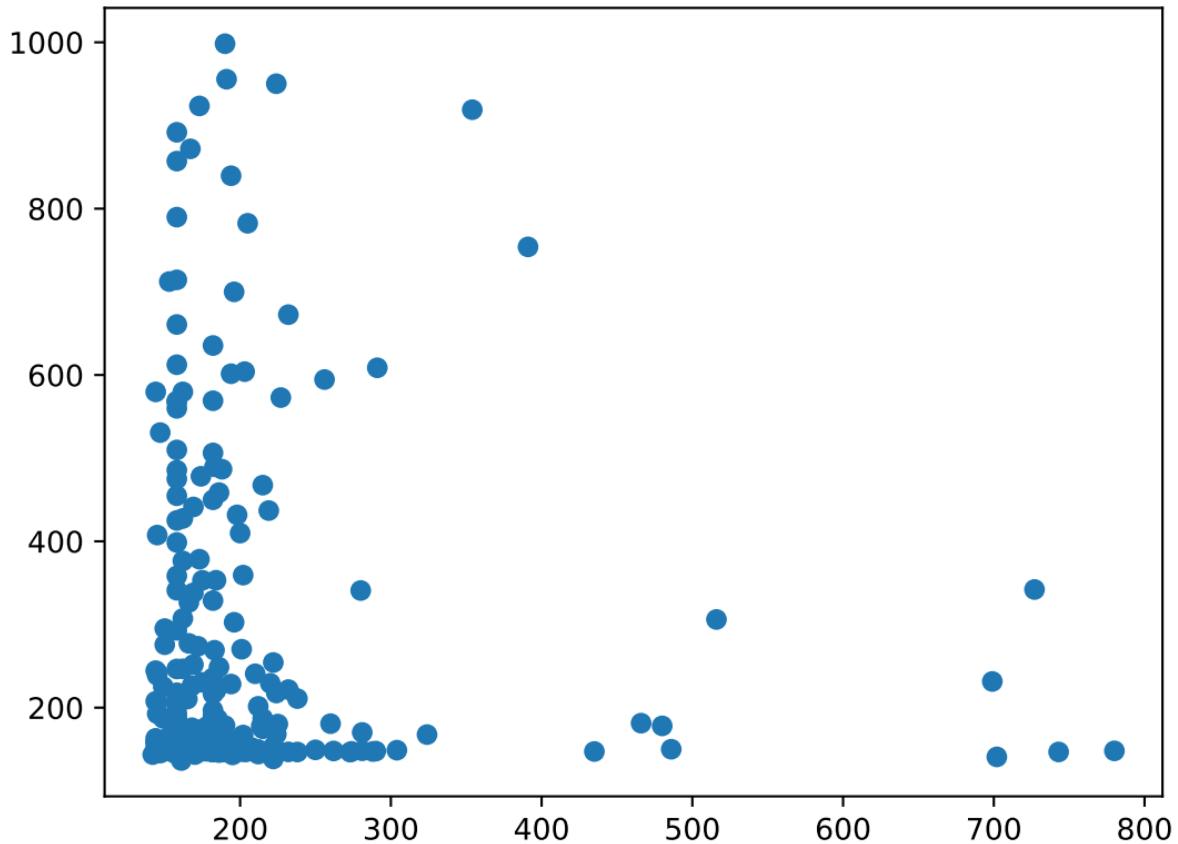
$1e18$ linear obj func # of reactions vs objective function



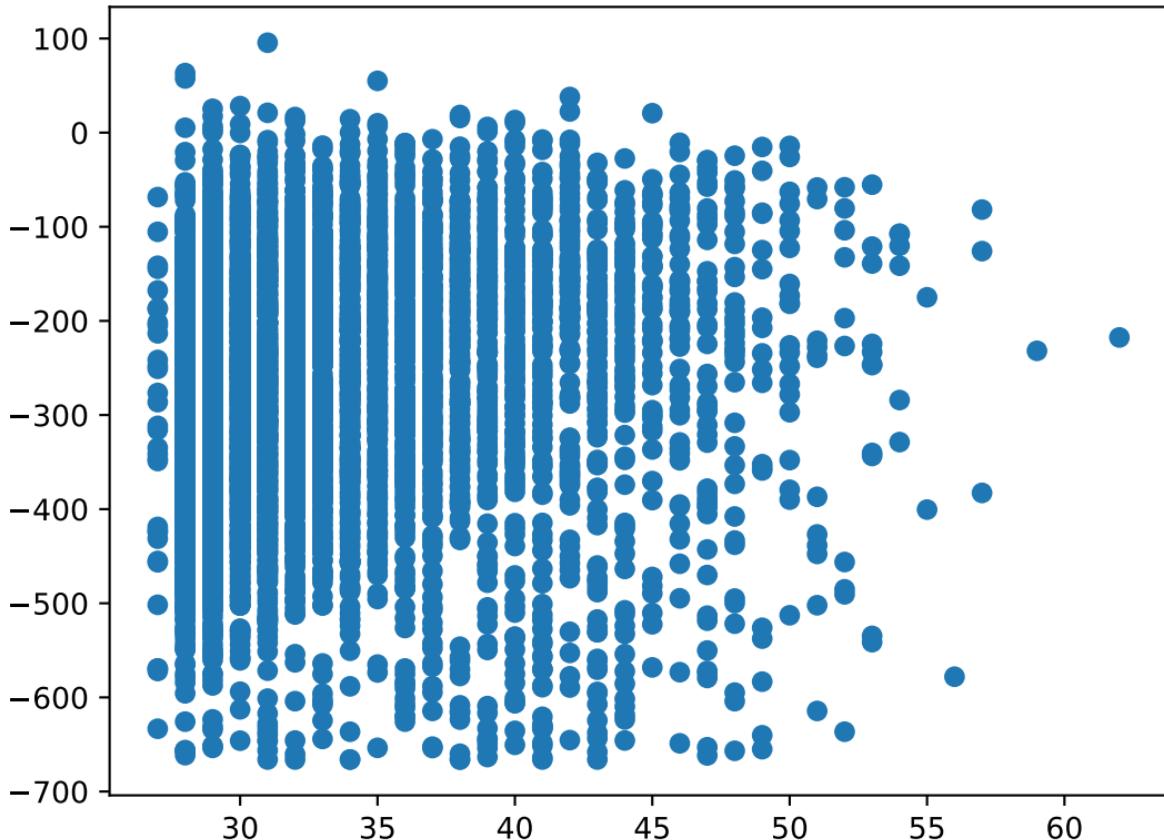
linear obj func low # of species vs objective function



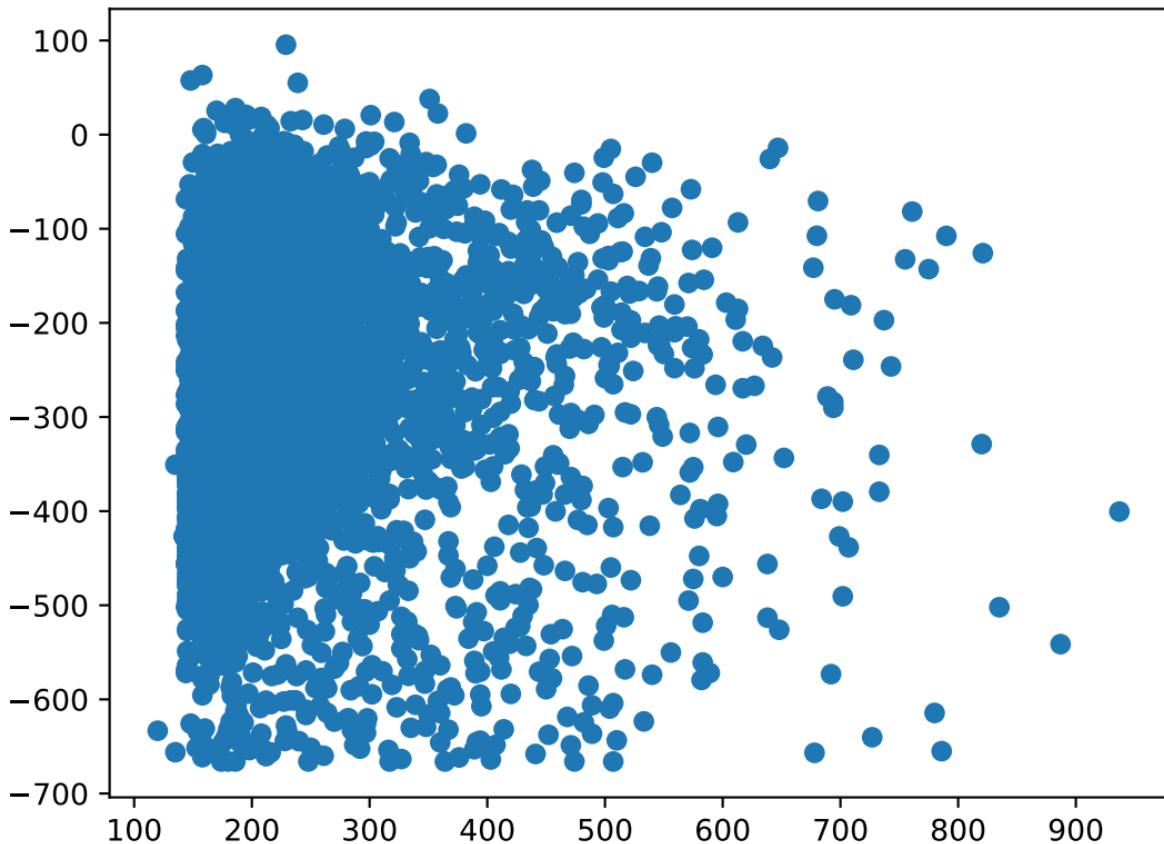
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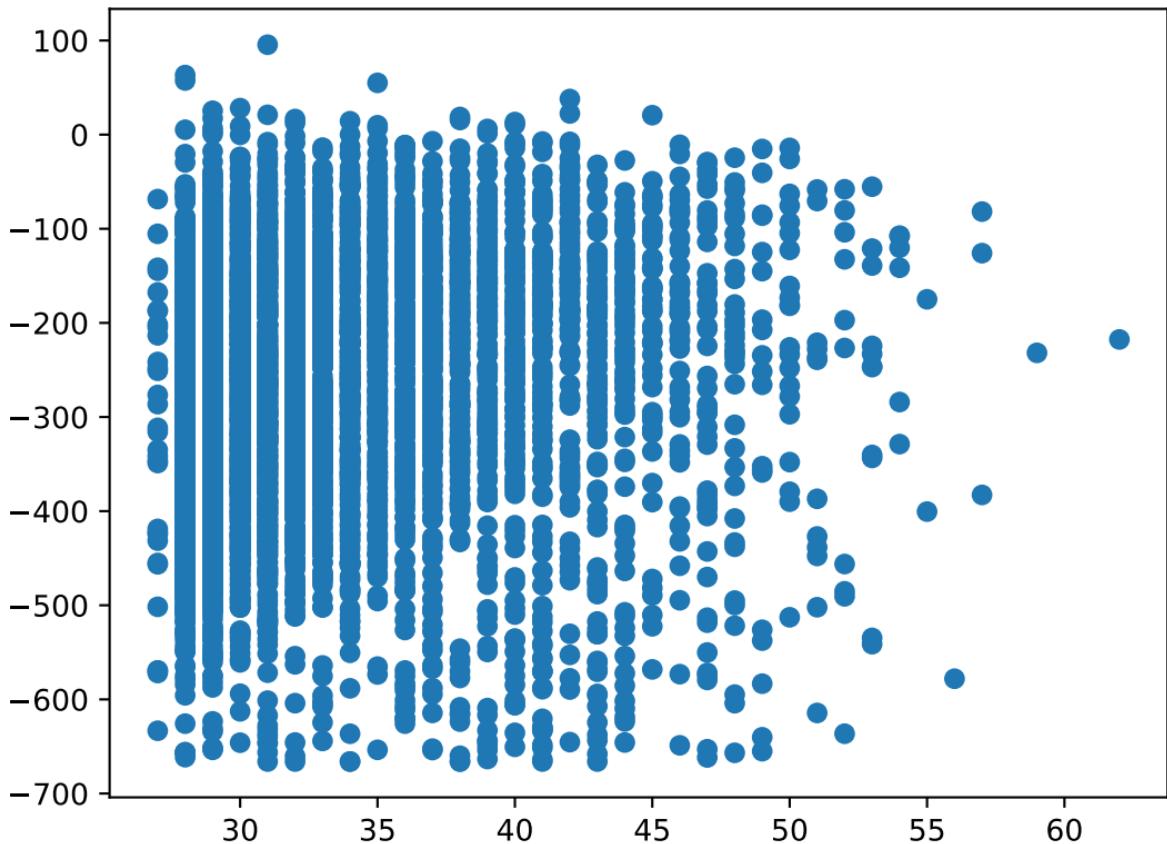
log obj func # of species vs objective function



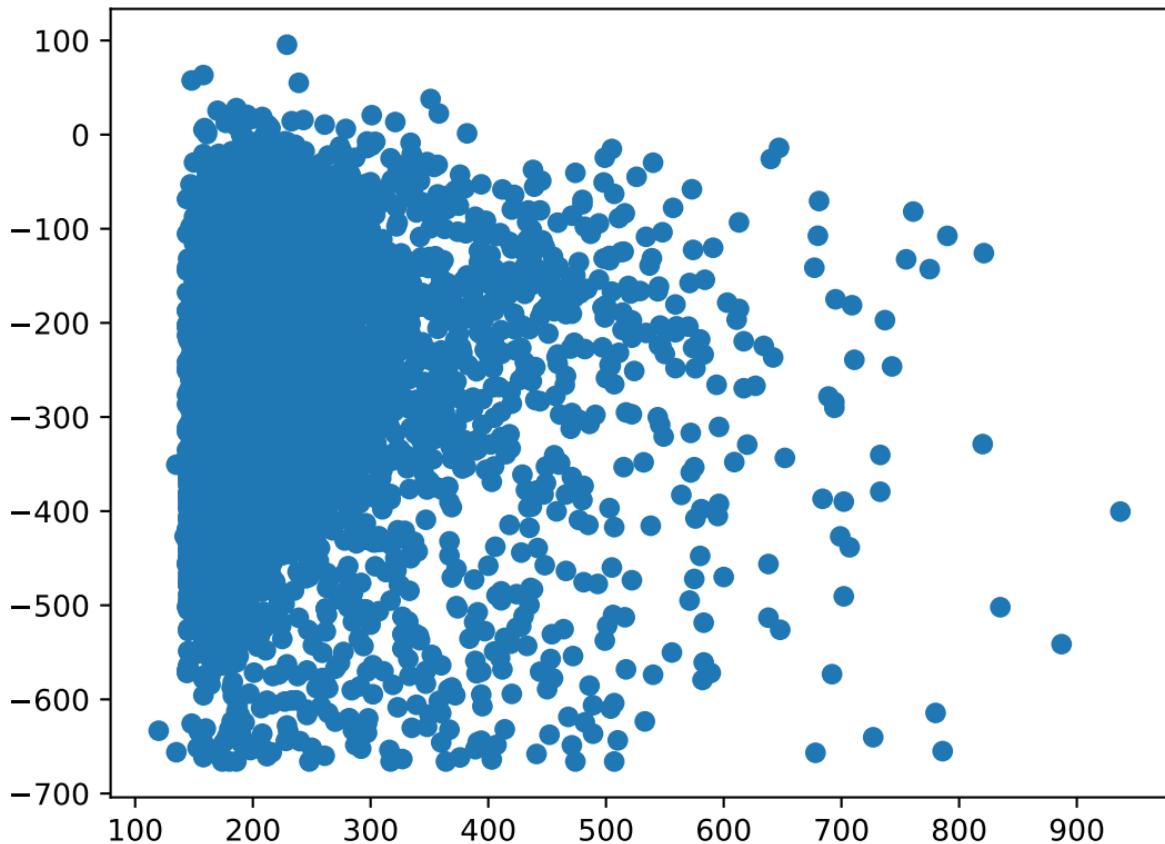
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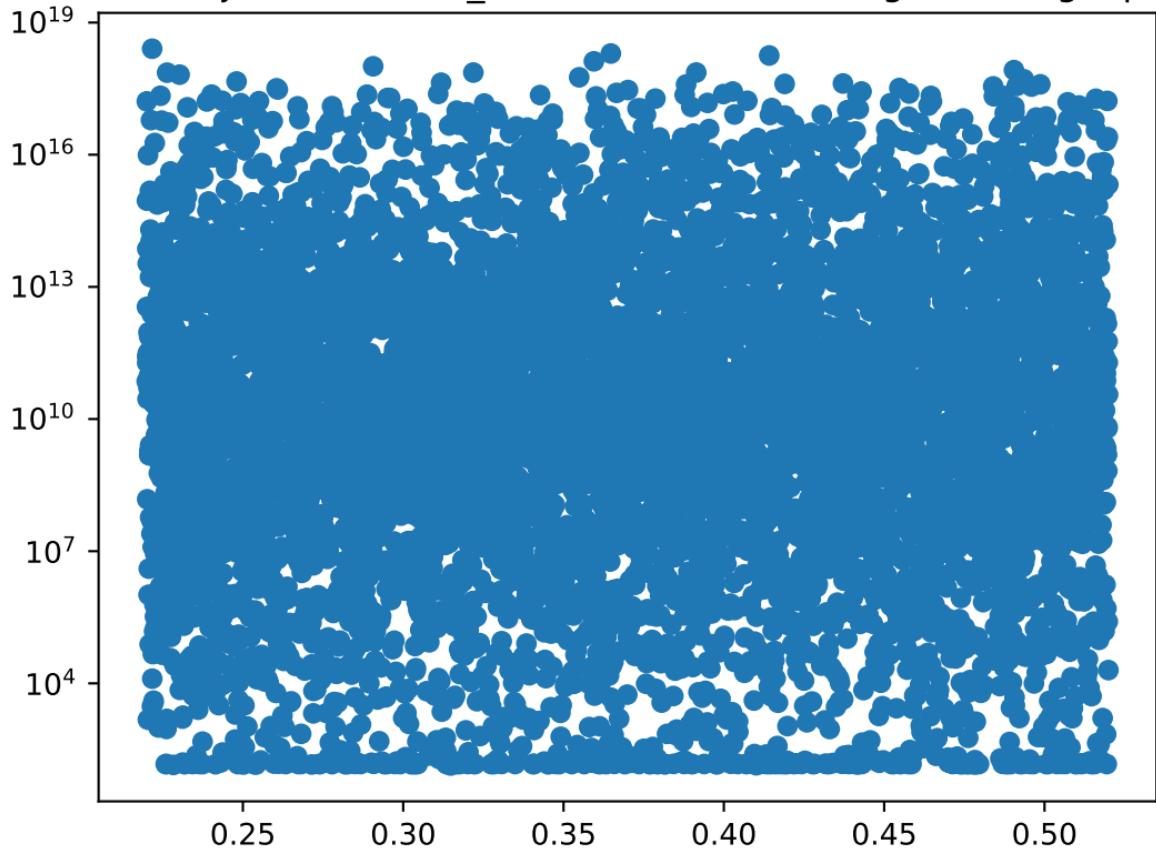
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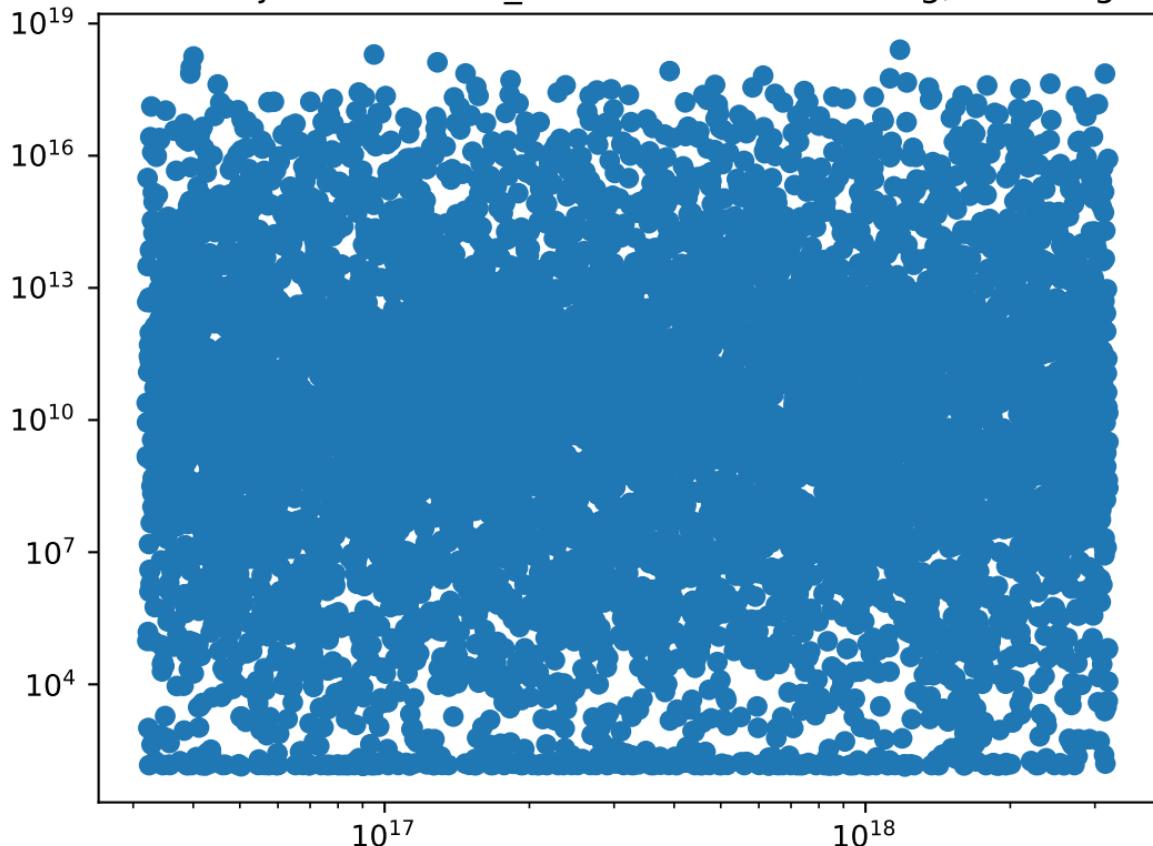
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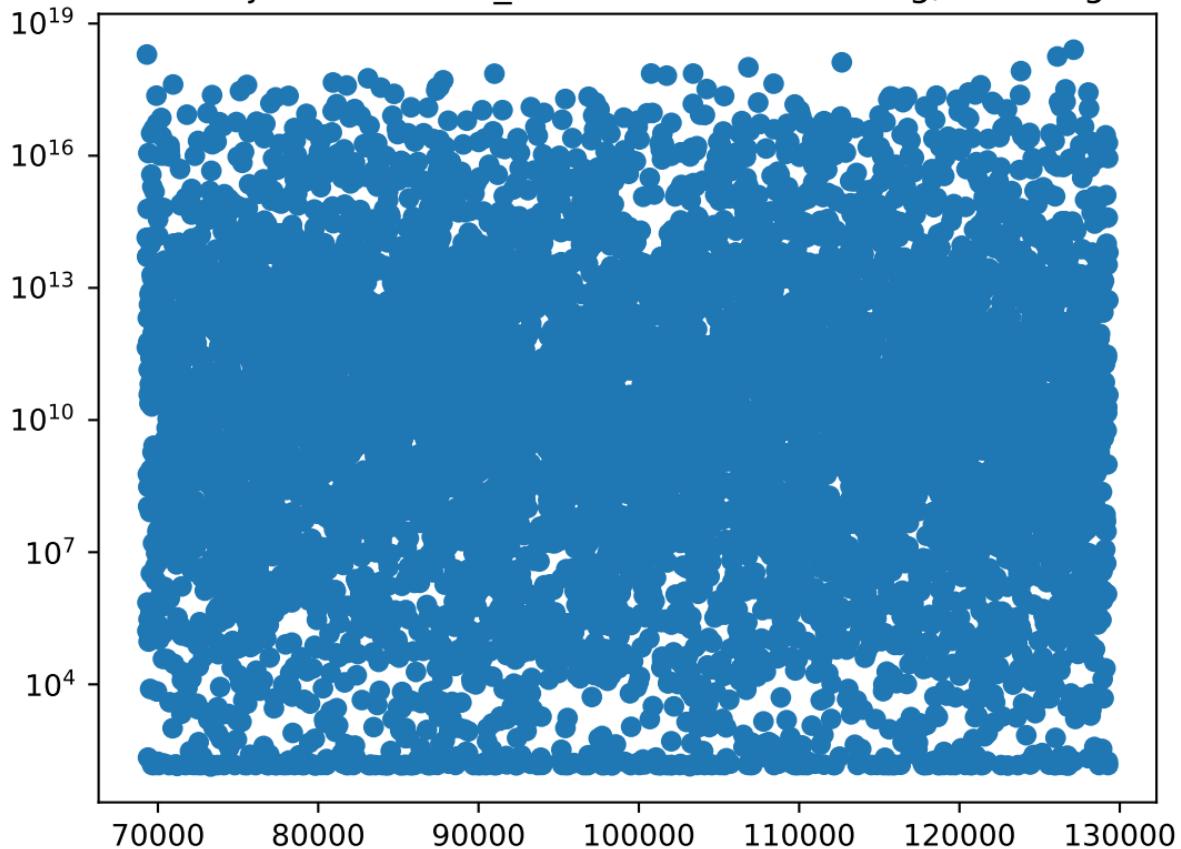
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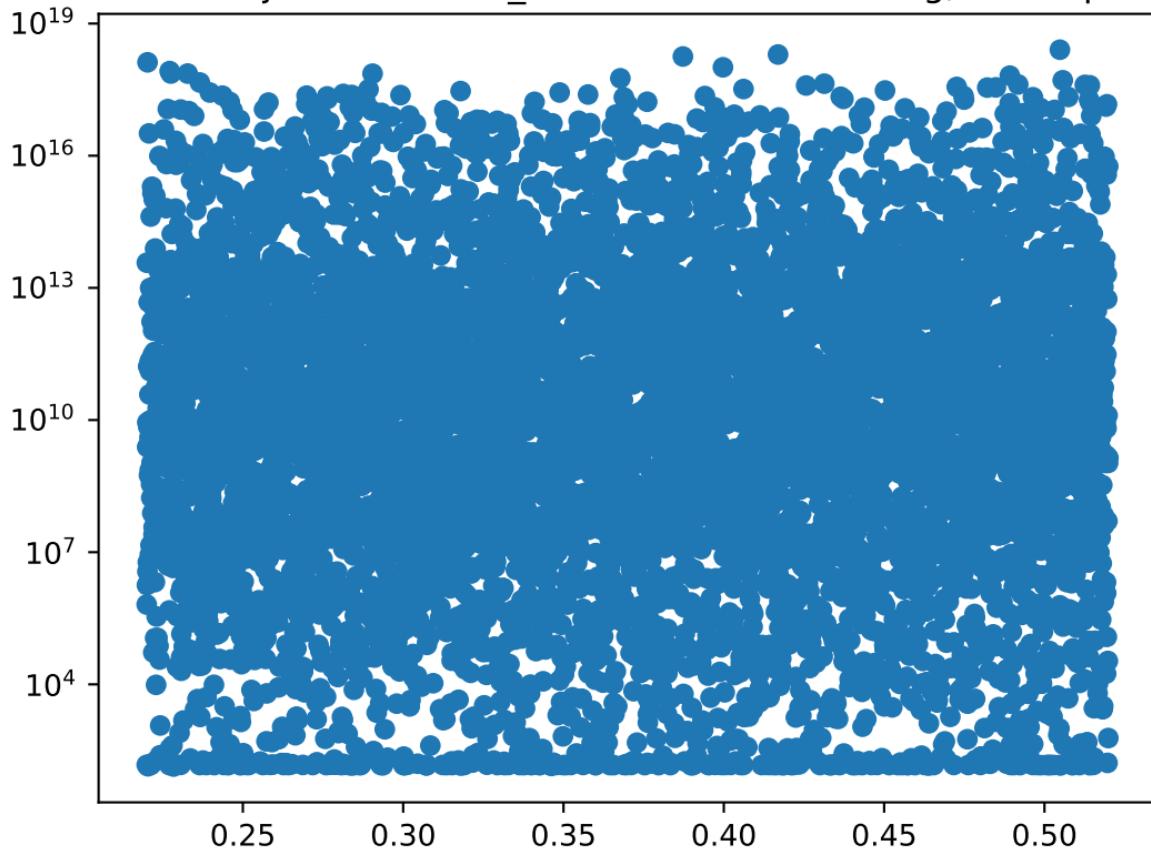
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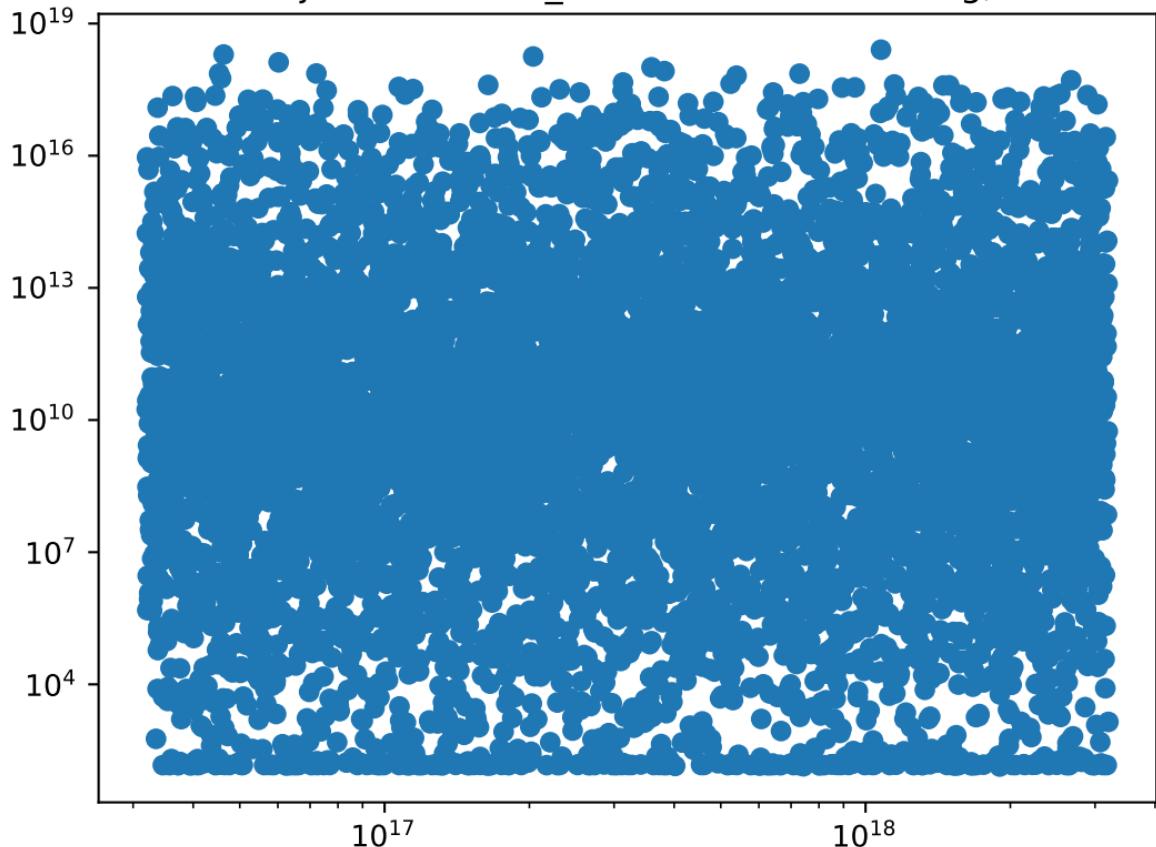
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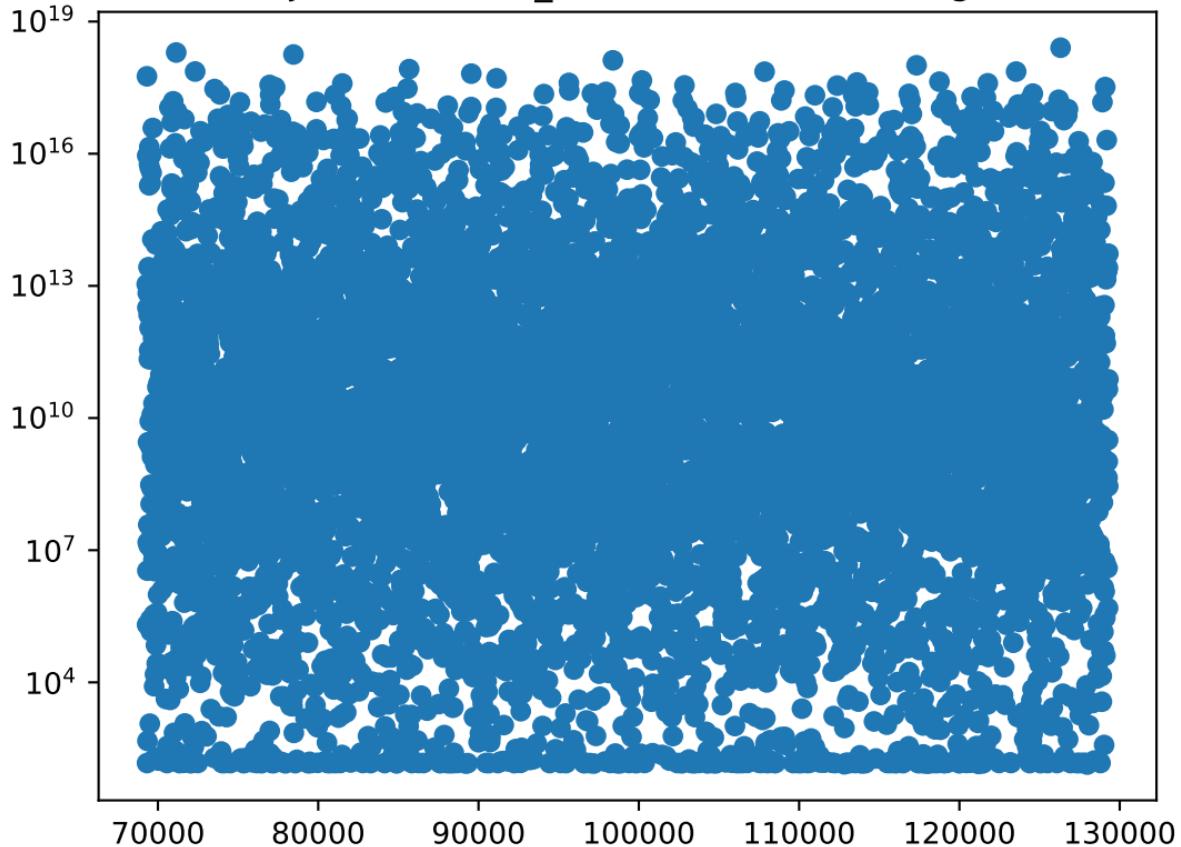
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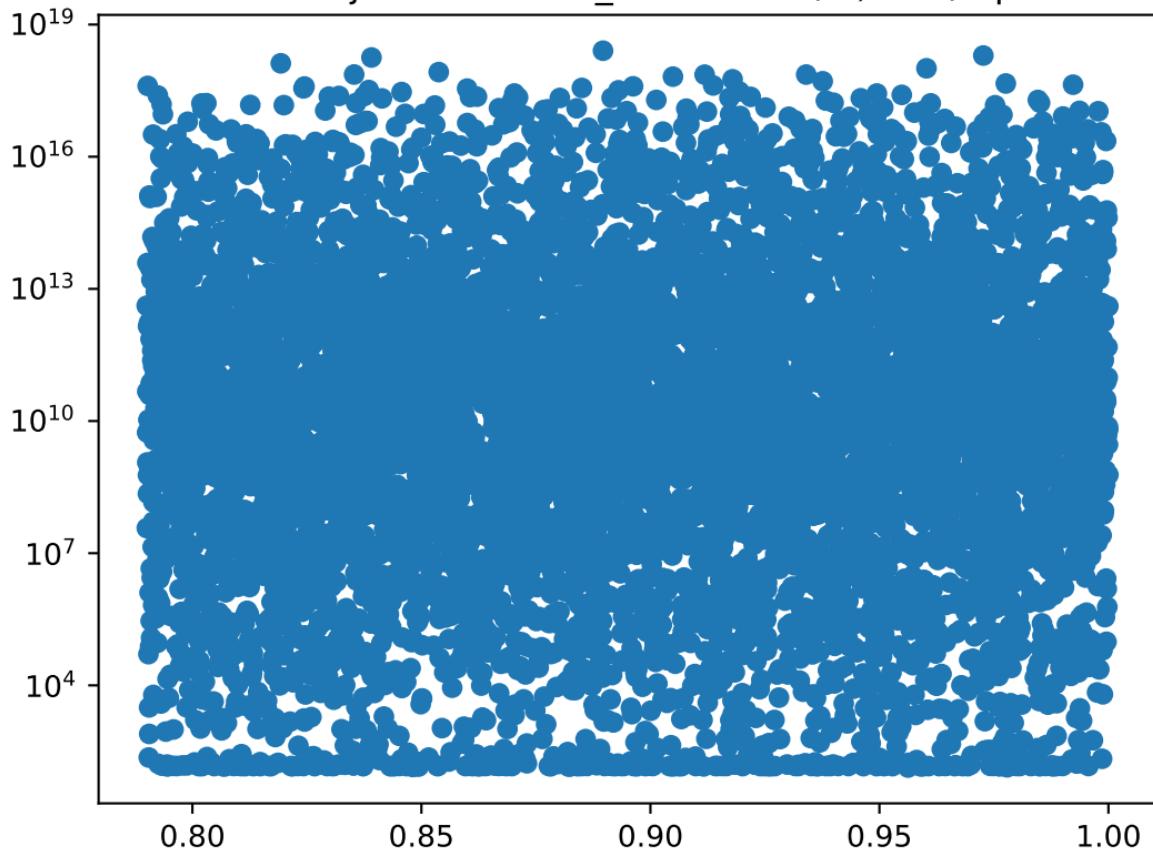
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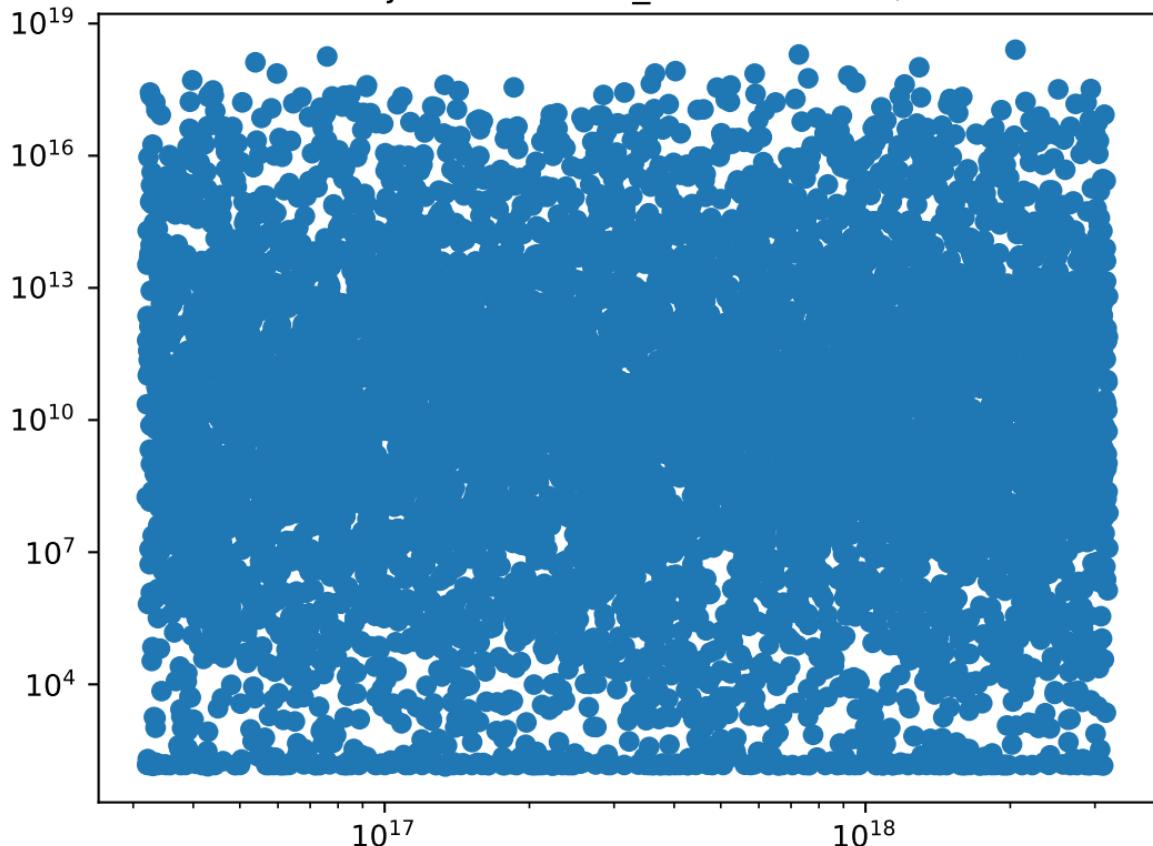
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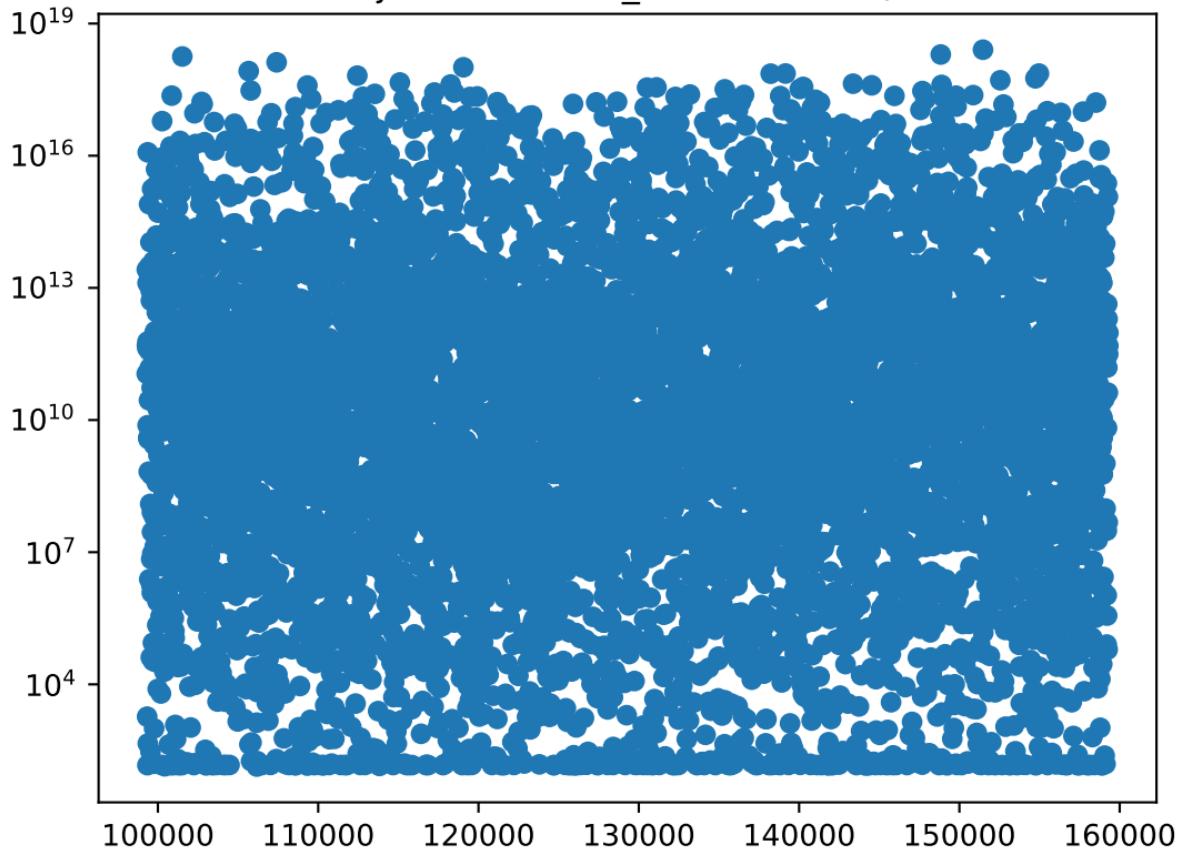
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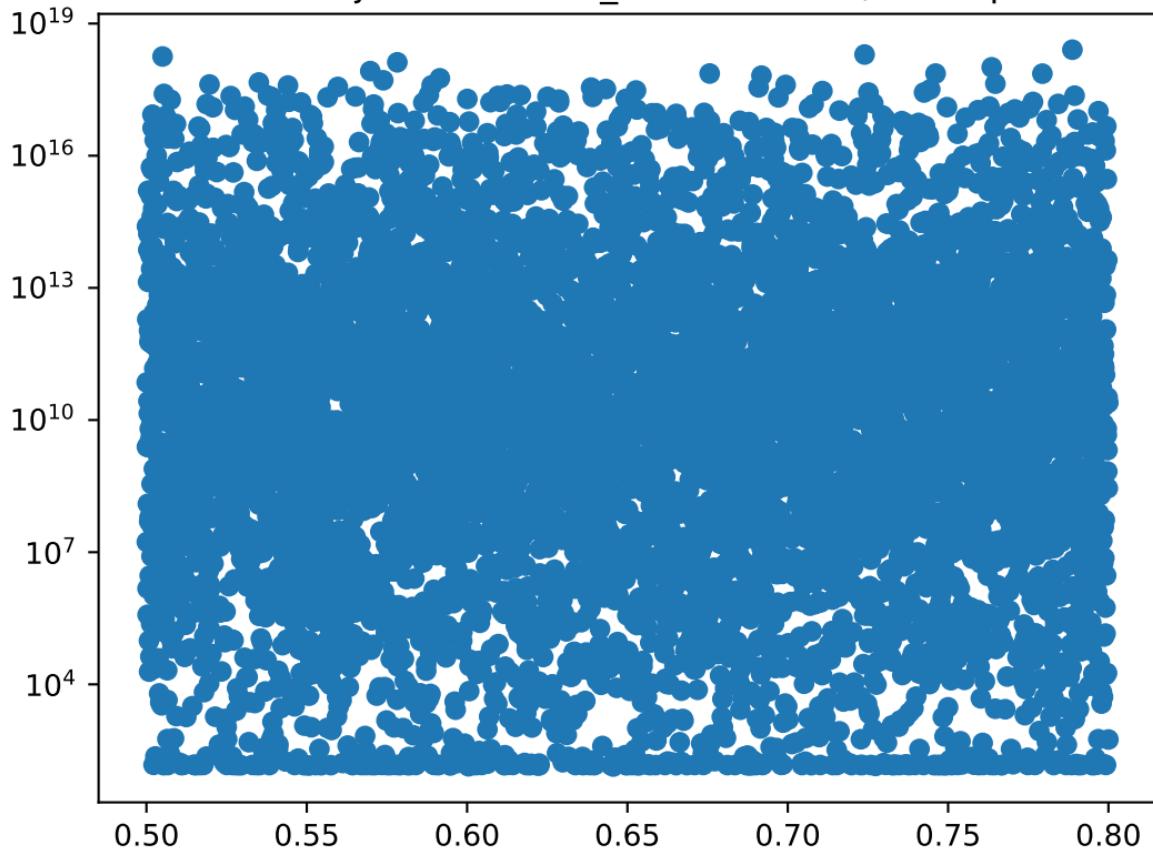
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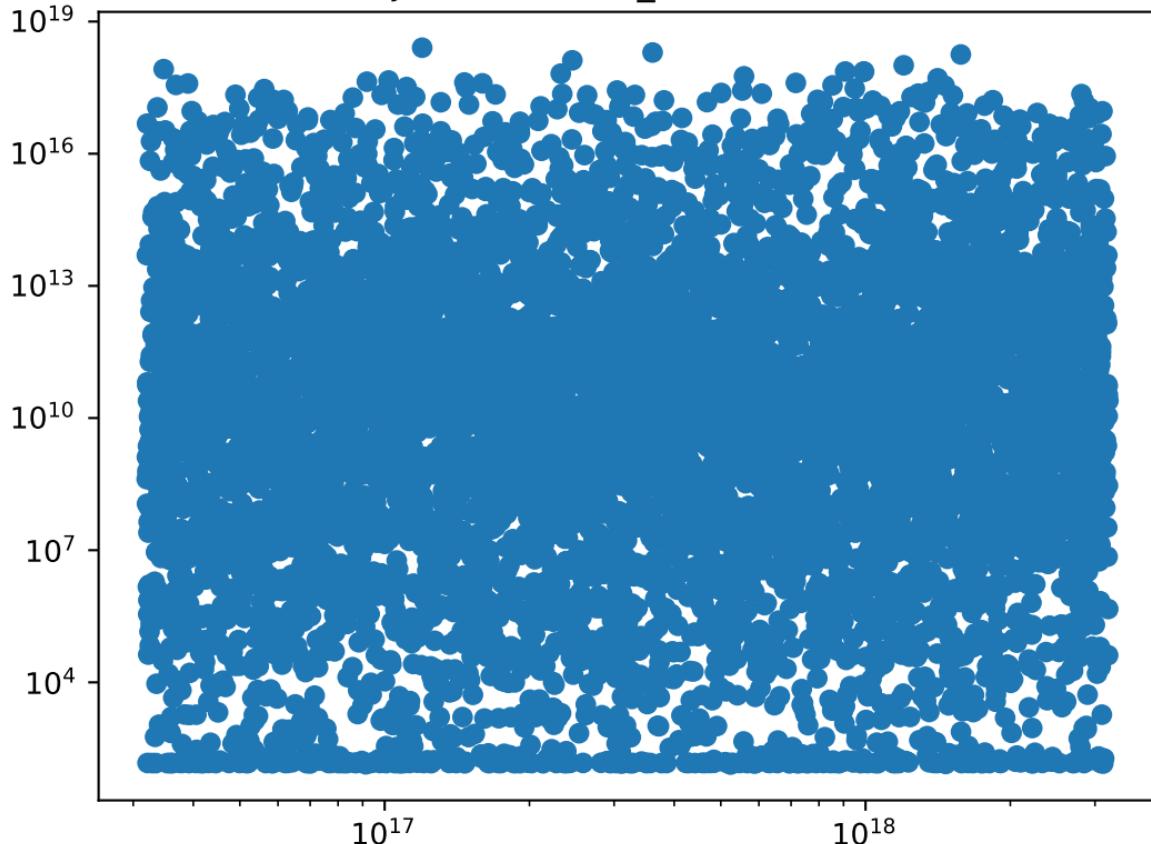
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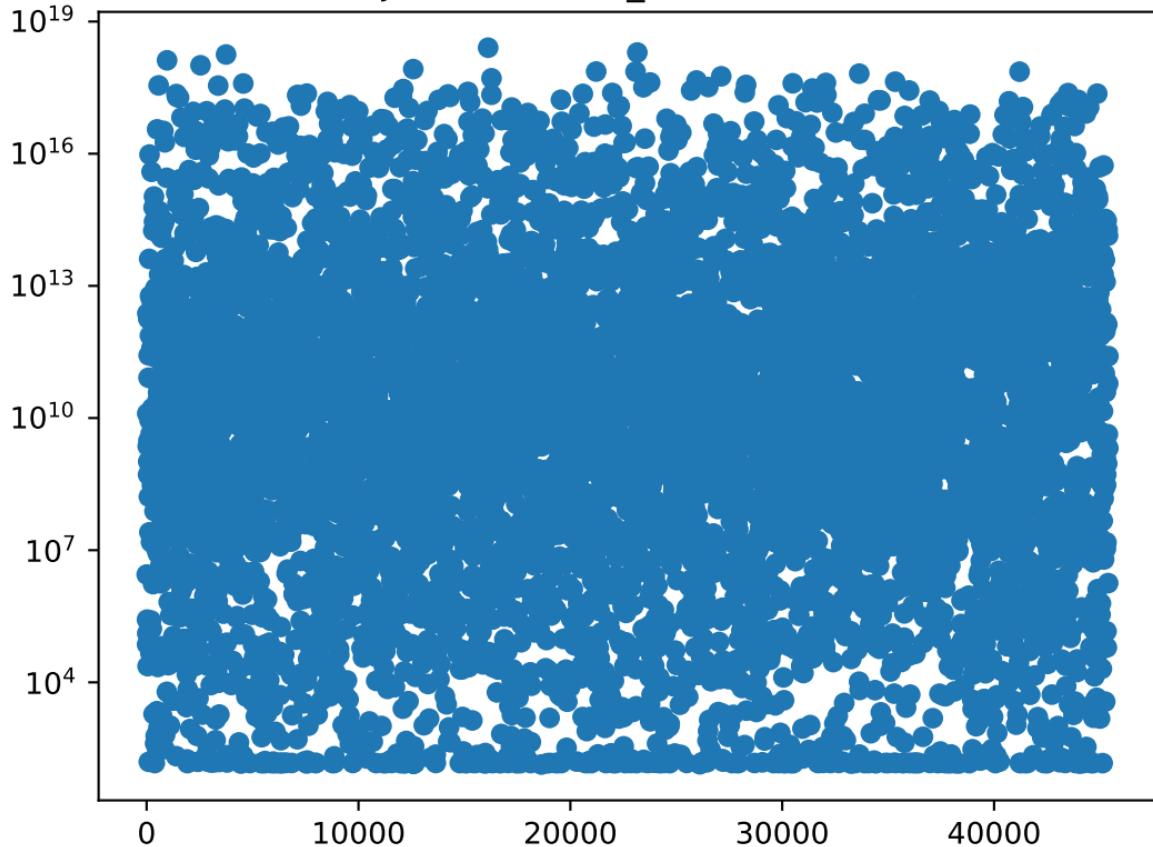
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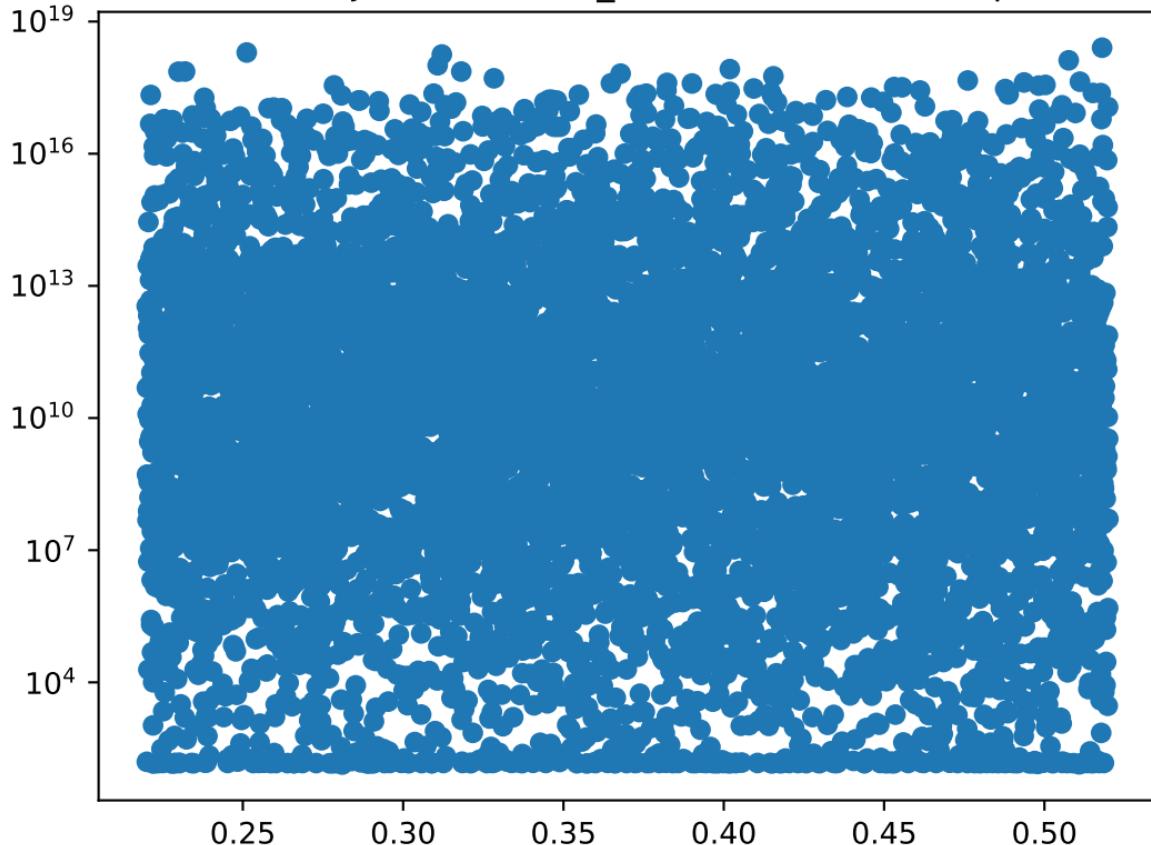
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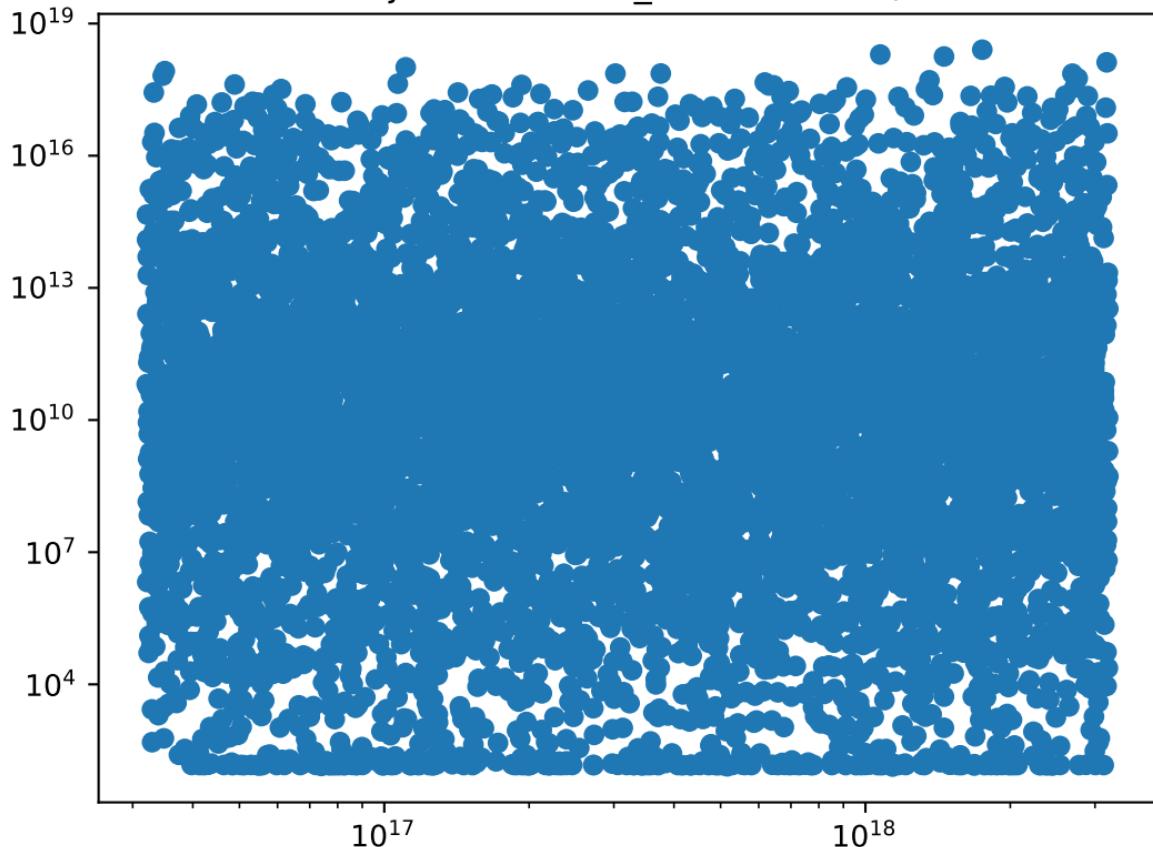
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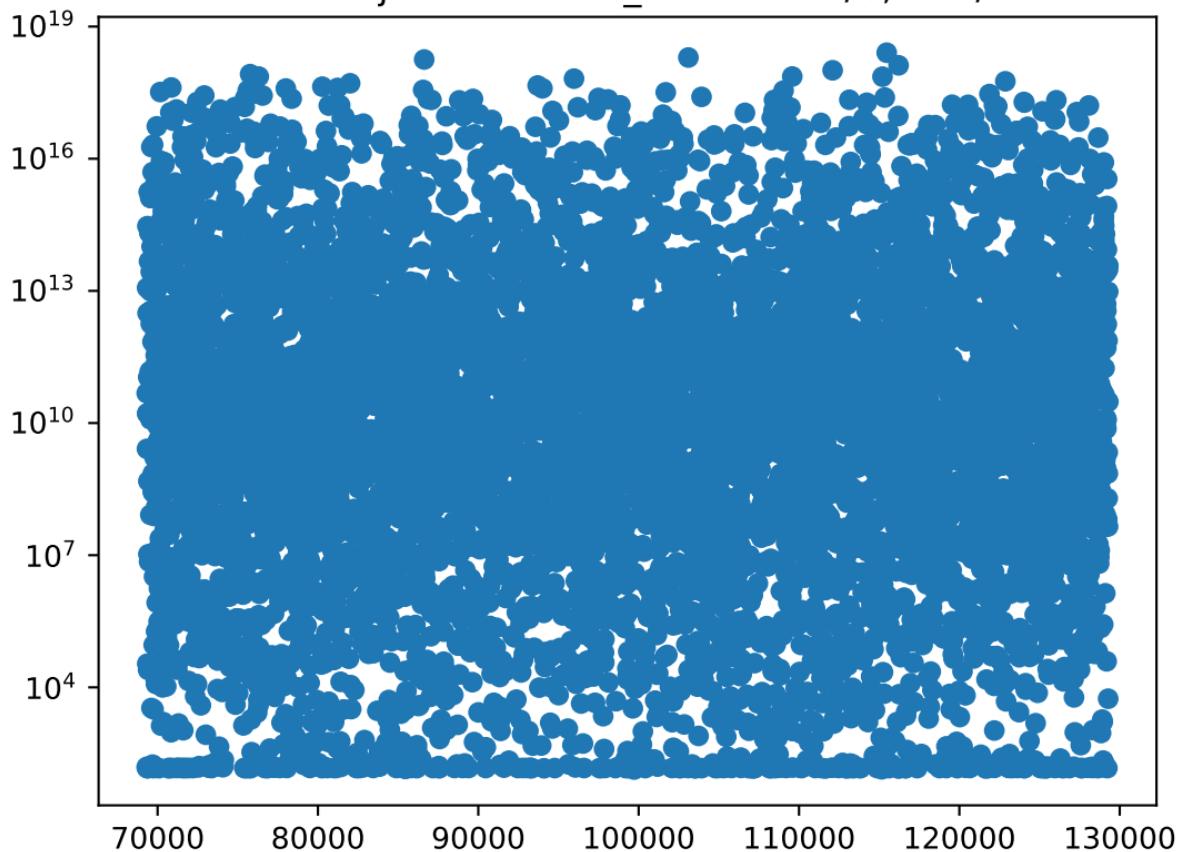
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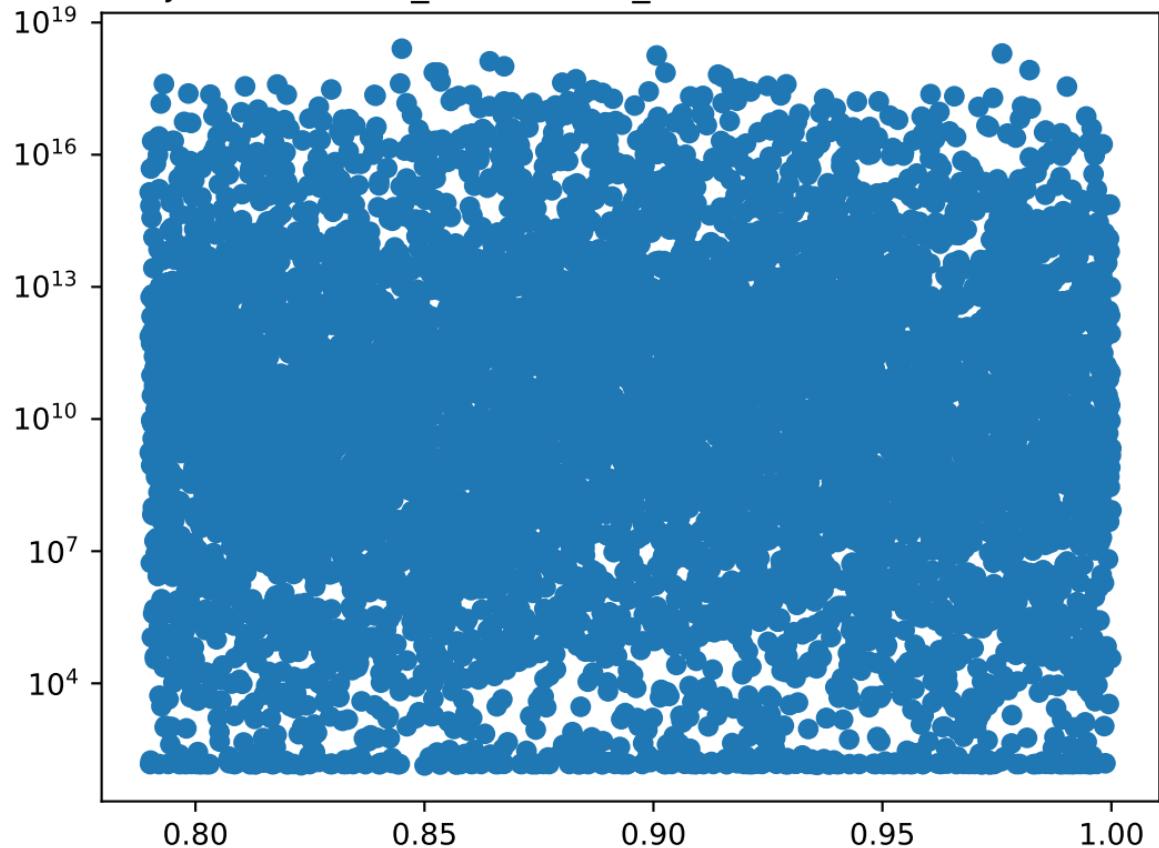
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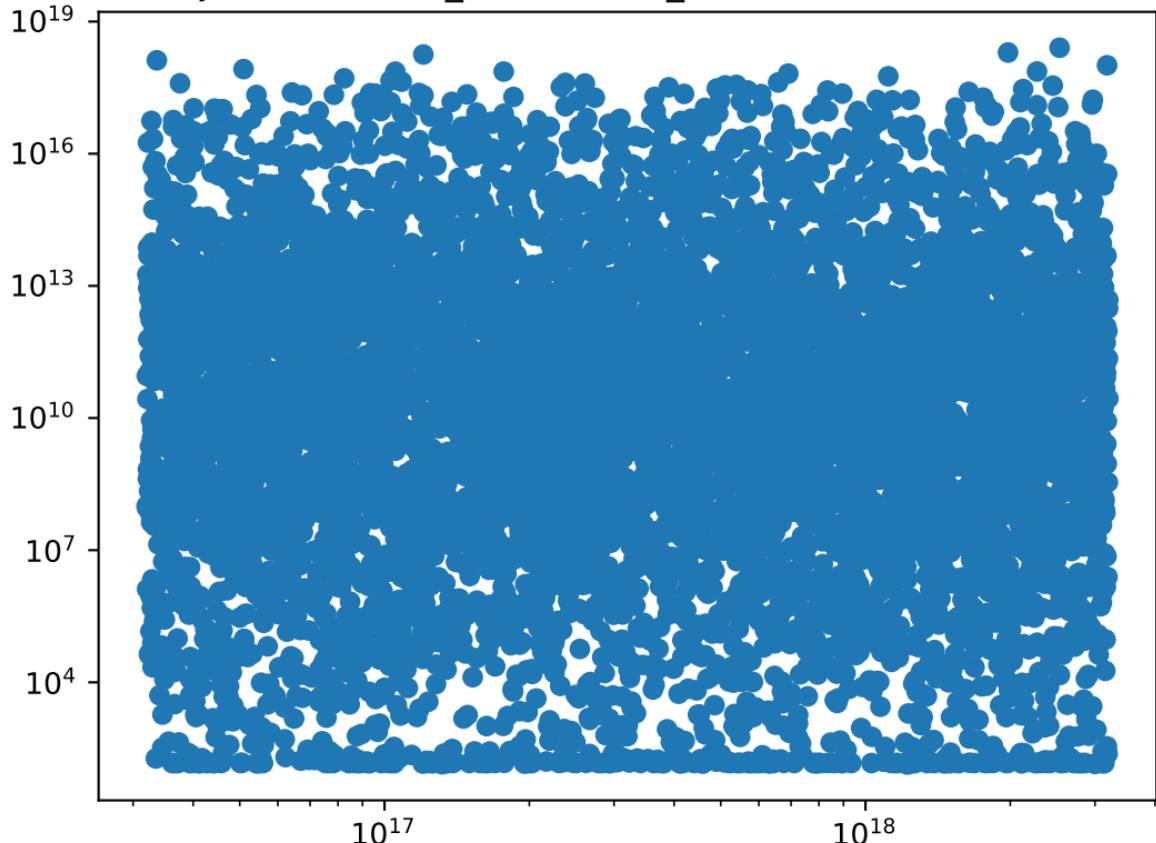
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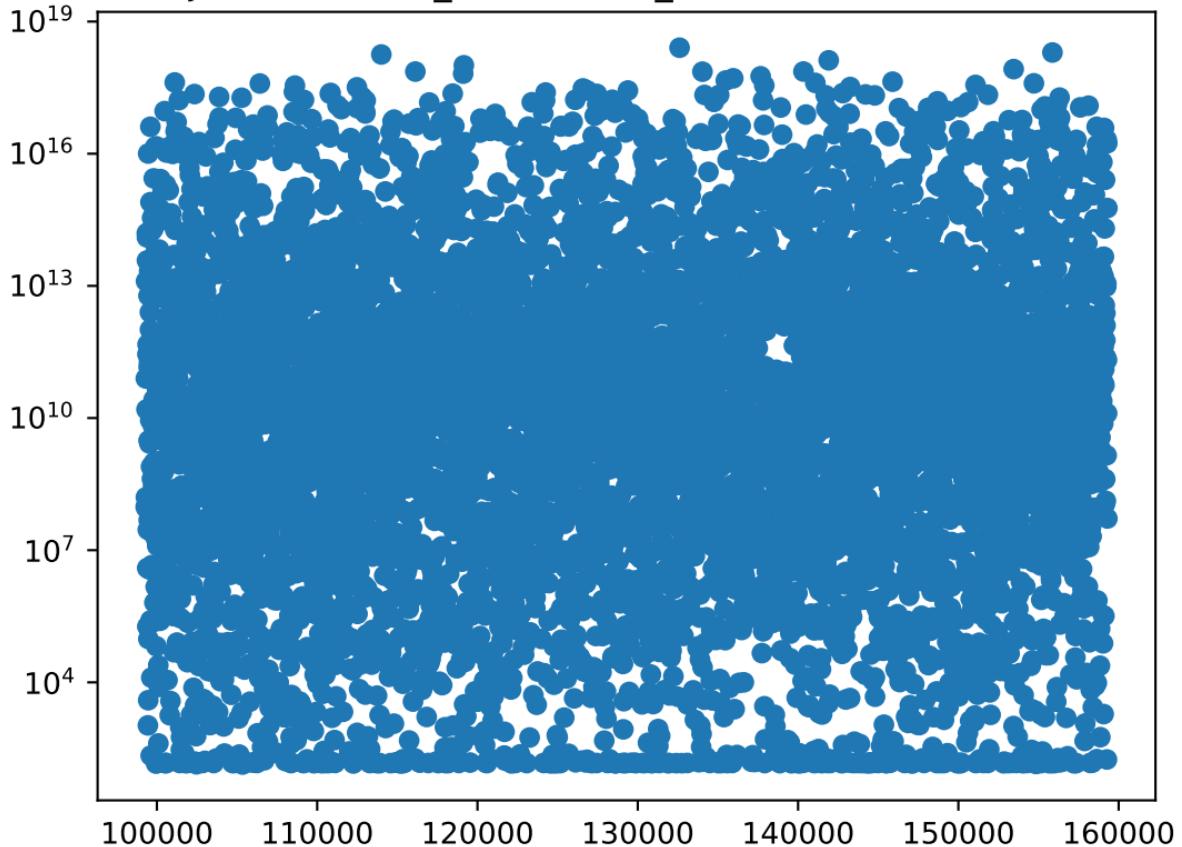
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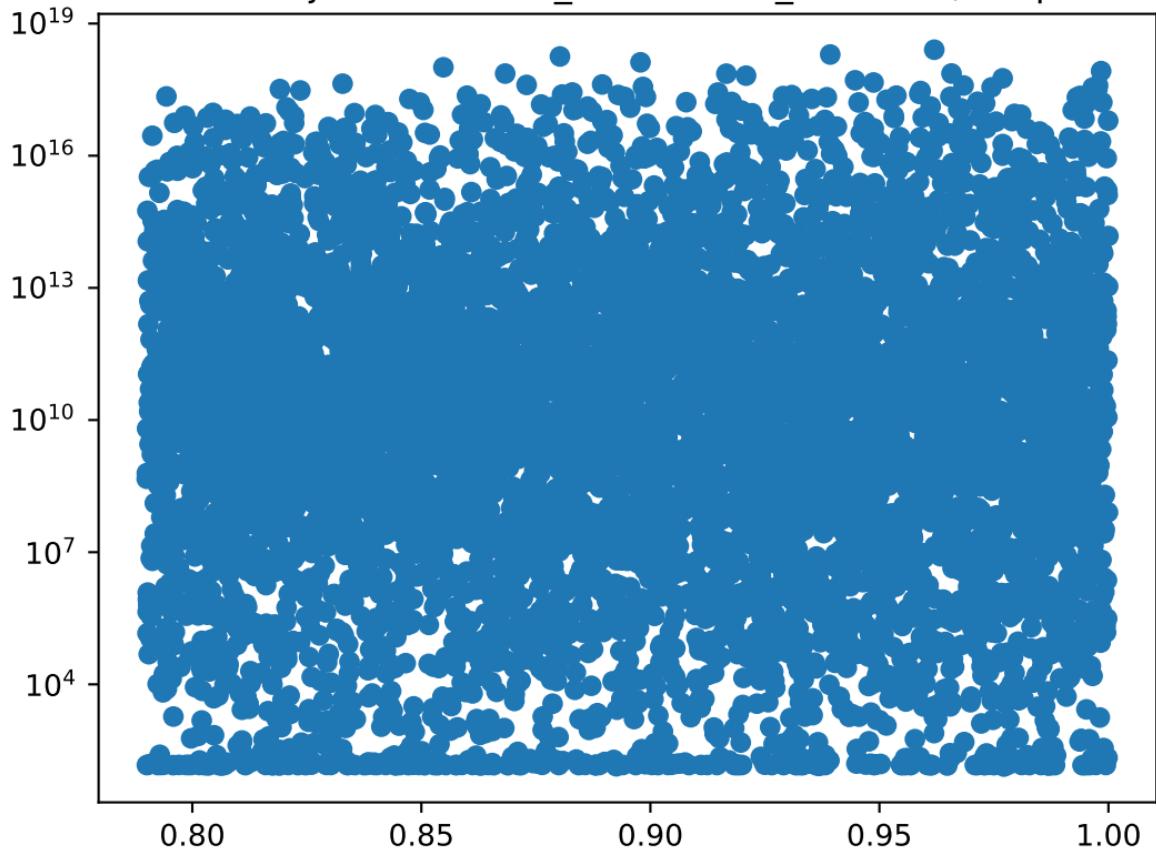
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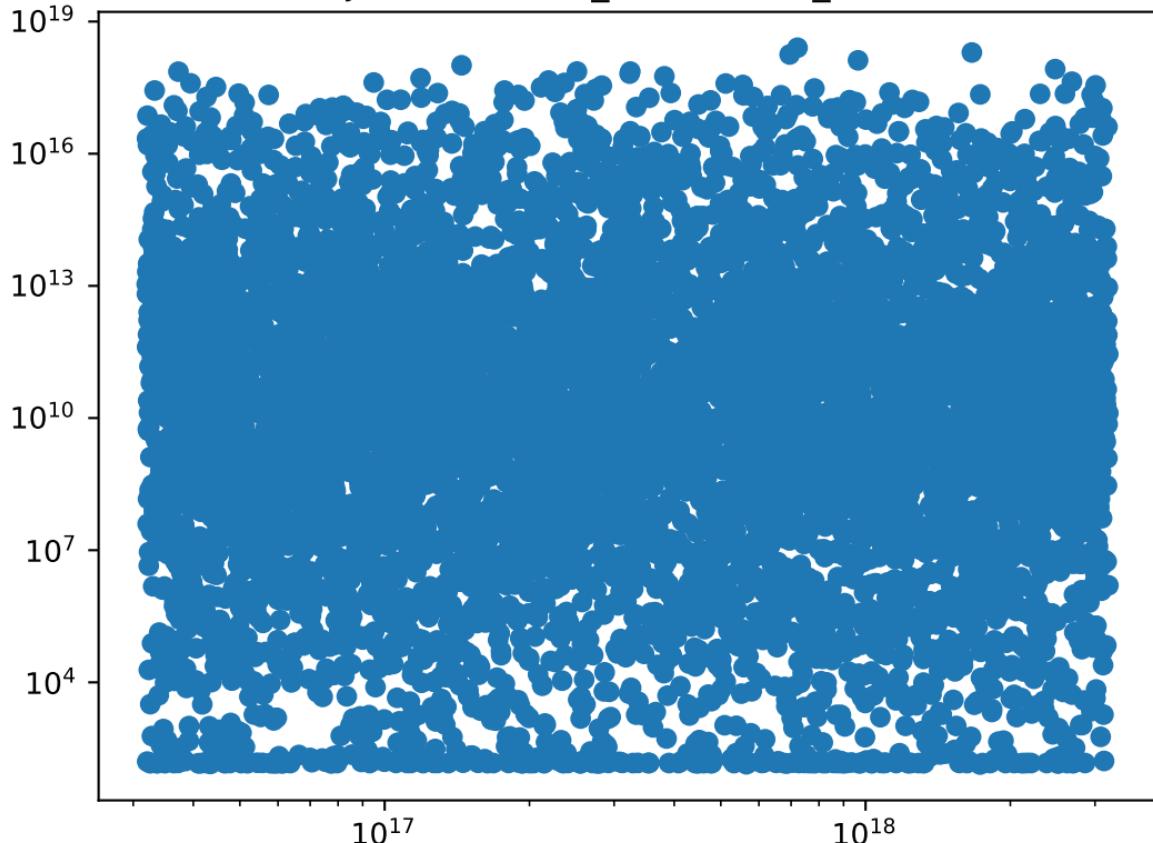
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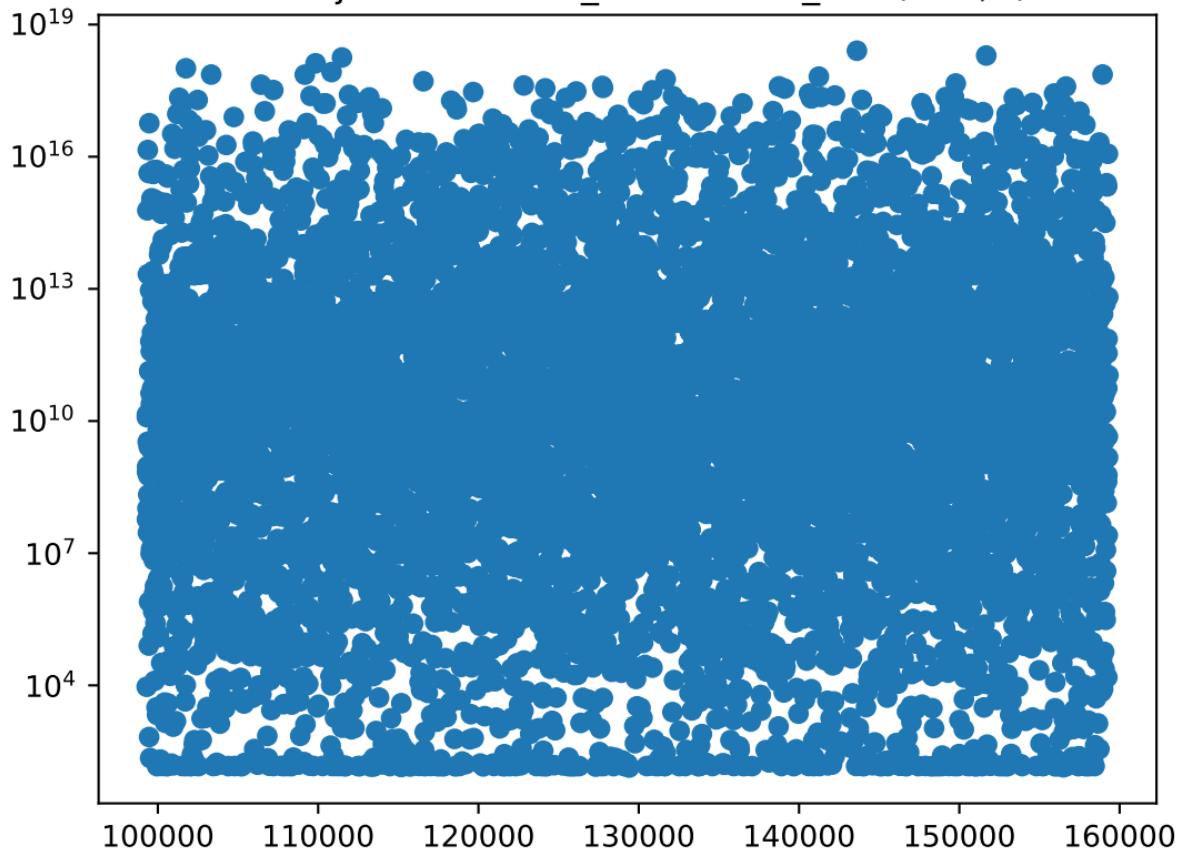
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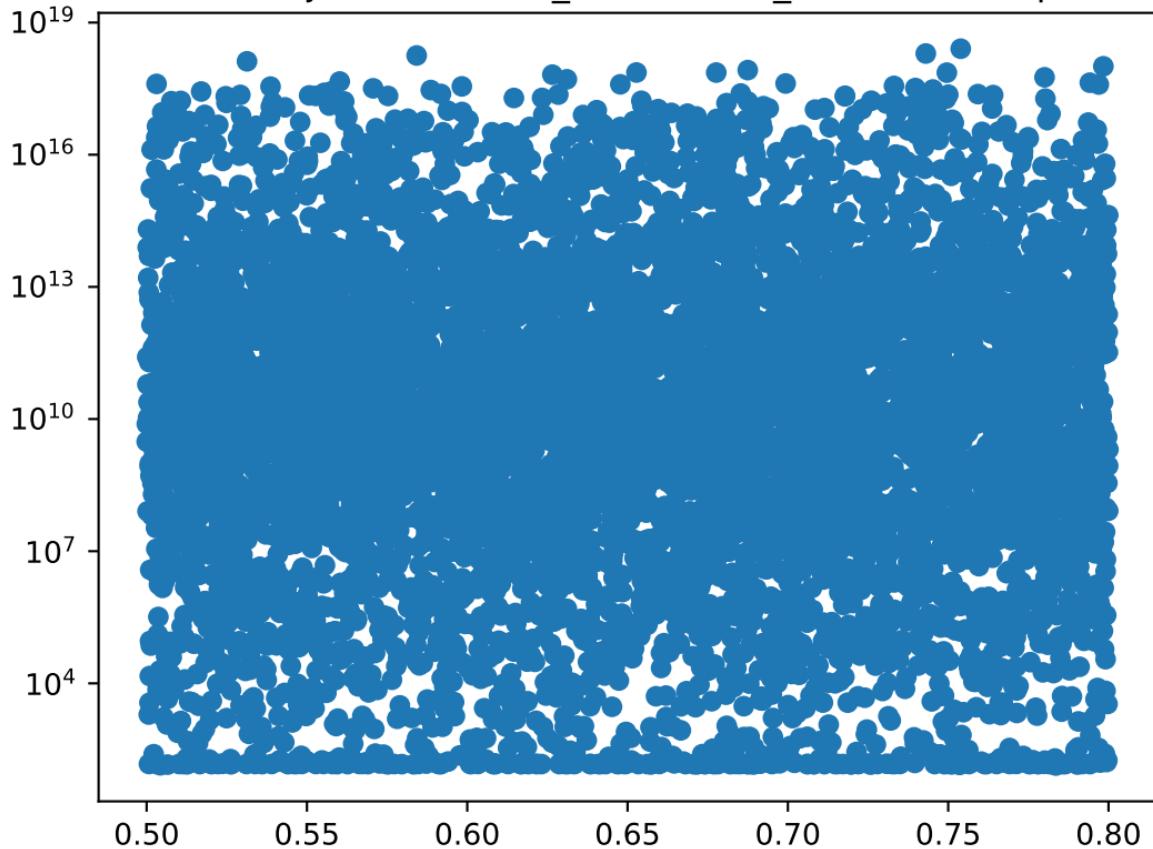
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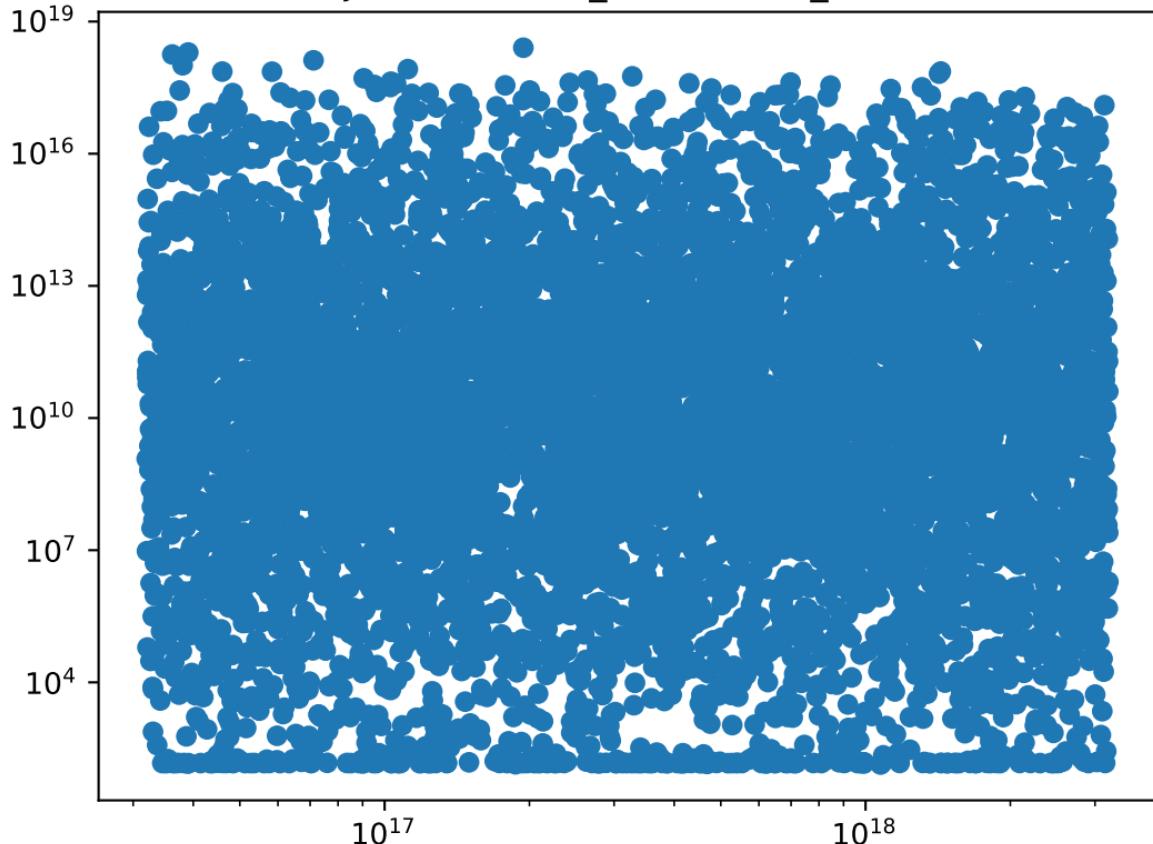
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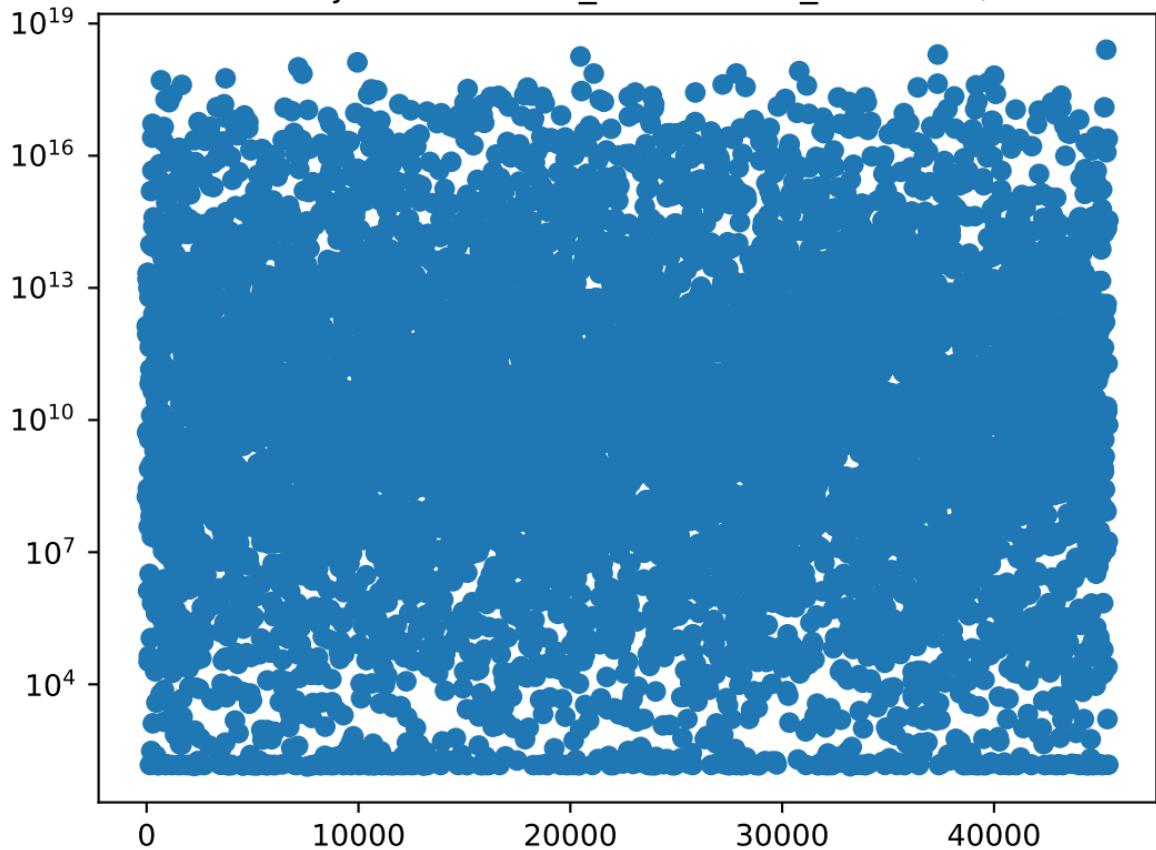
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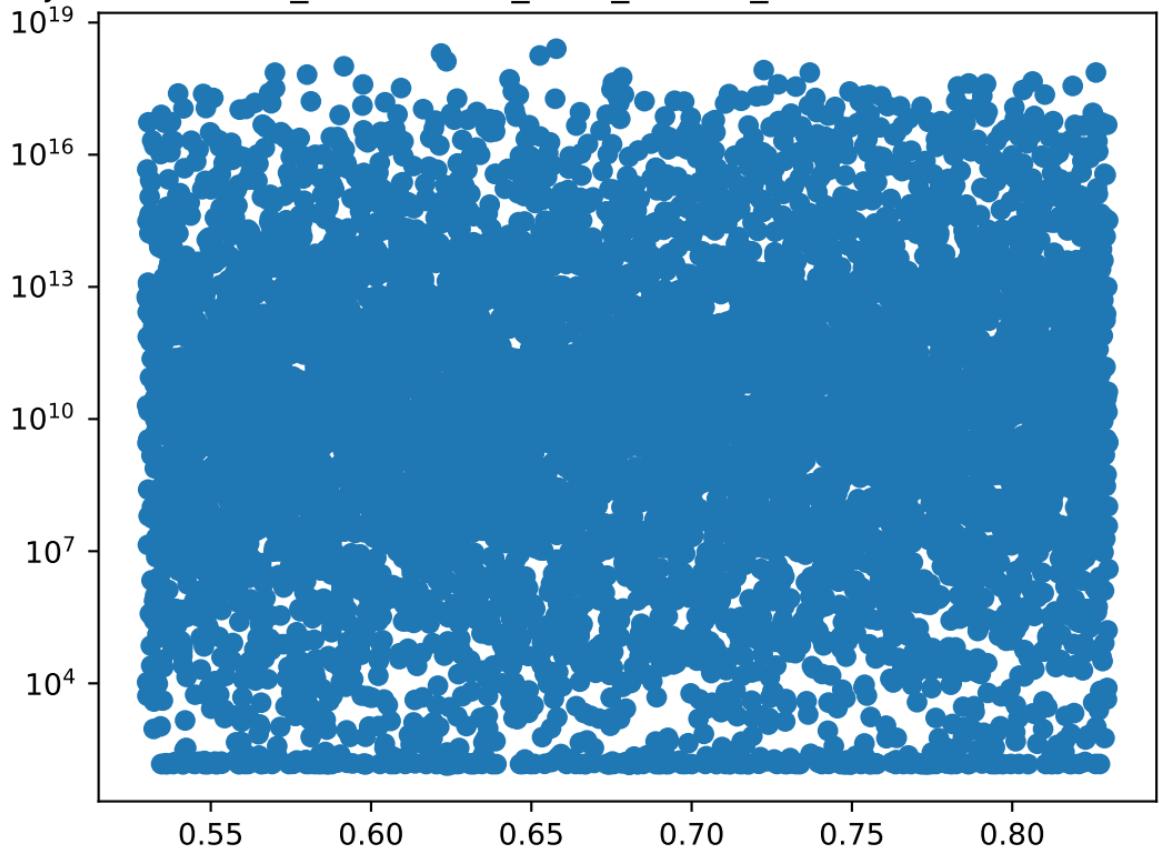
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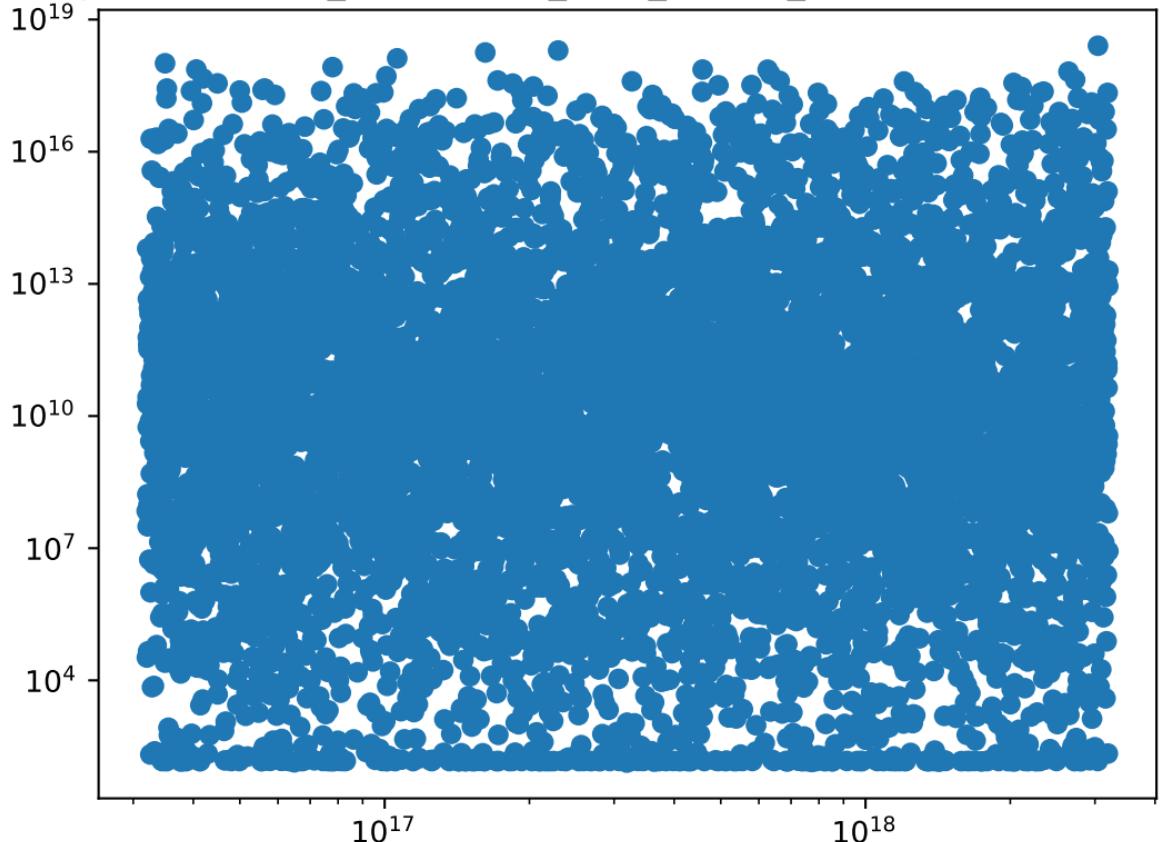
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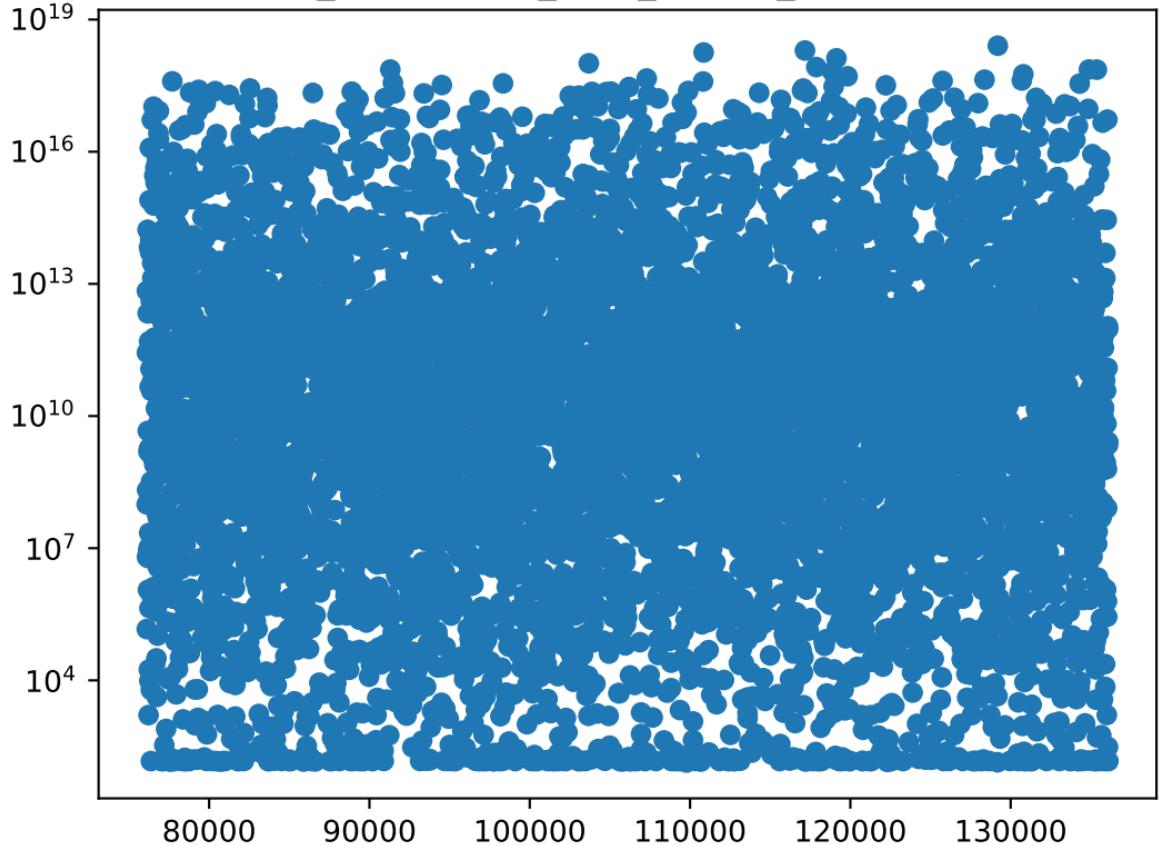
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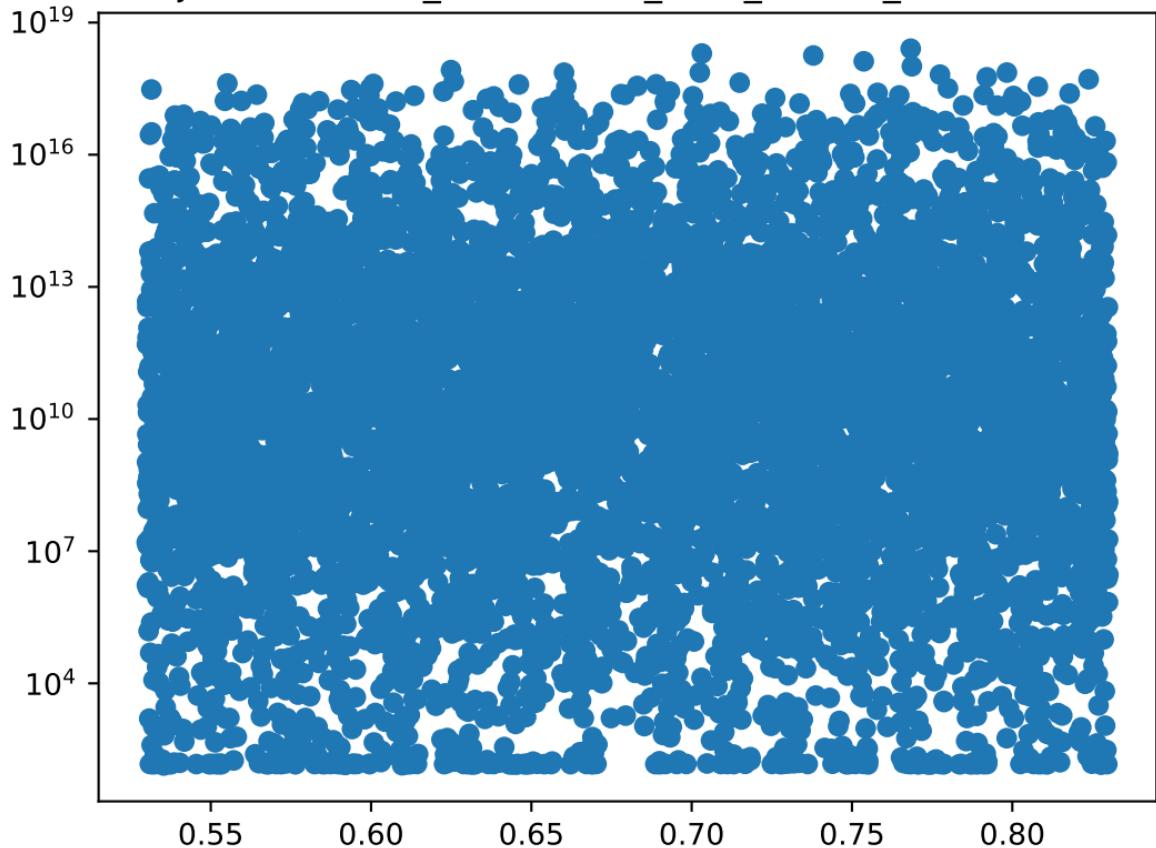
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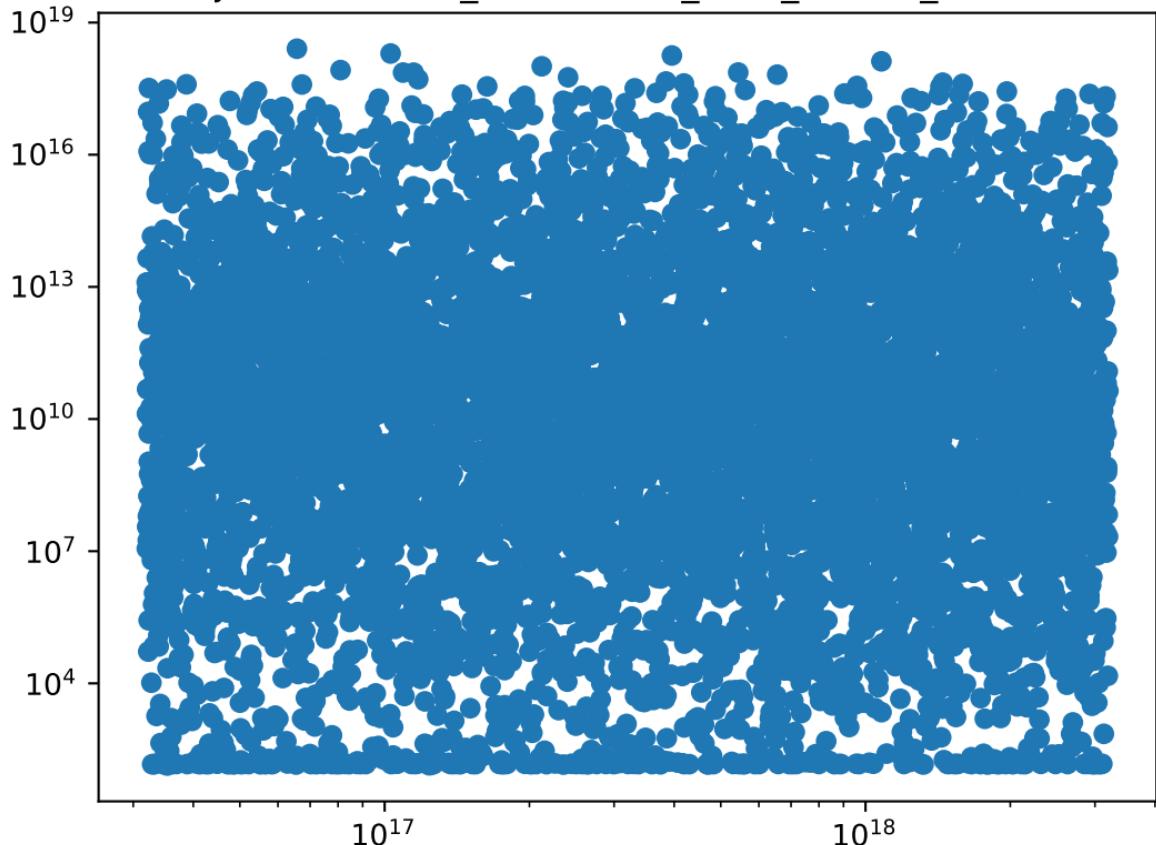
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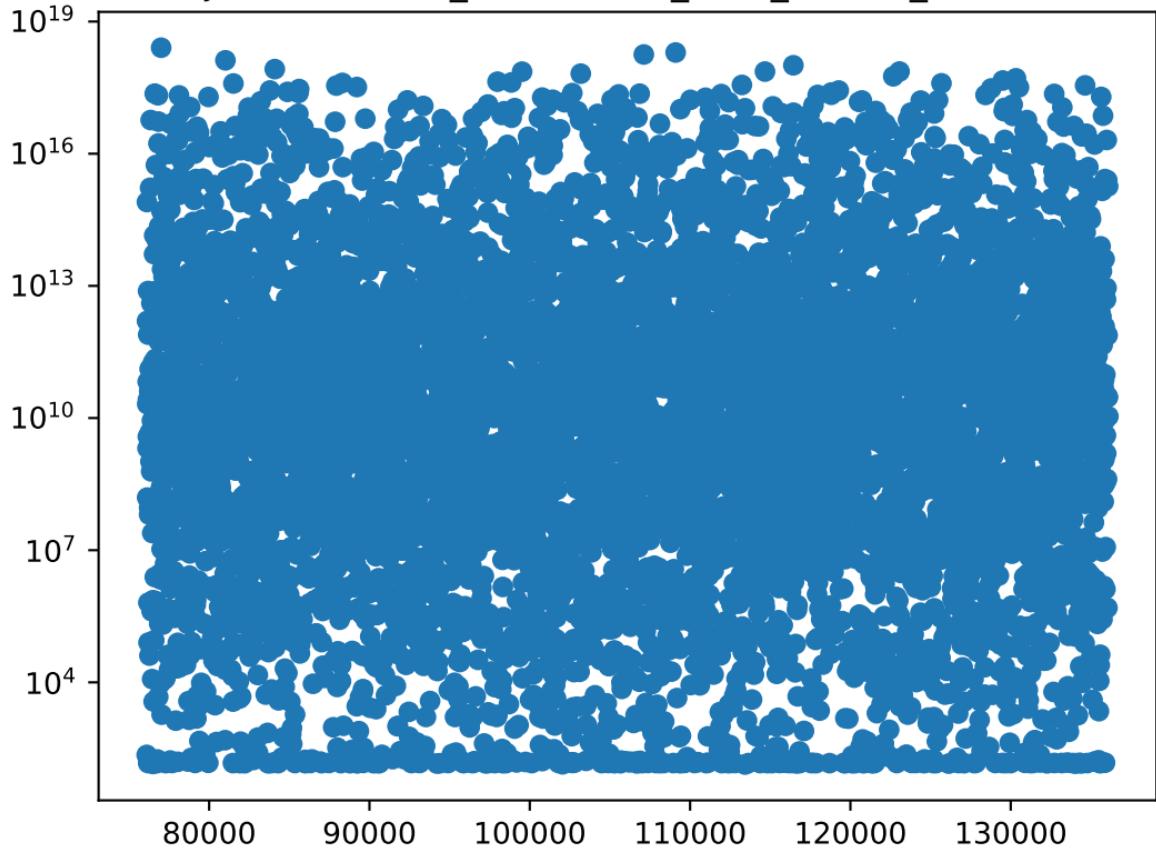
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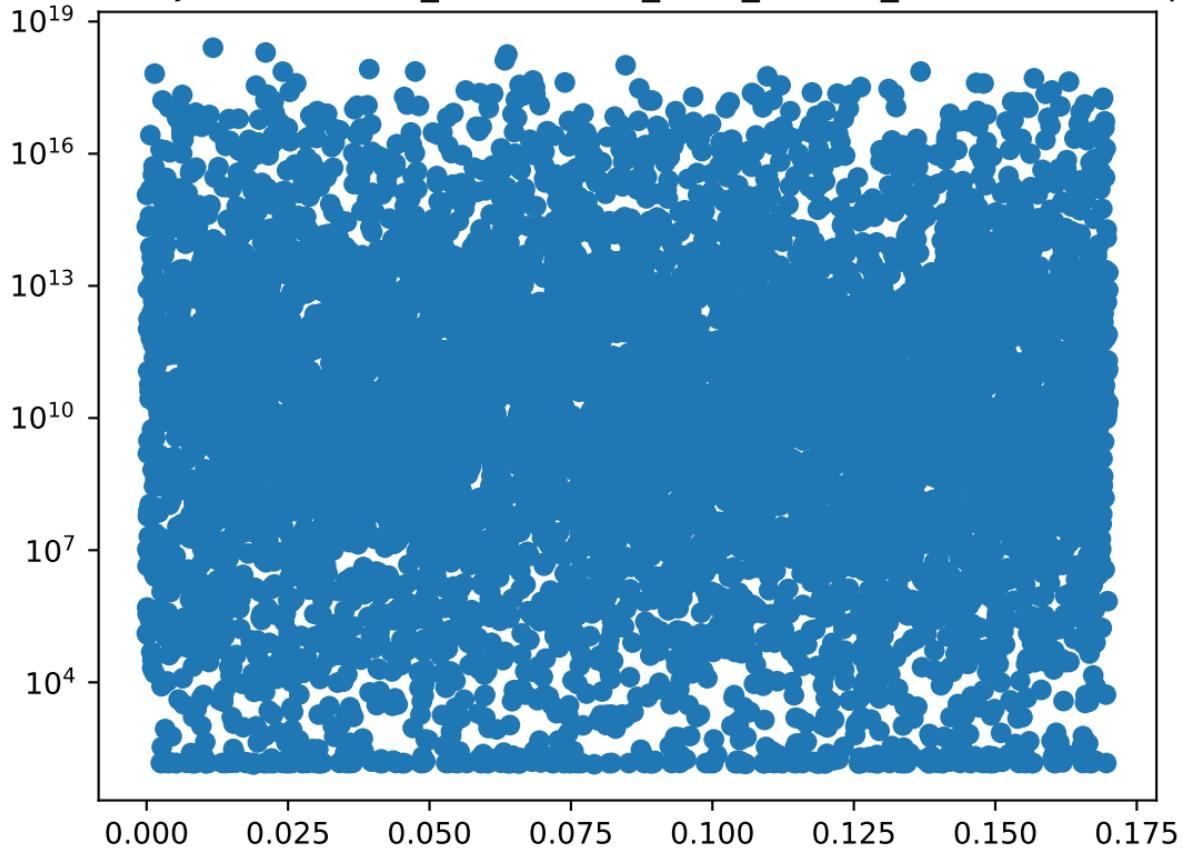
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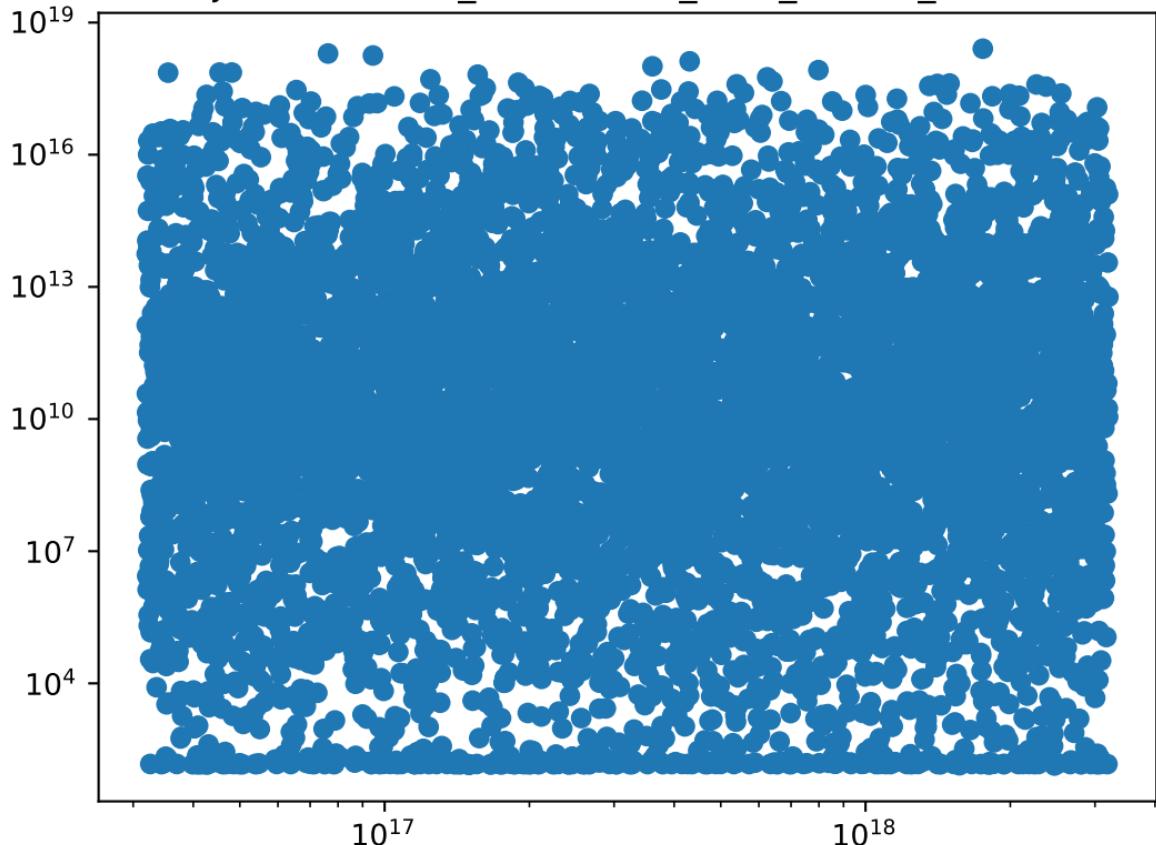
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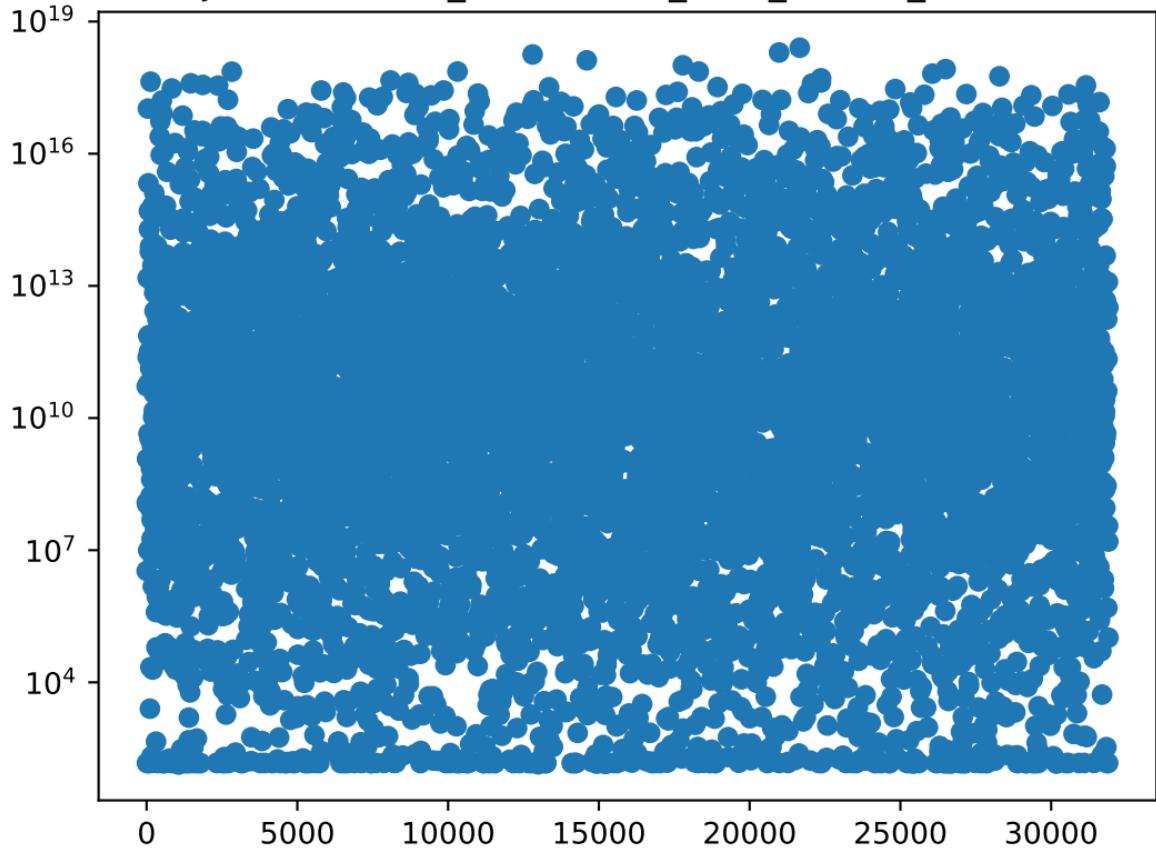
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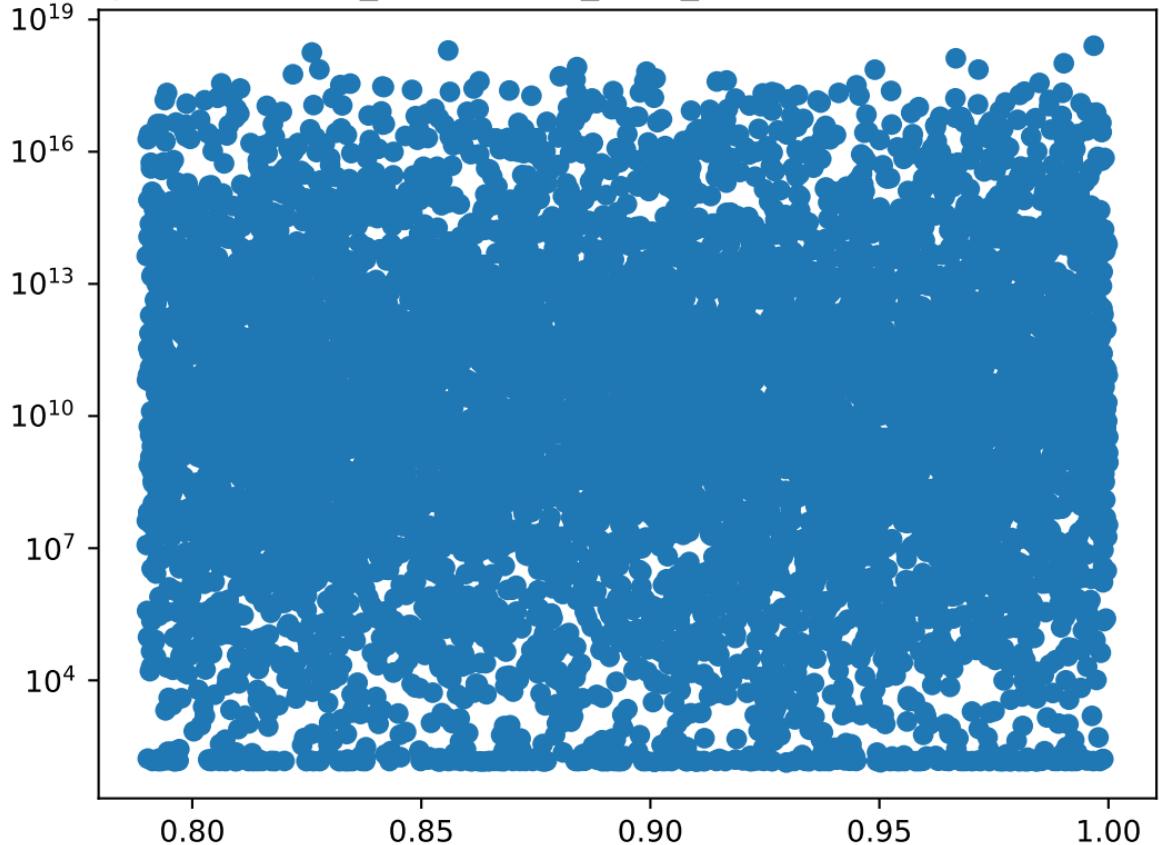
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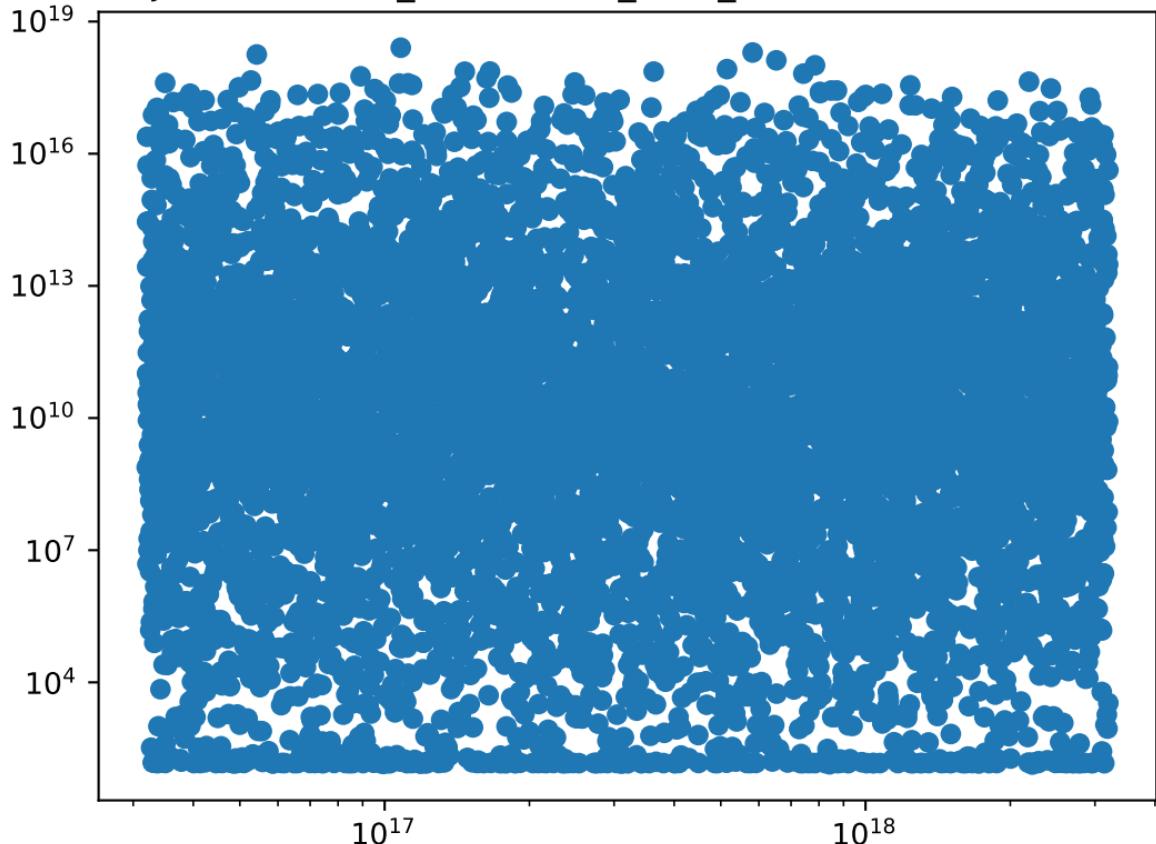
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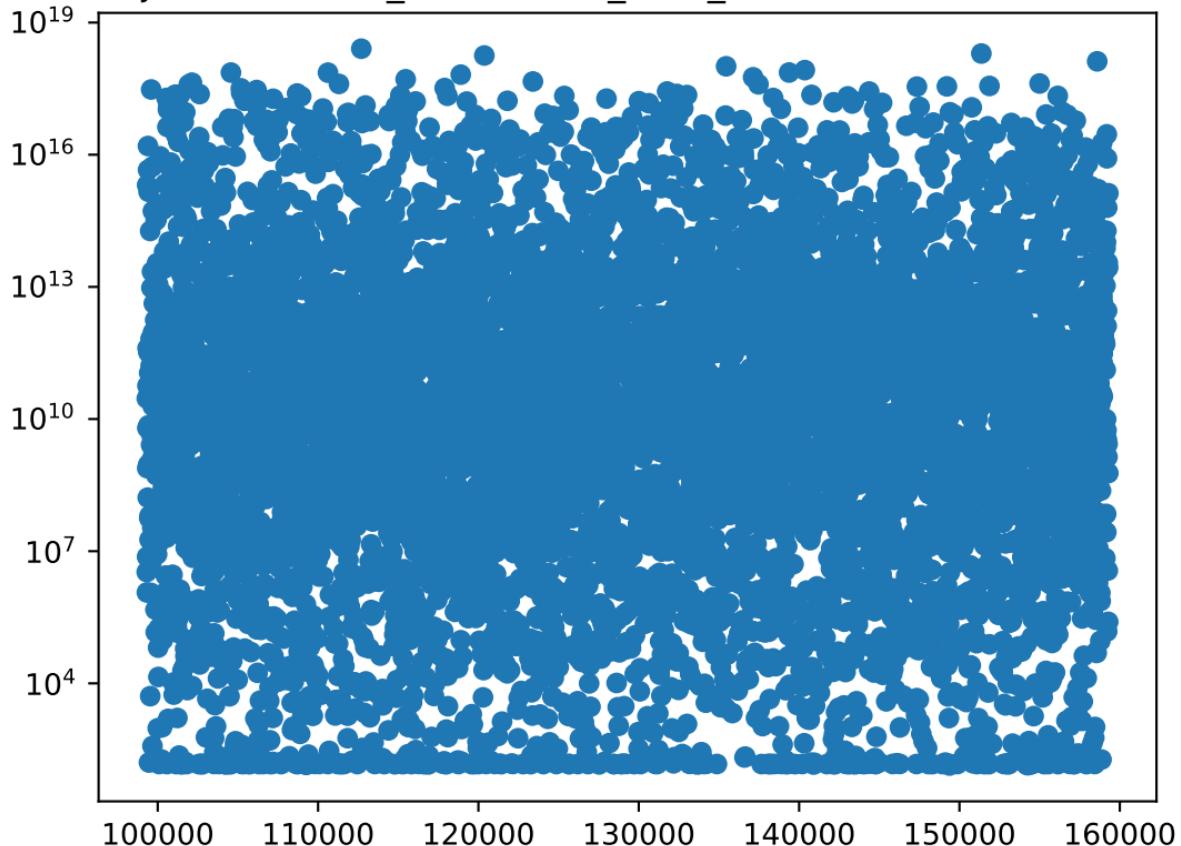
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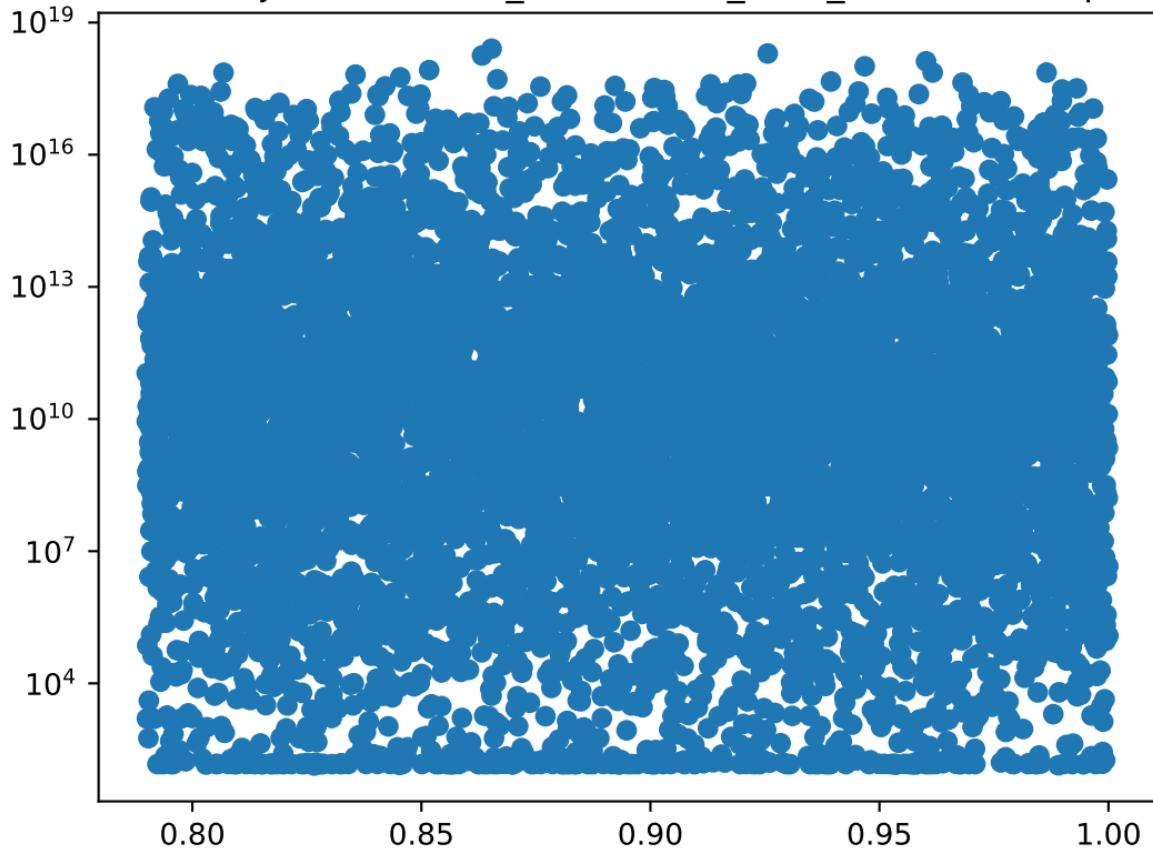
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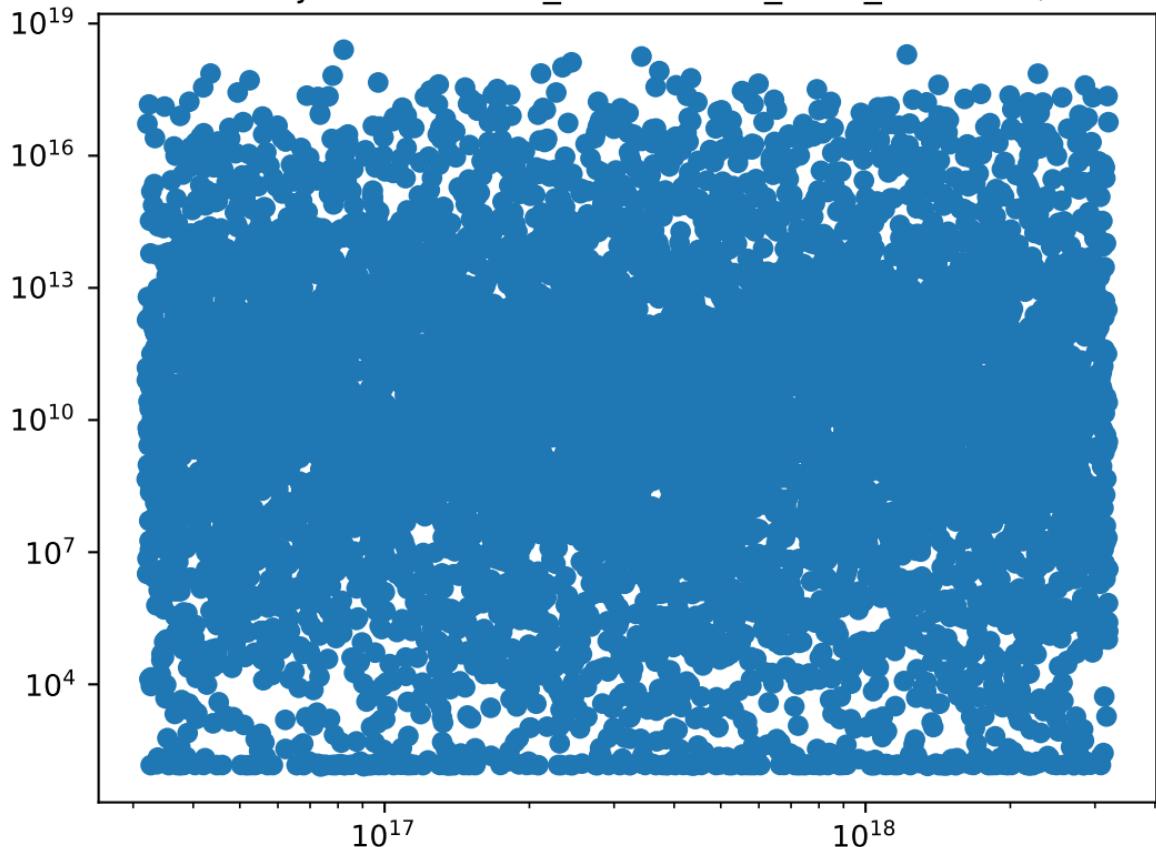
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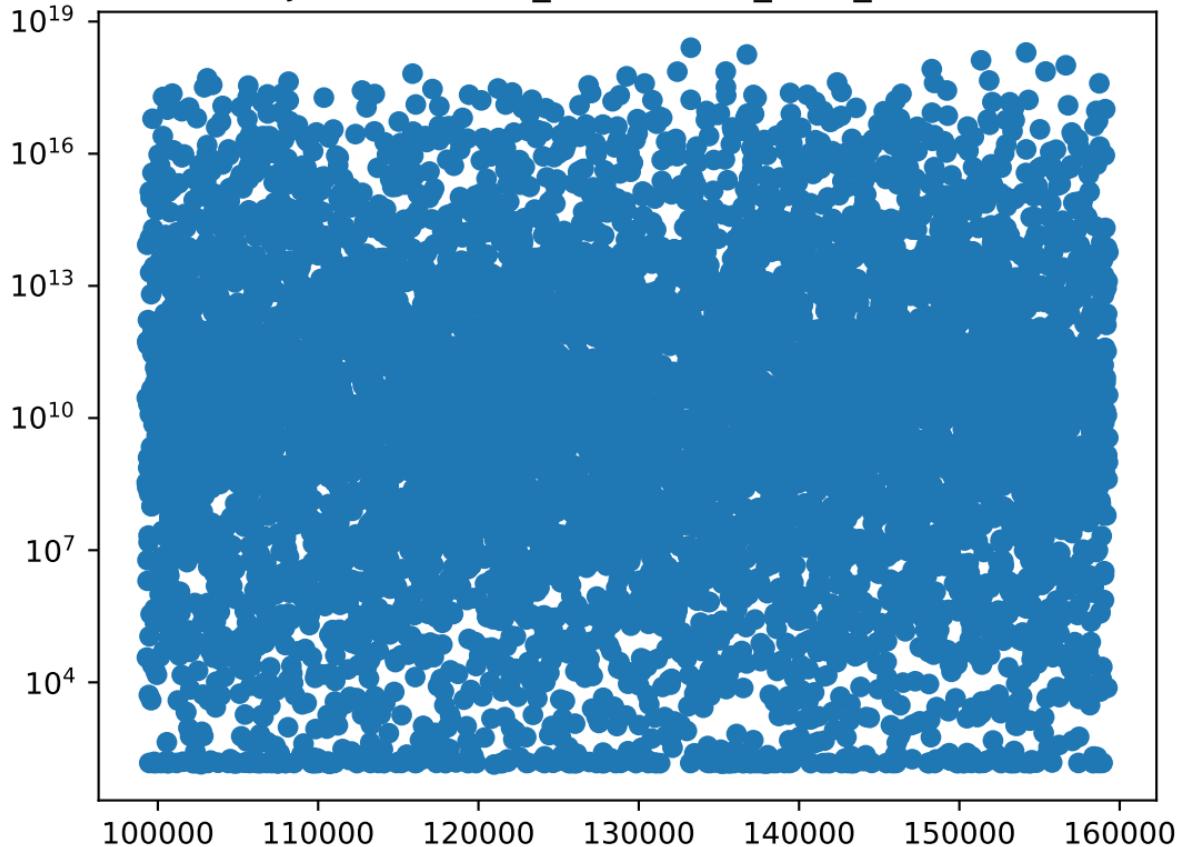
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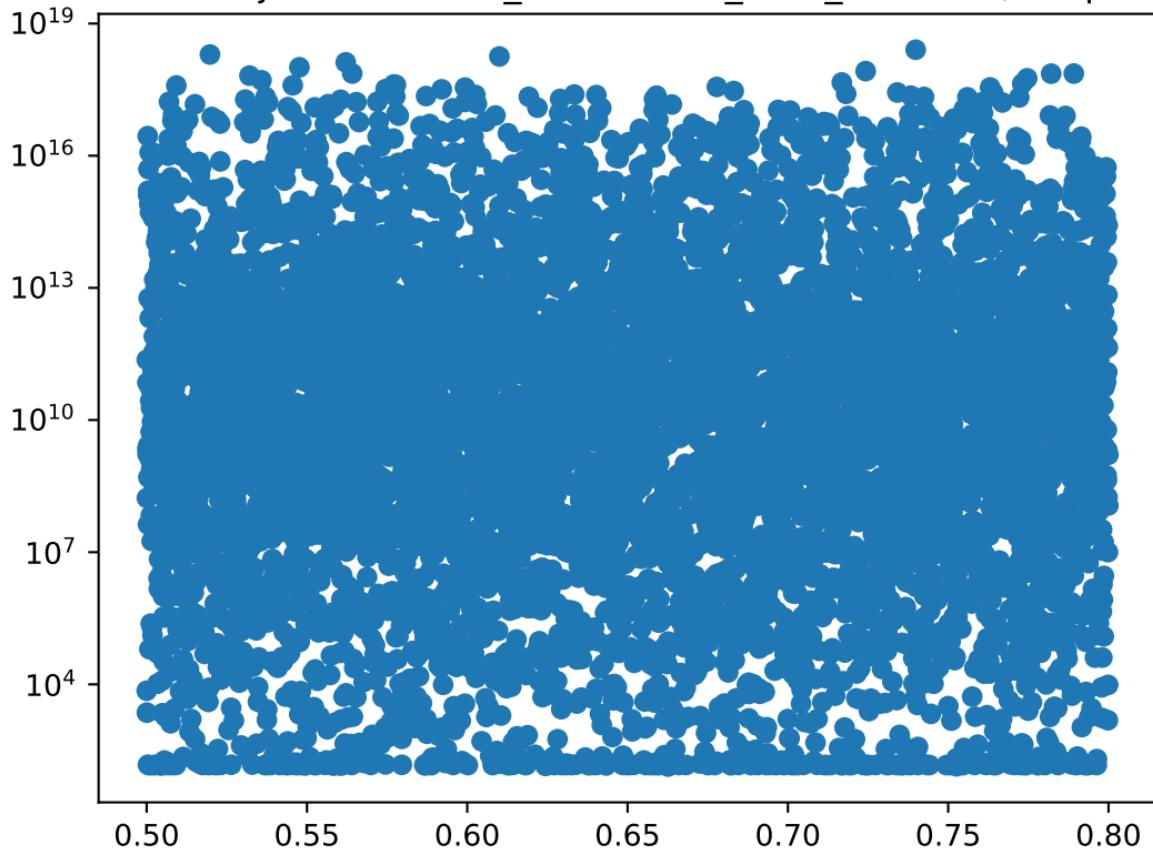
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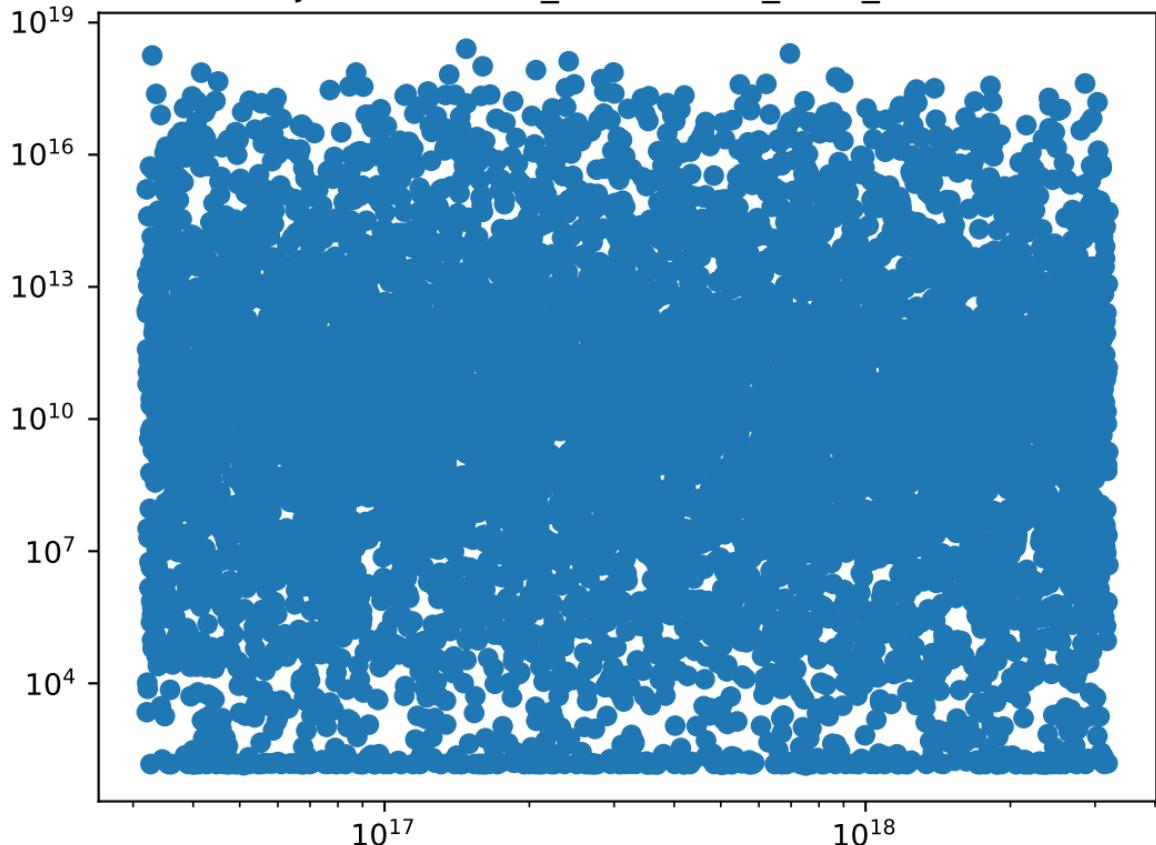
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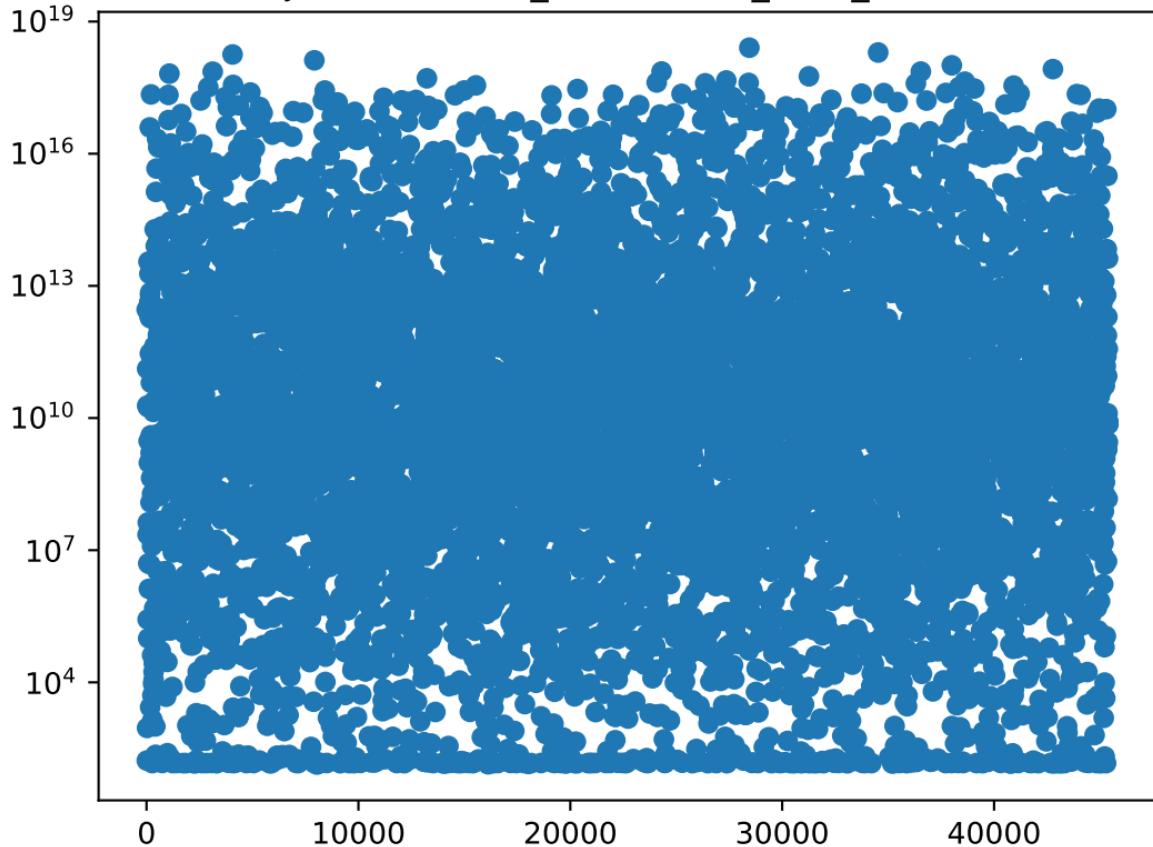
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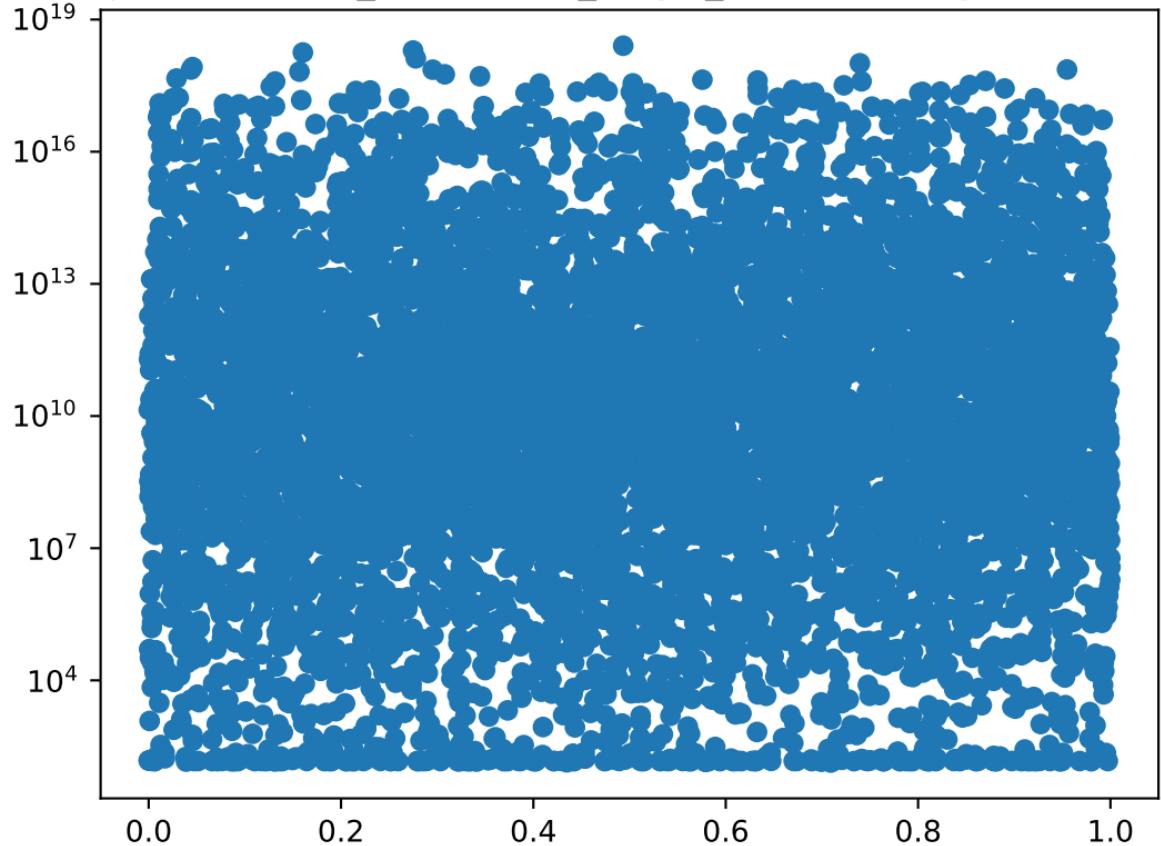
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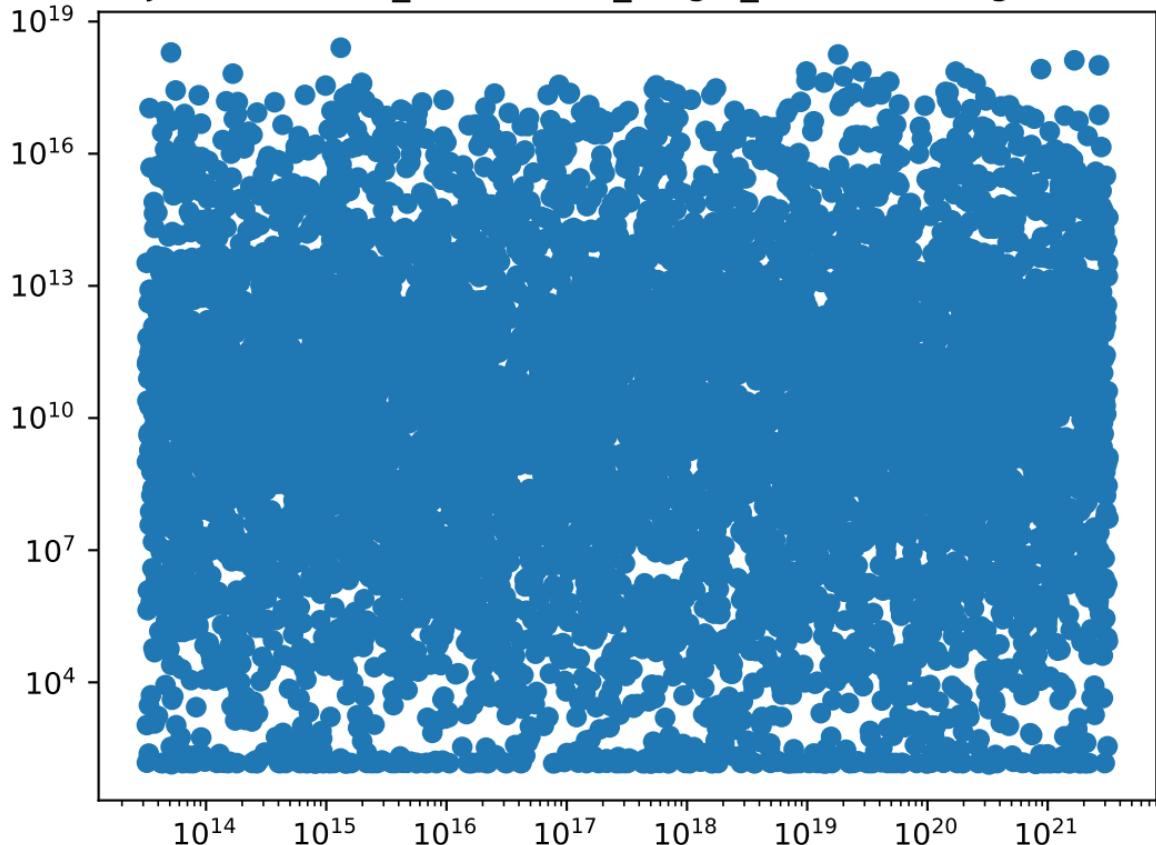
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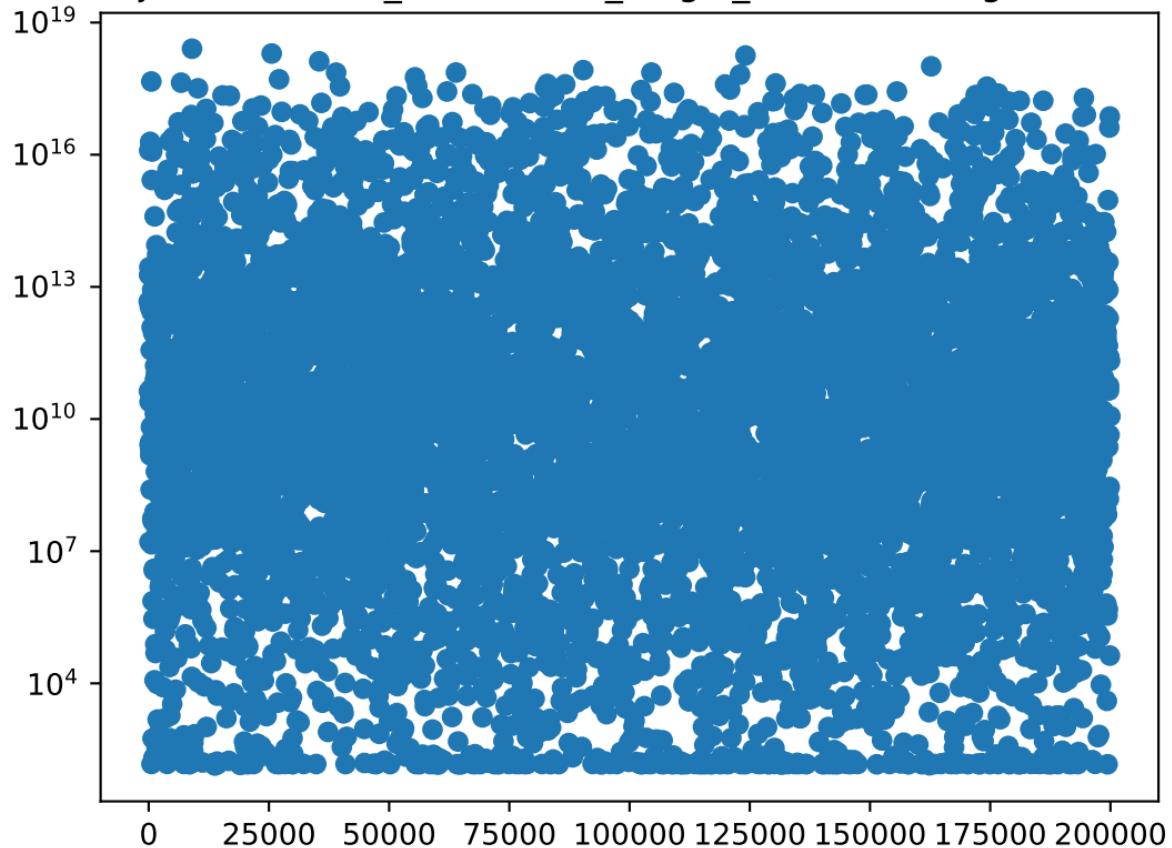
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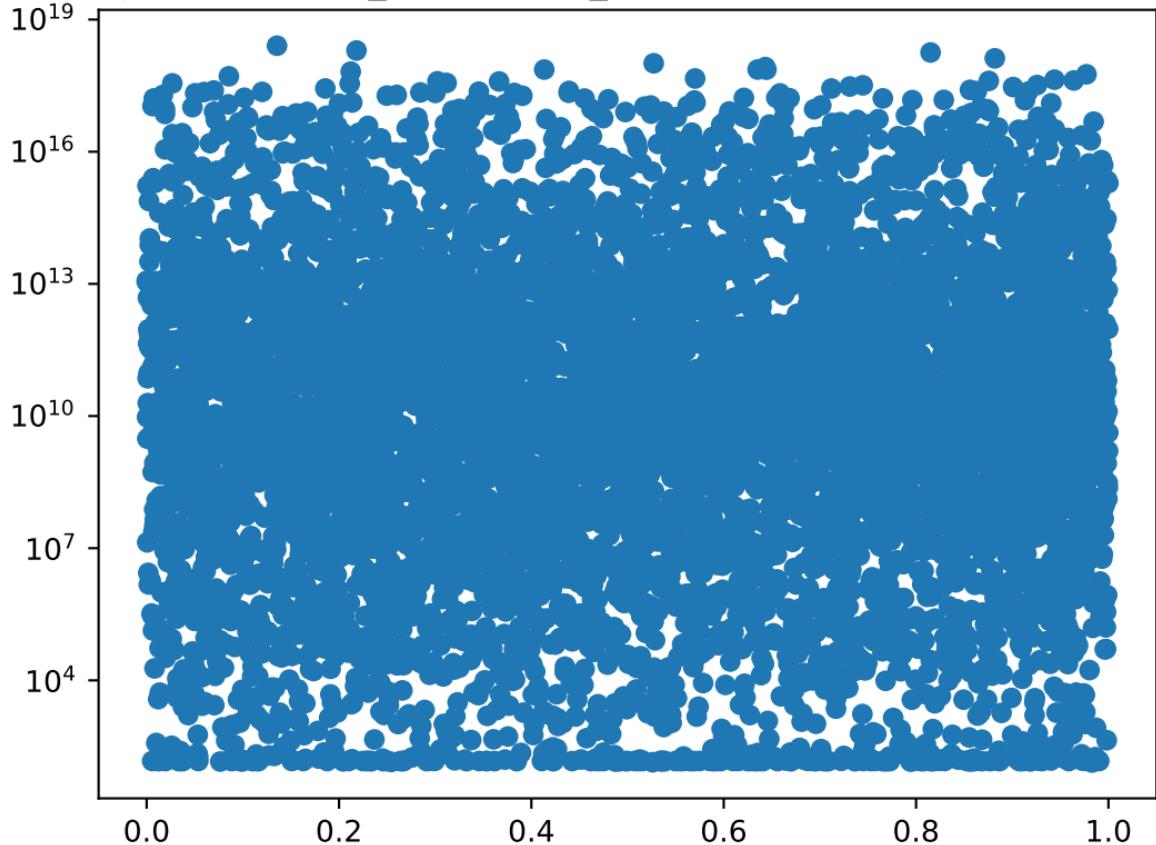
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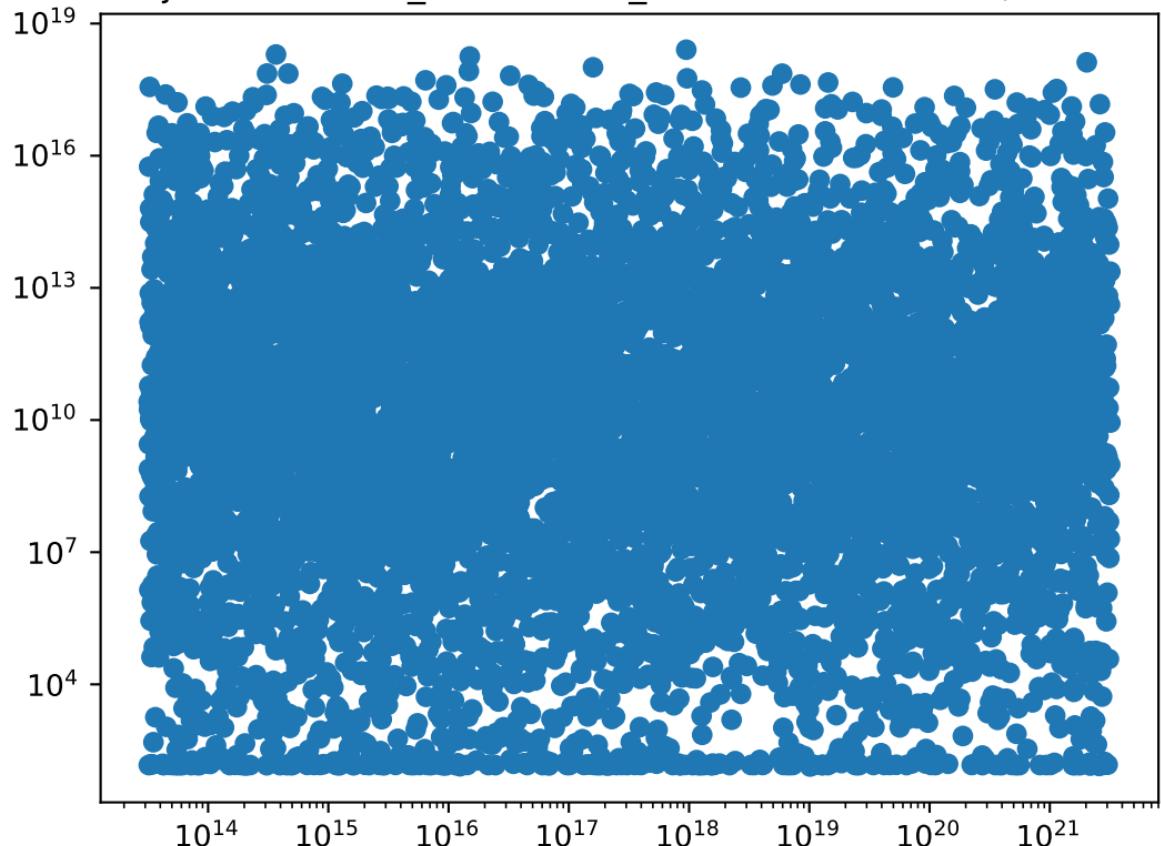
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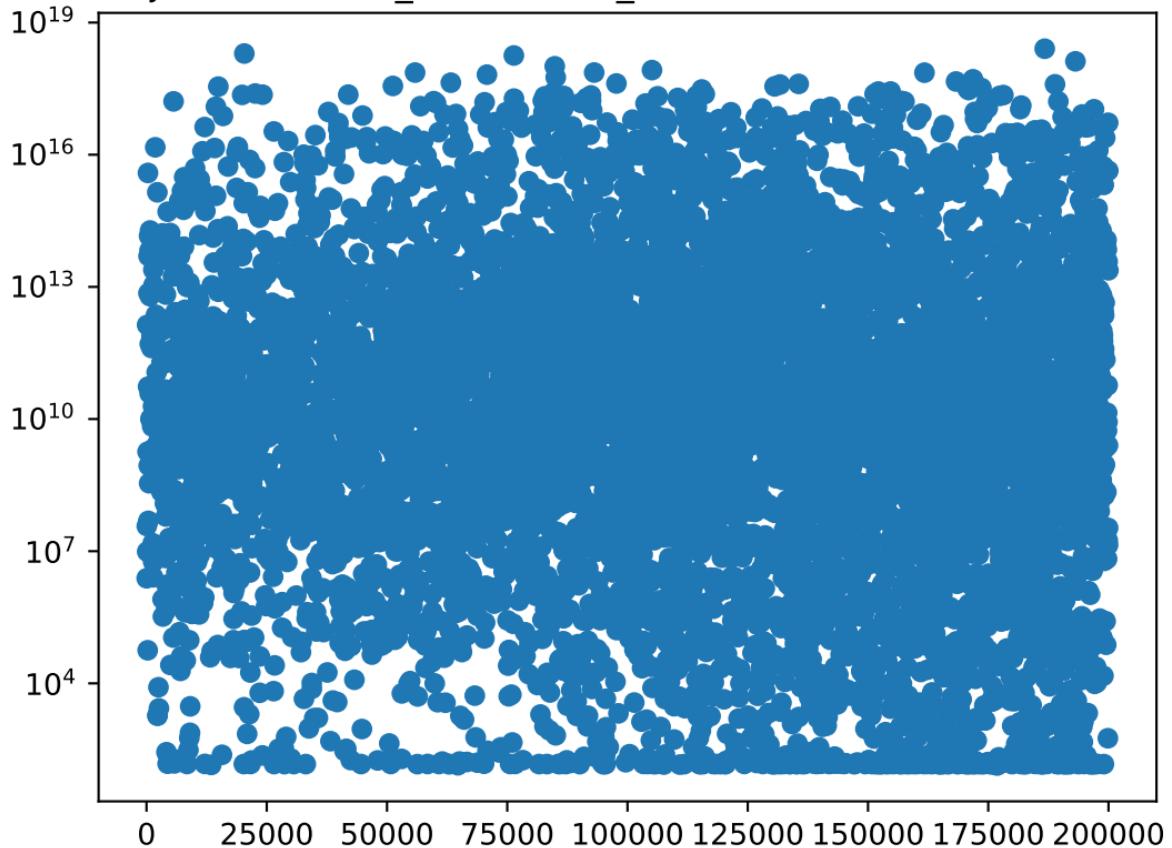
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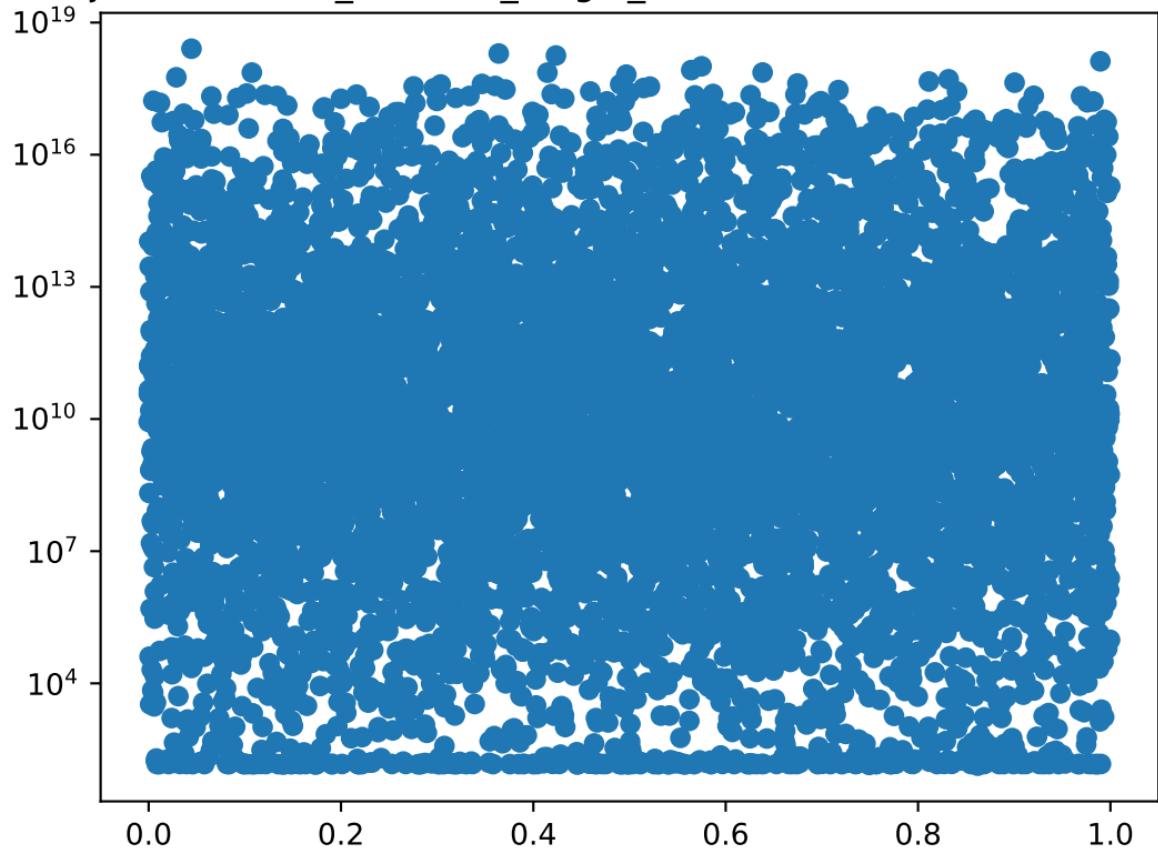
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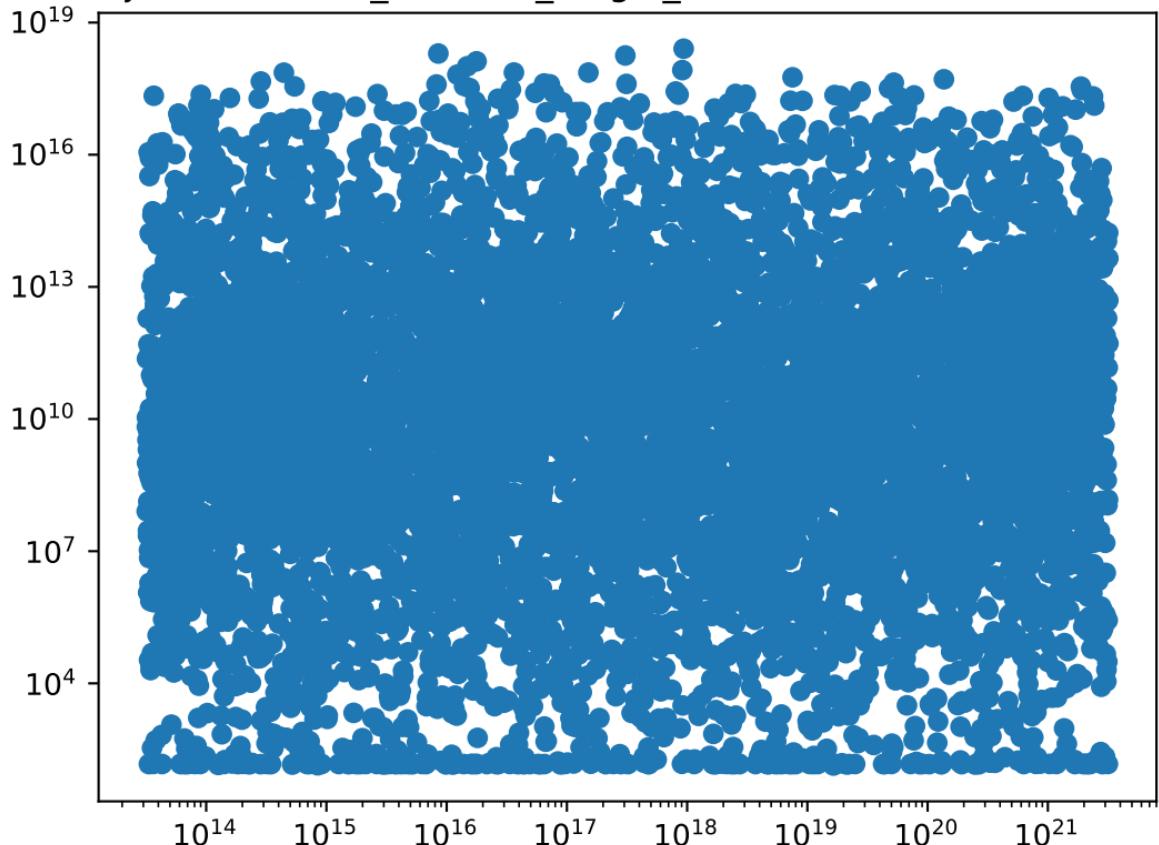
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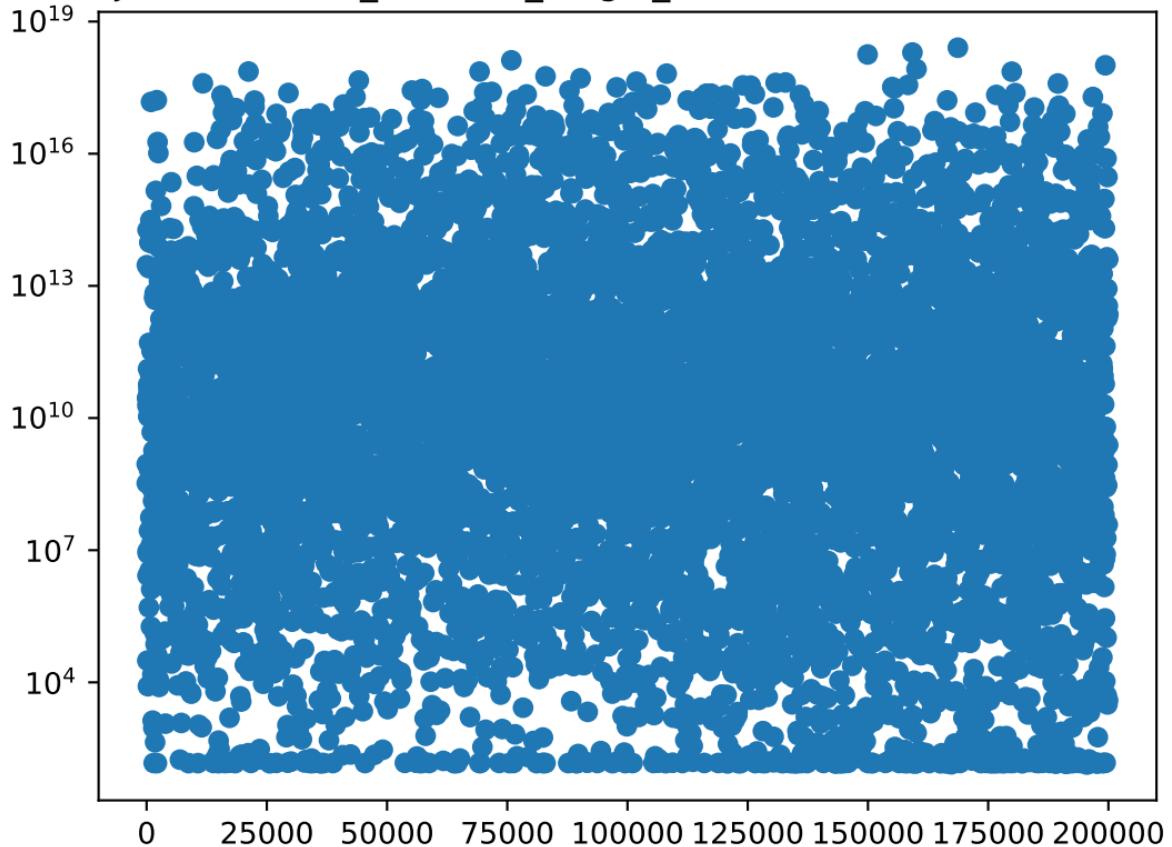
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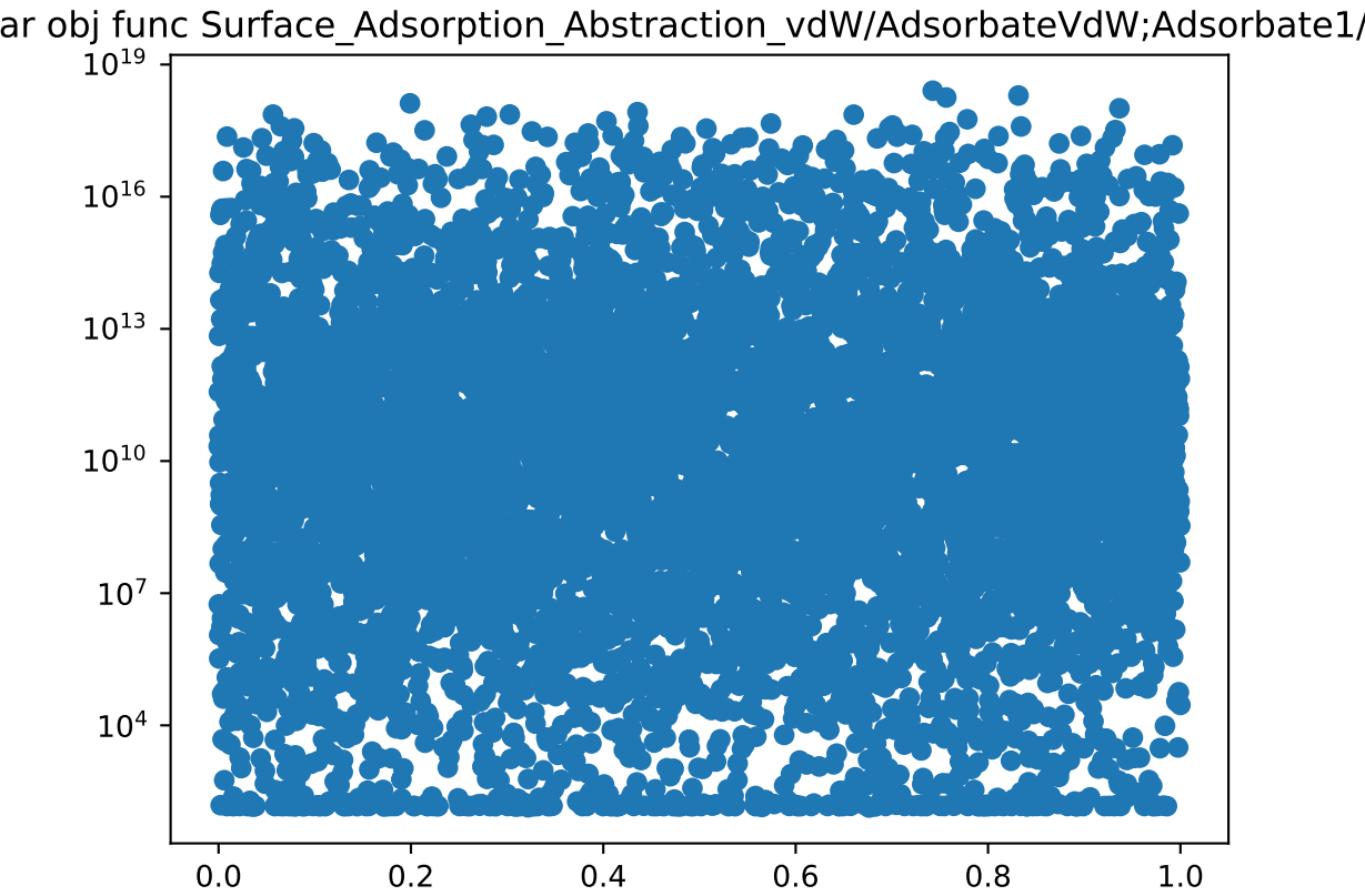


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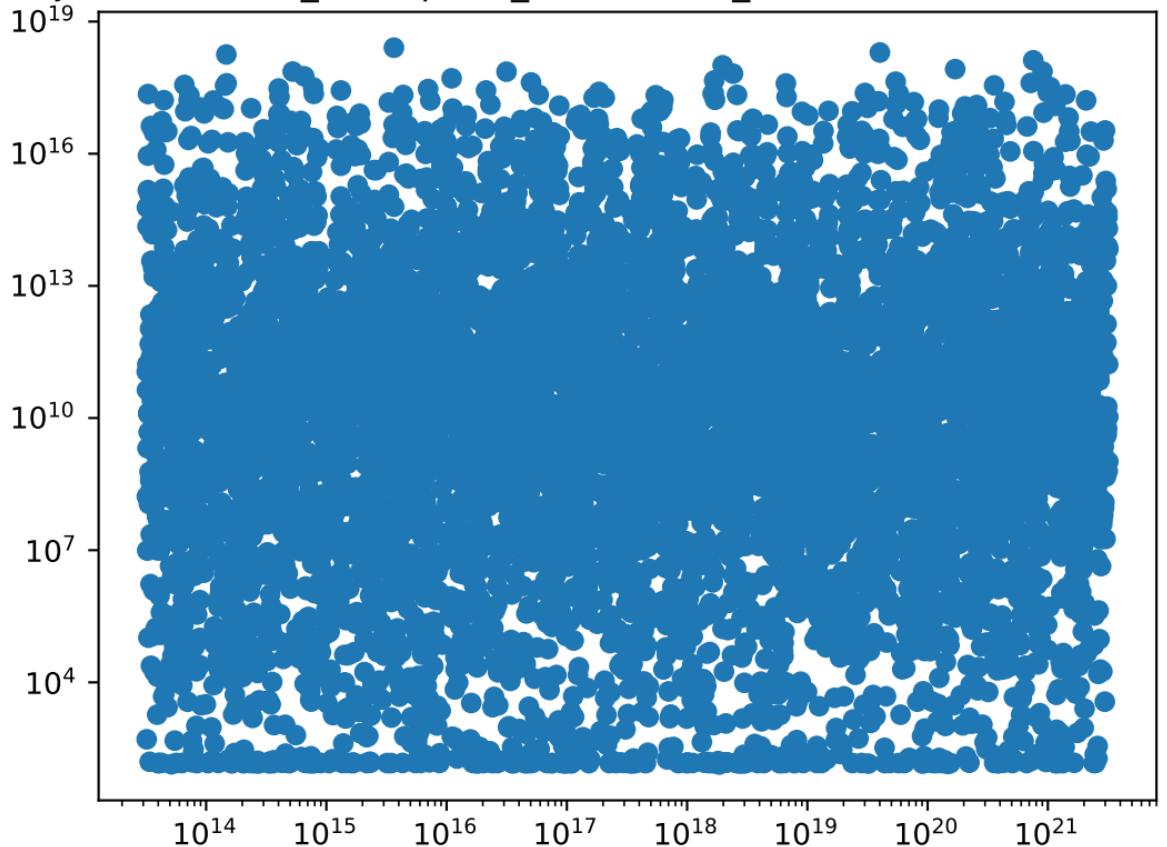


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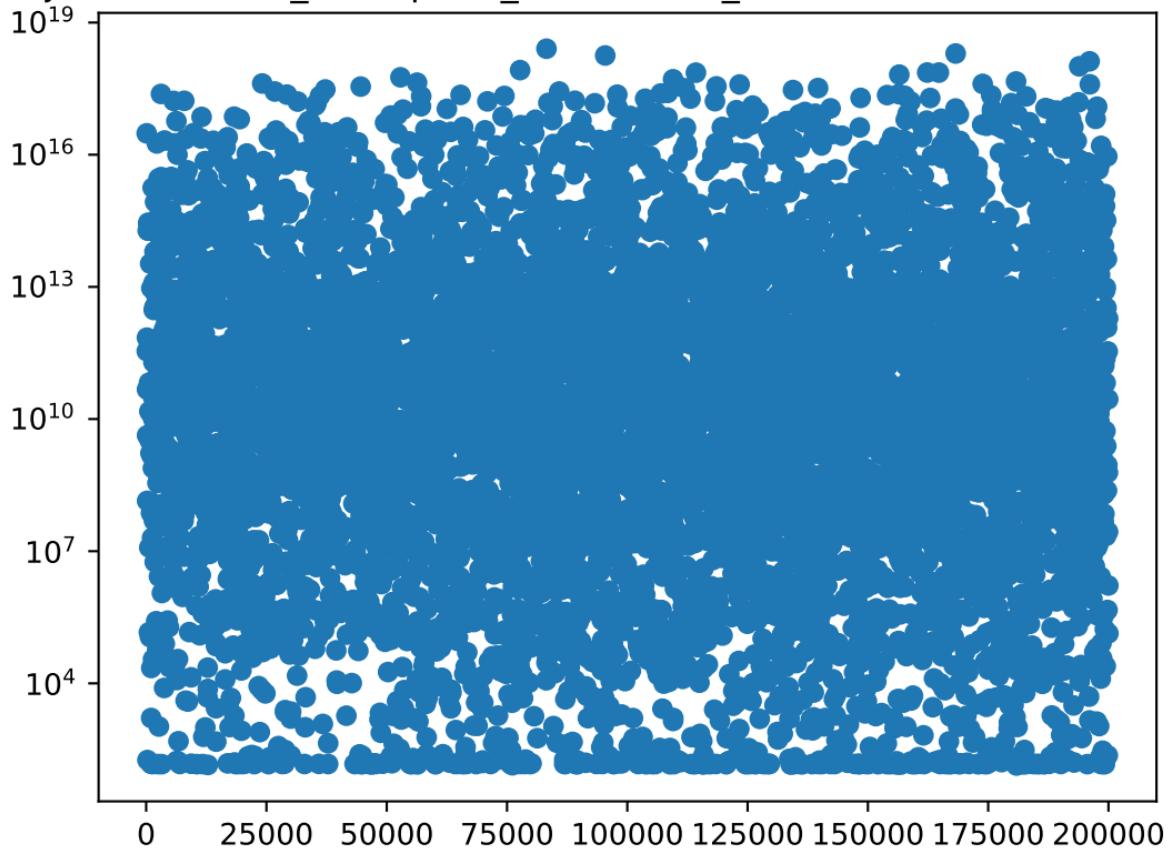




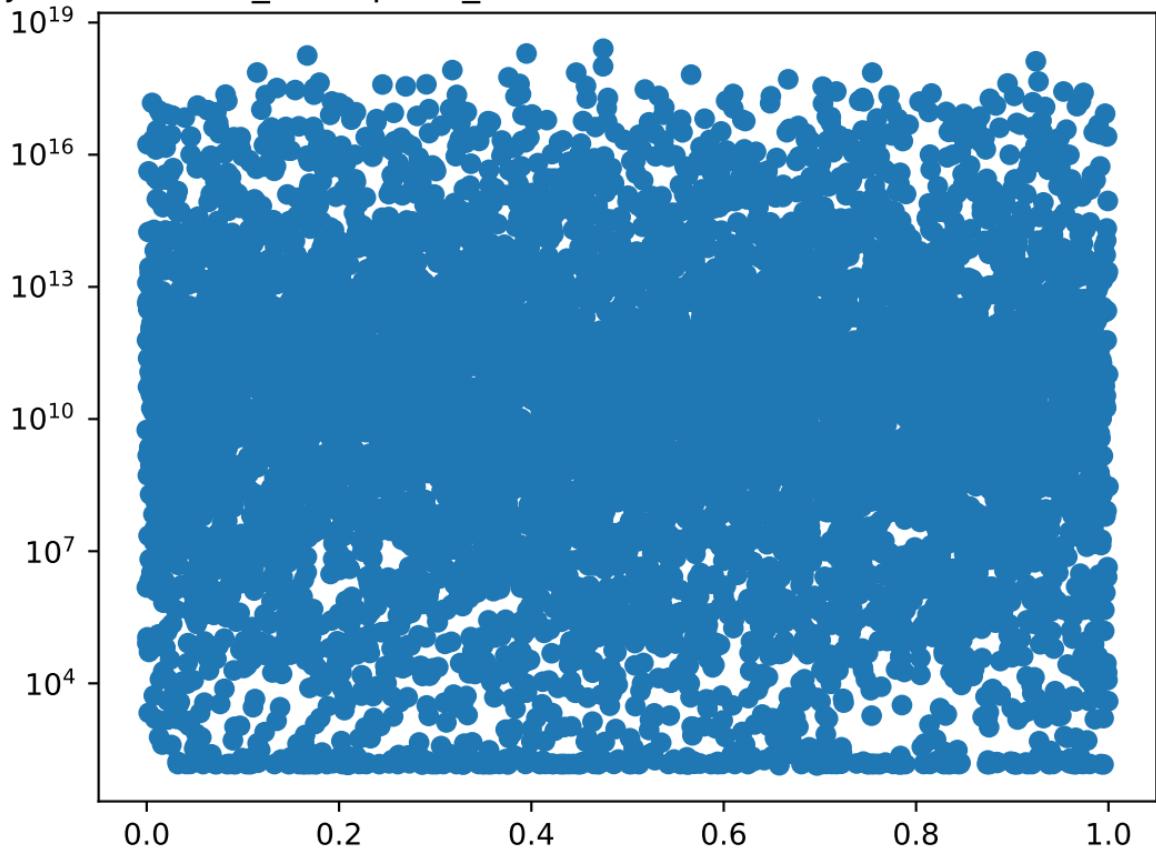
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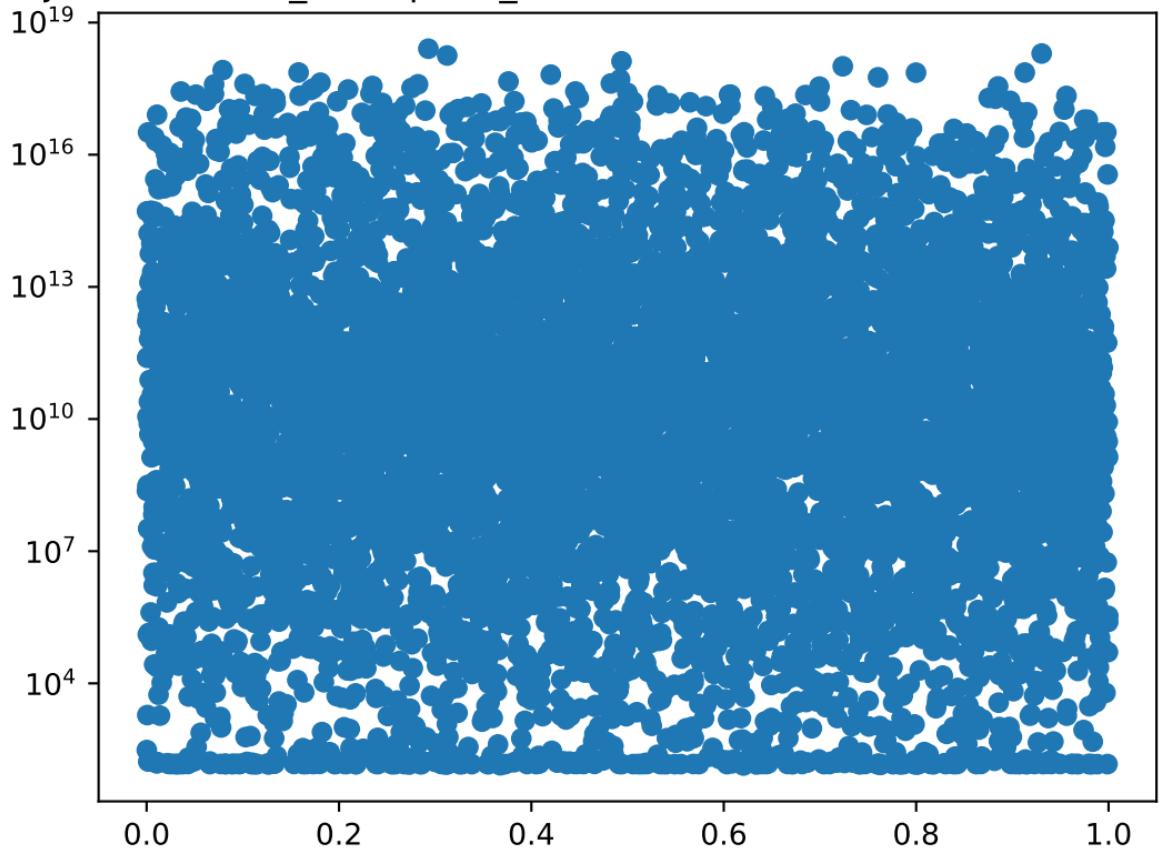
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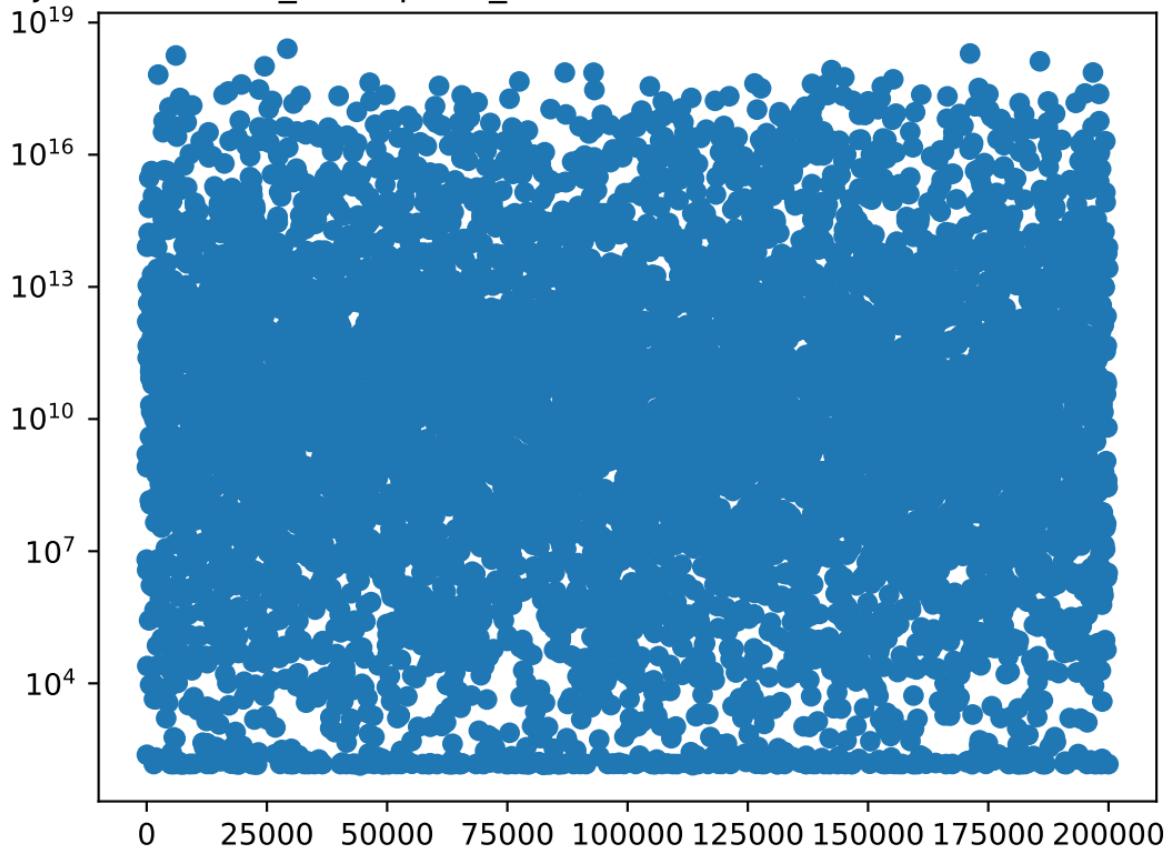
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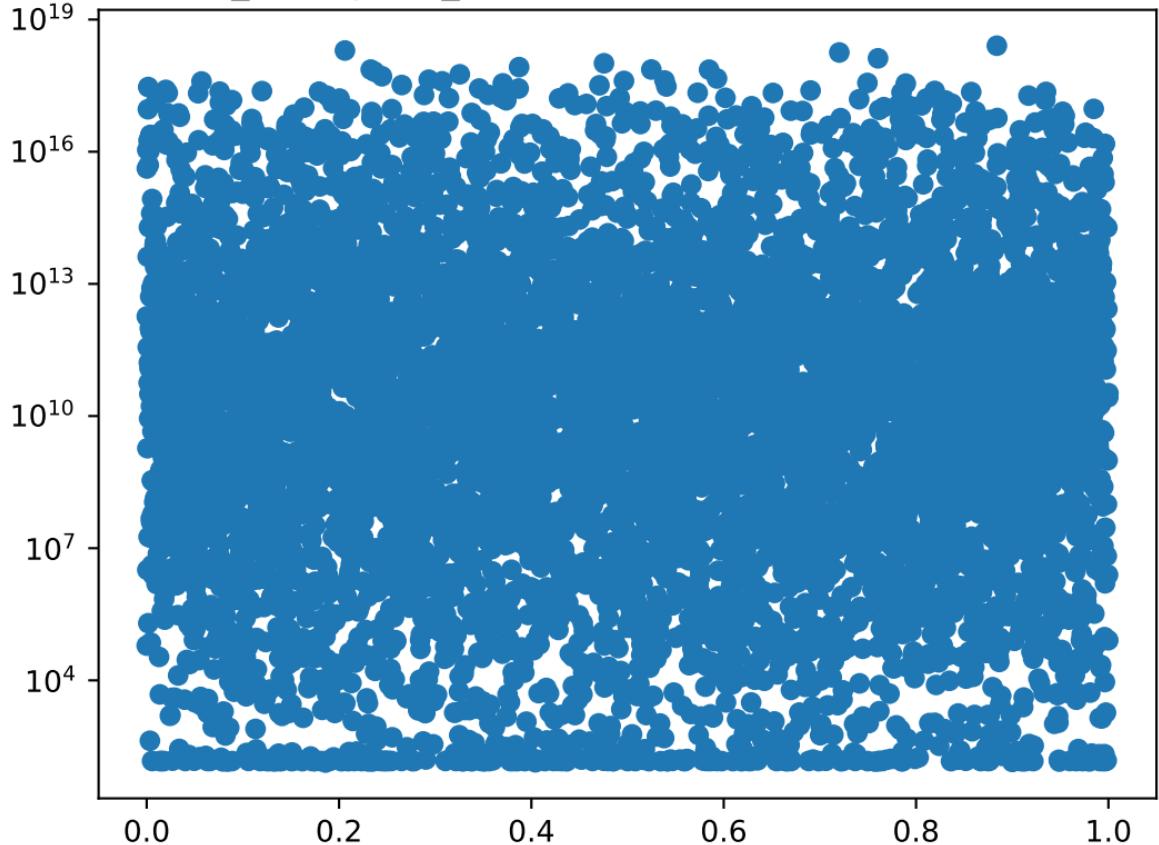
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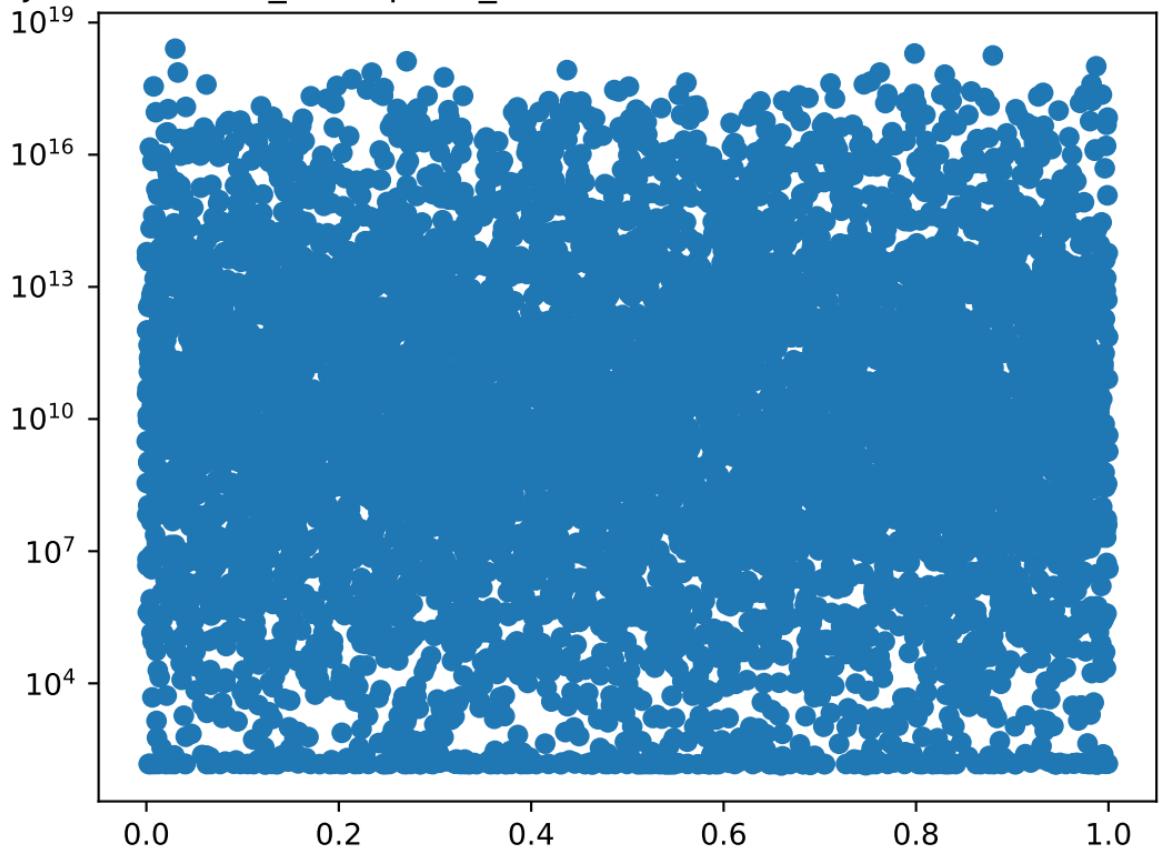
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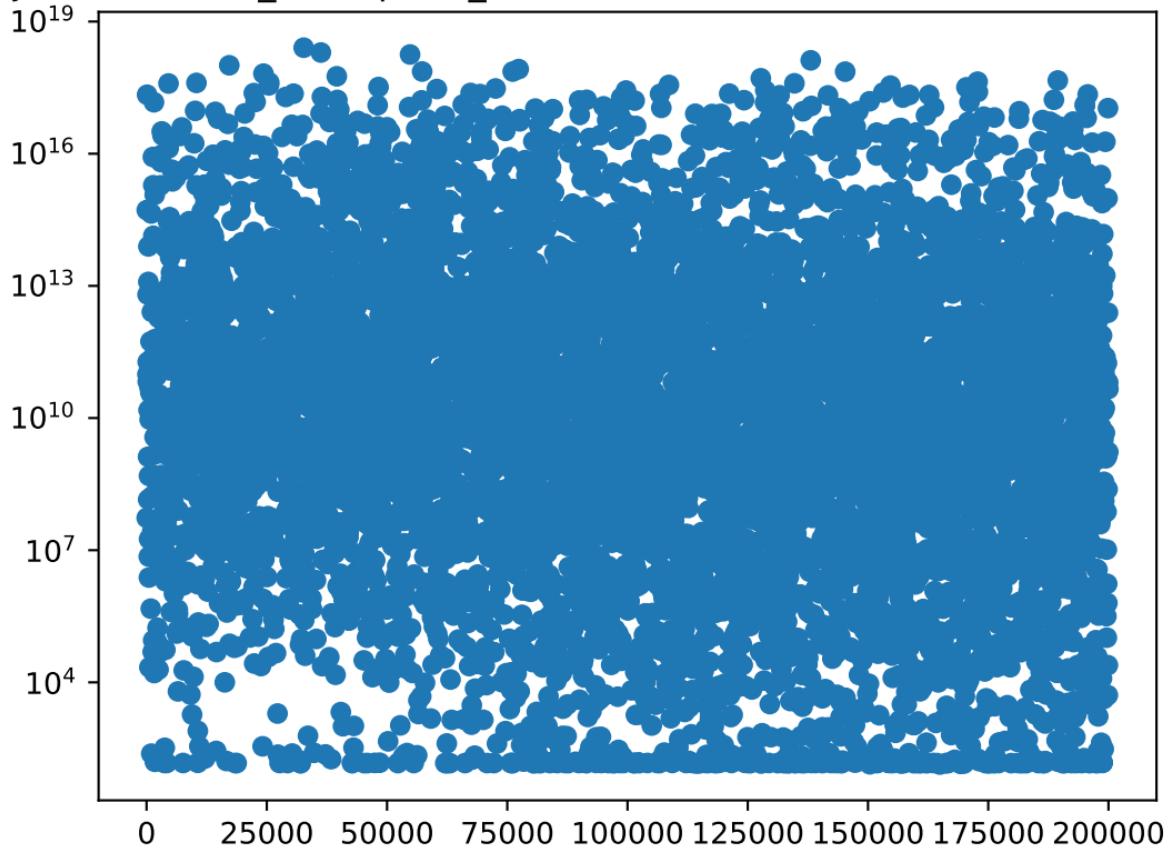
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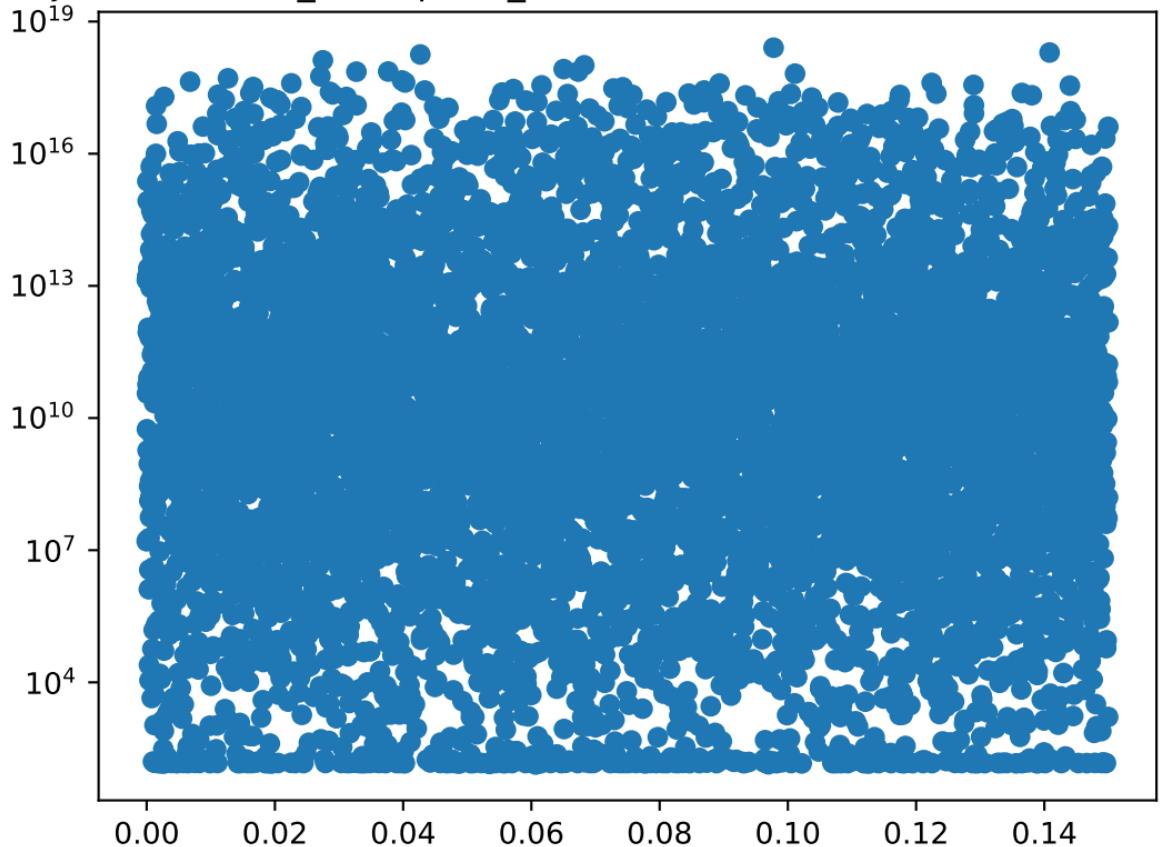
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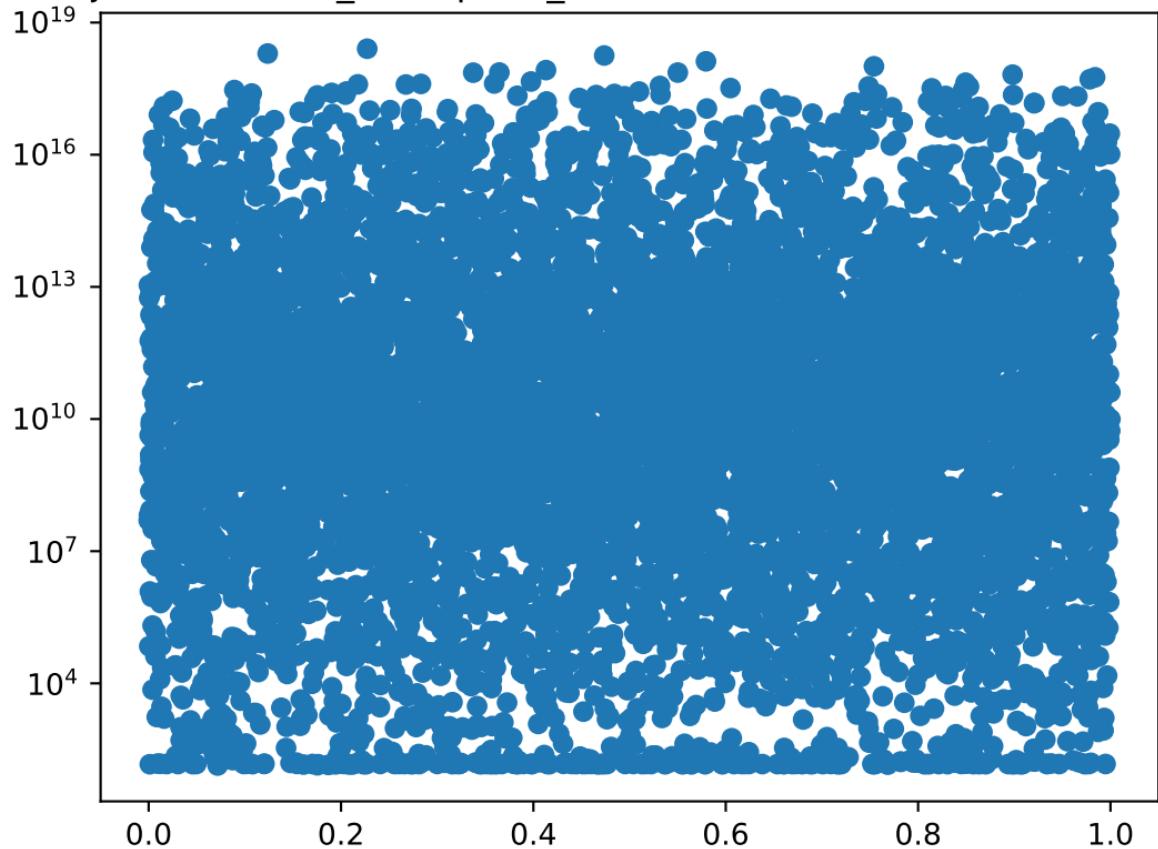
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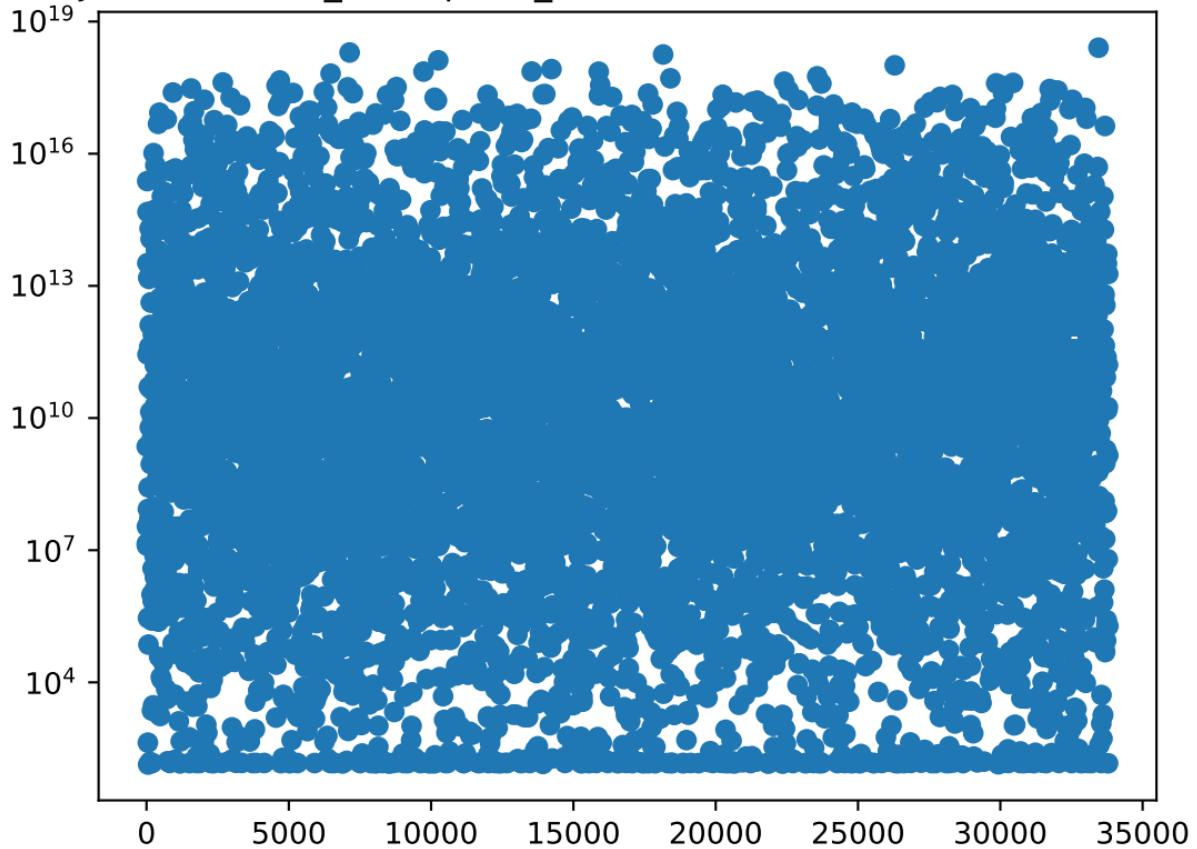
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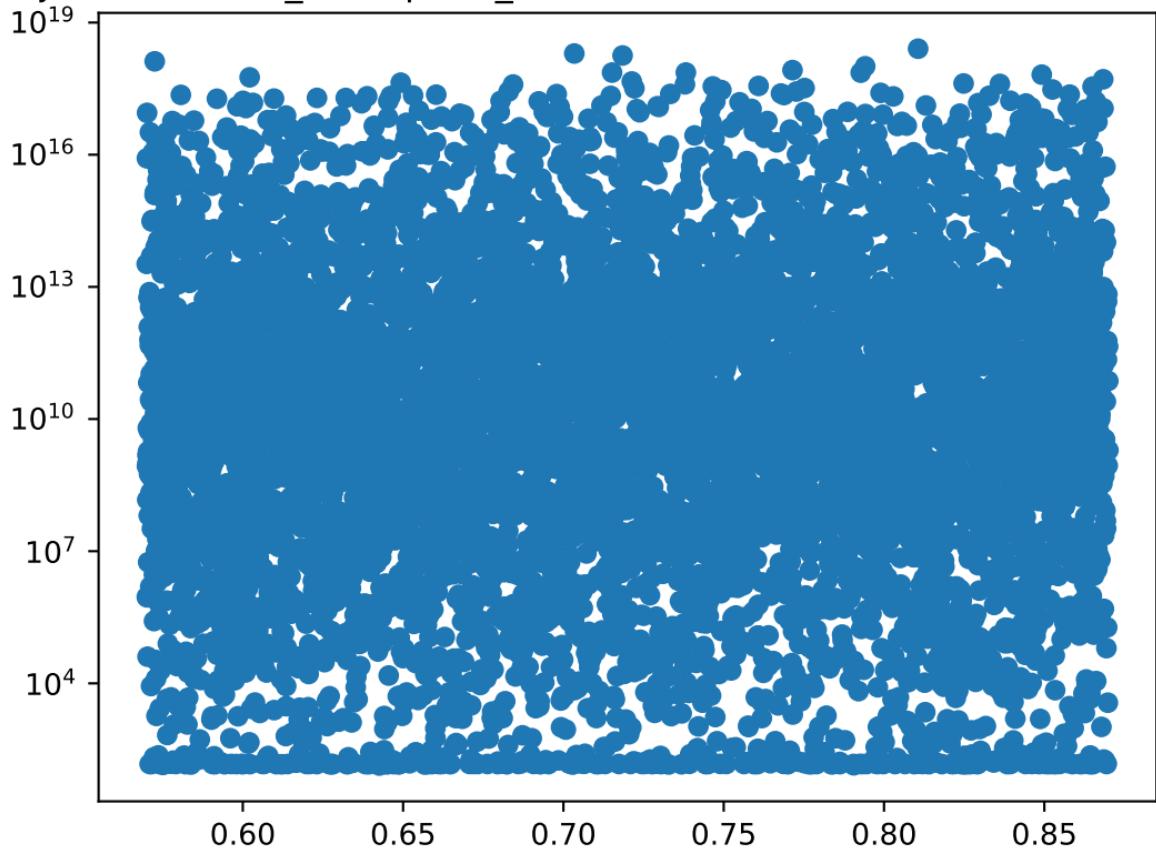
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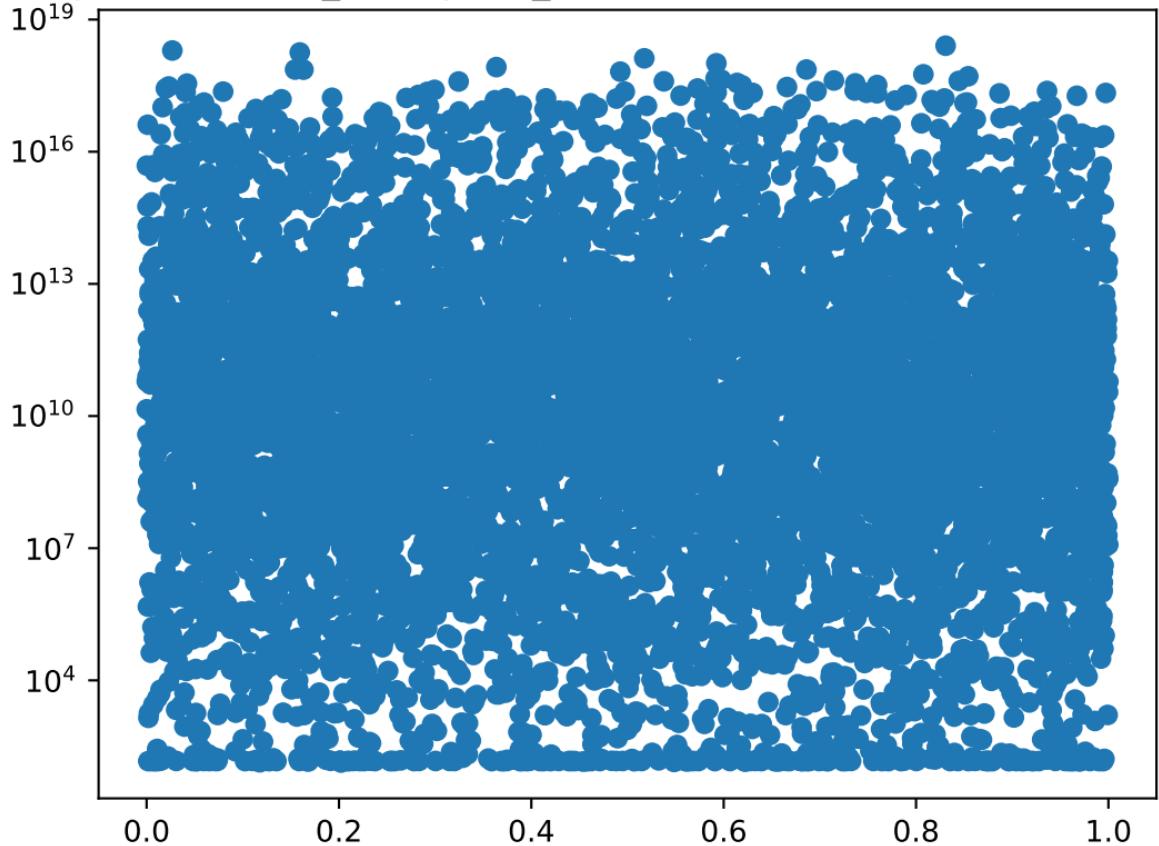
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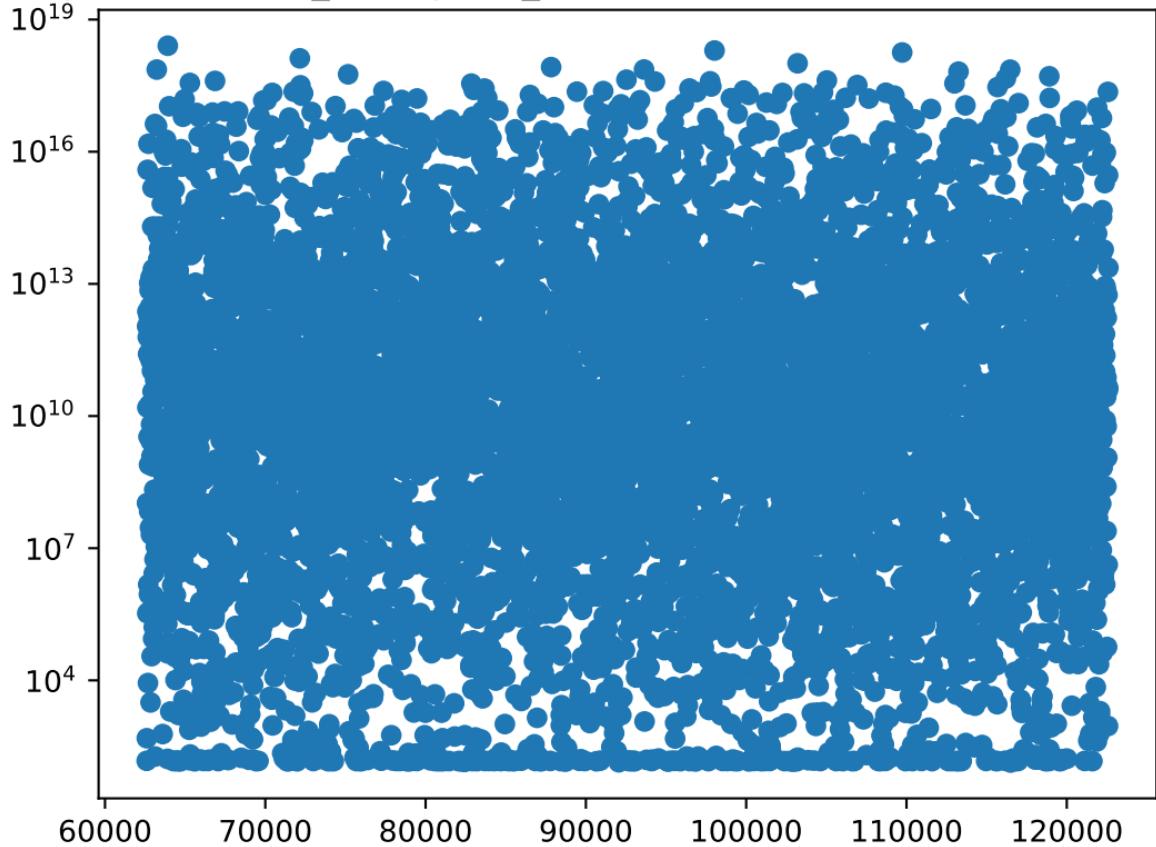
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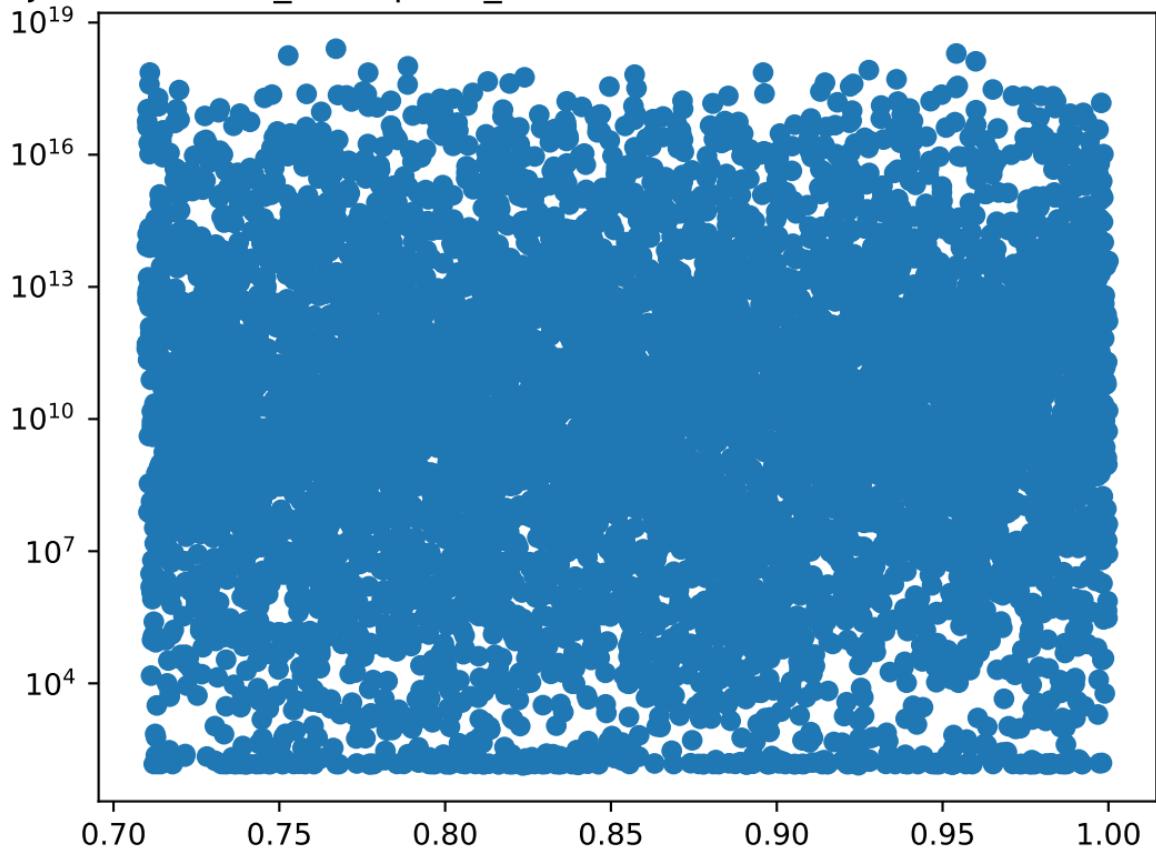
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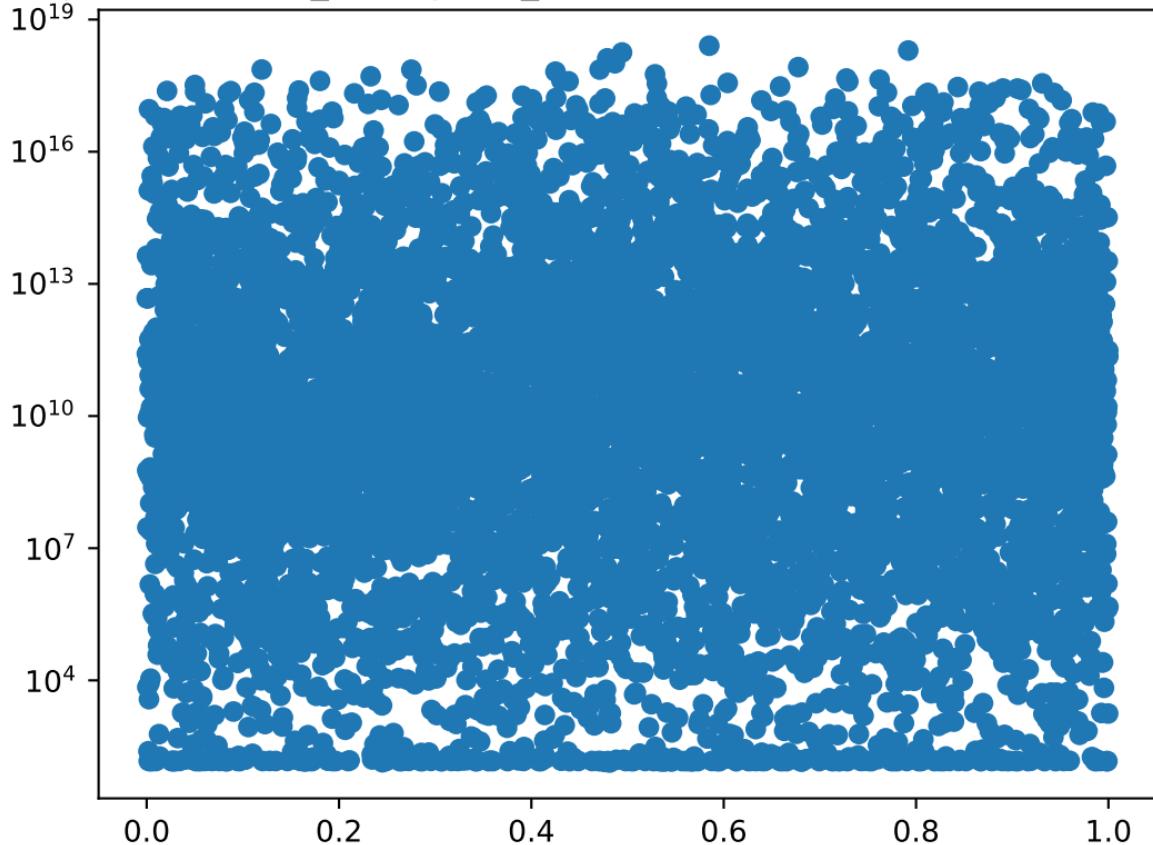
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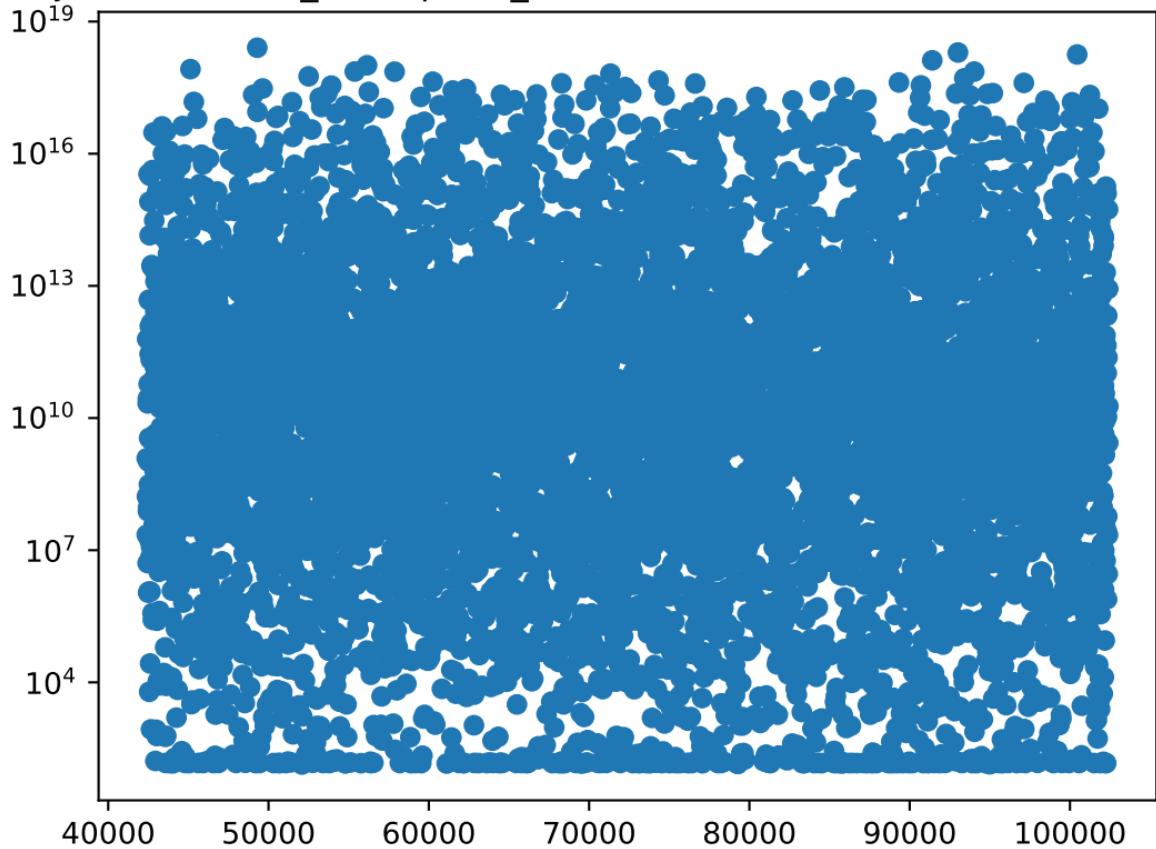
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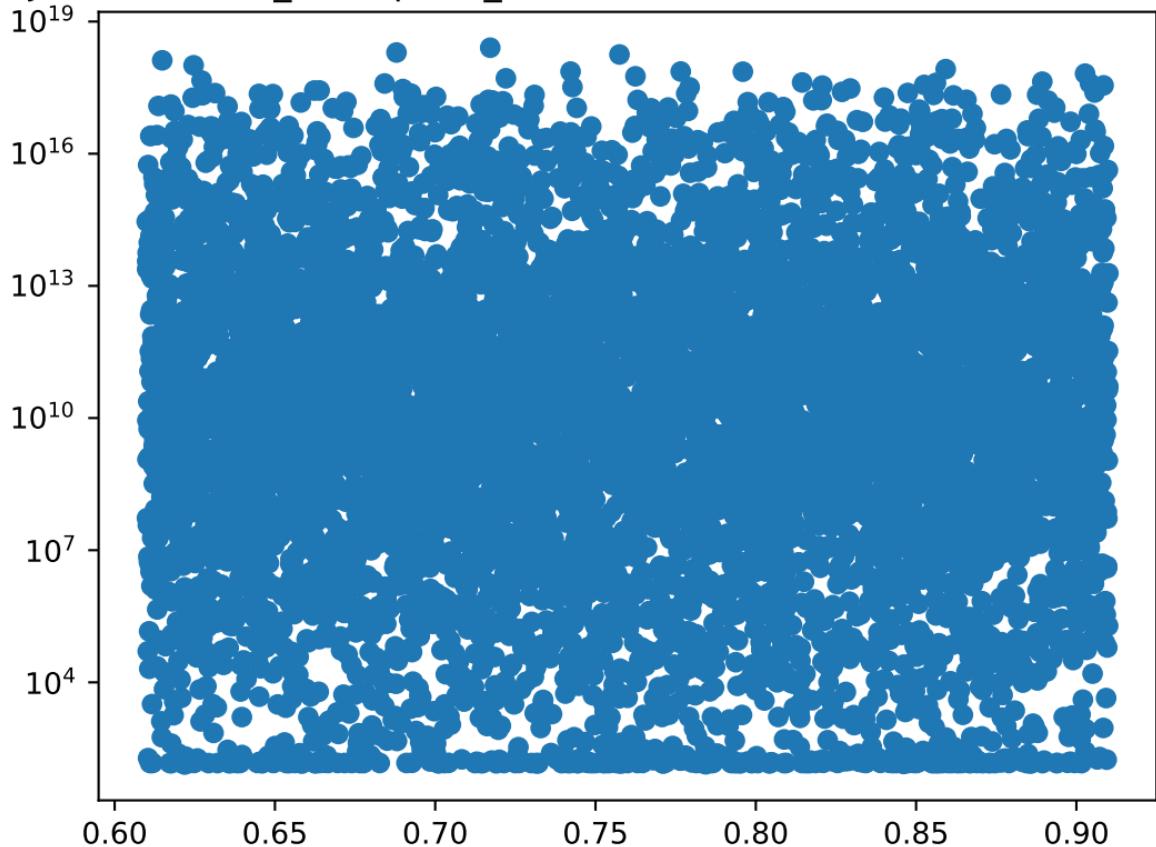
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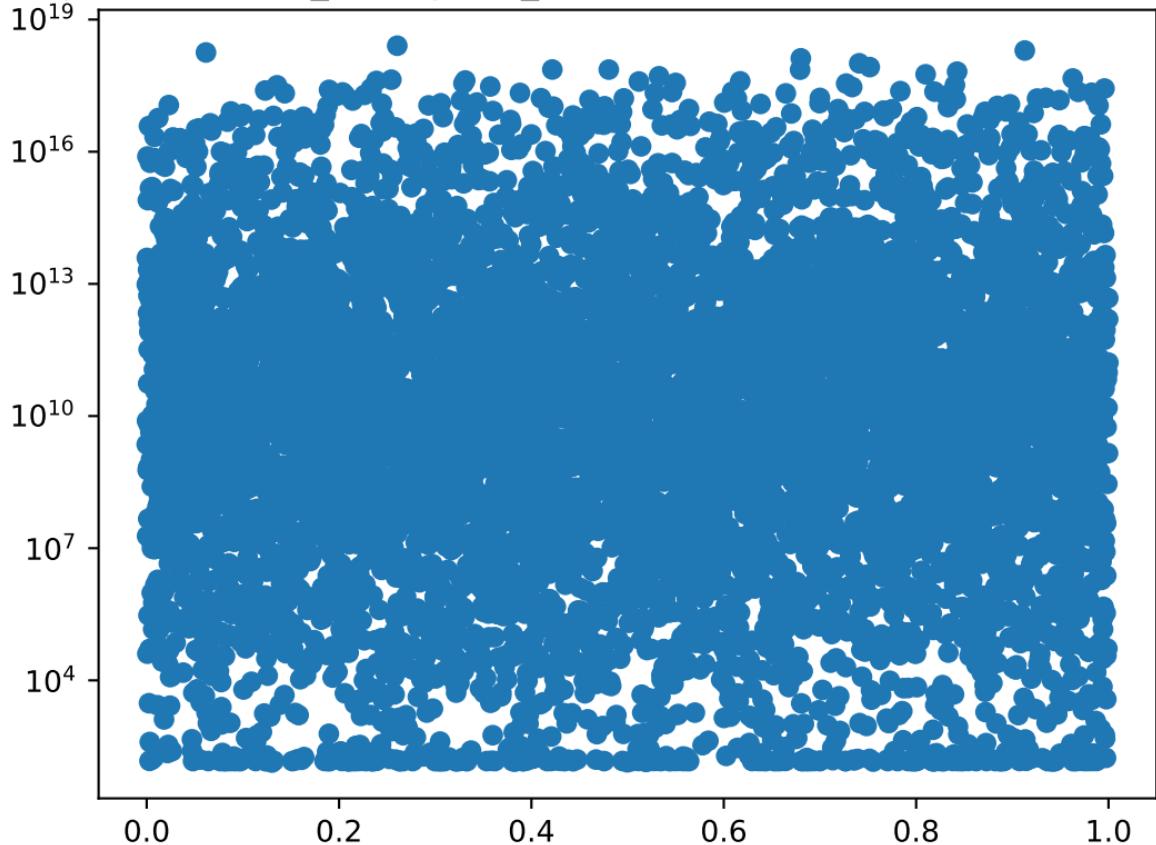
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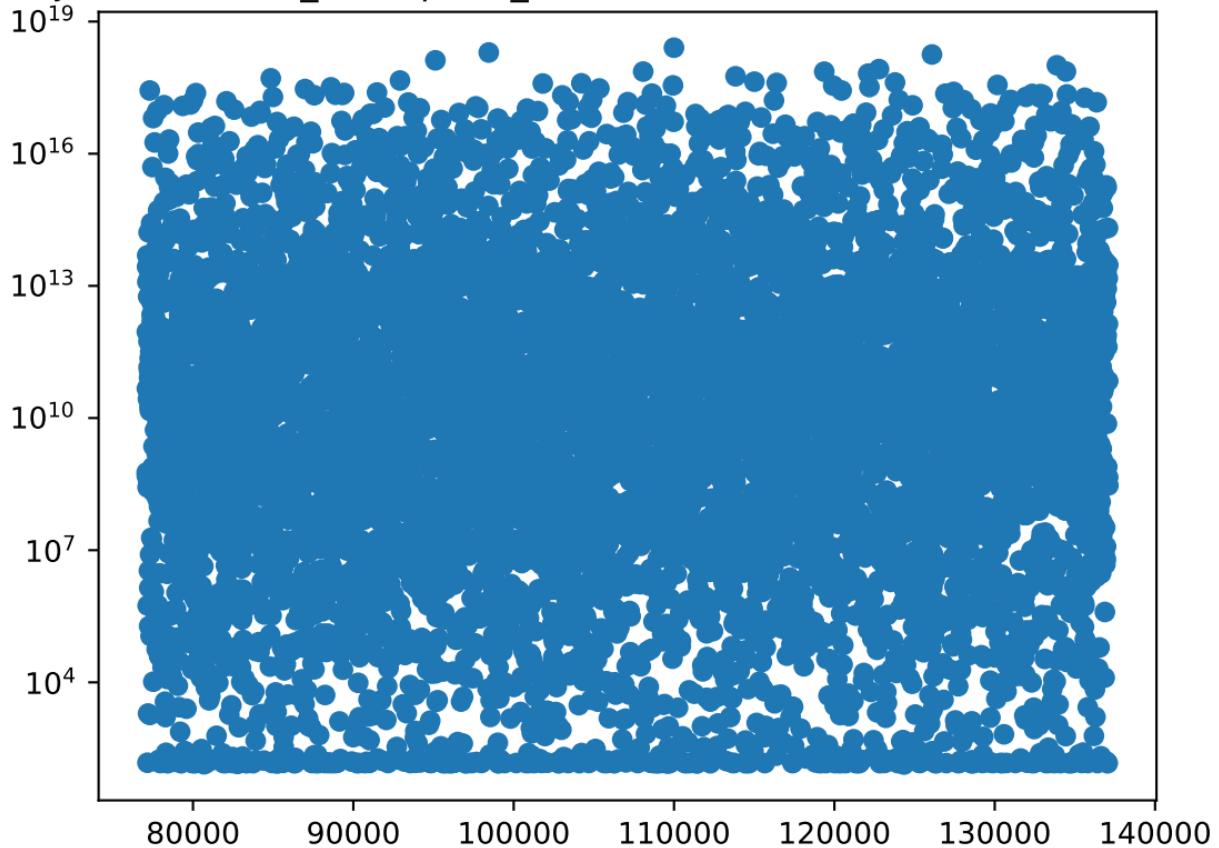
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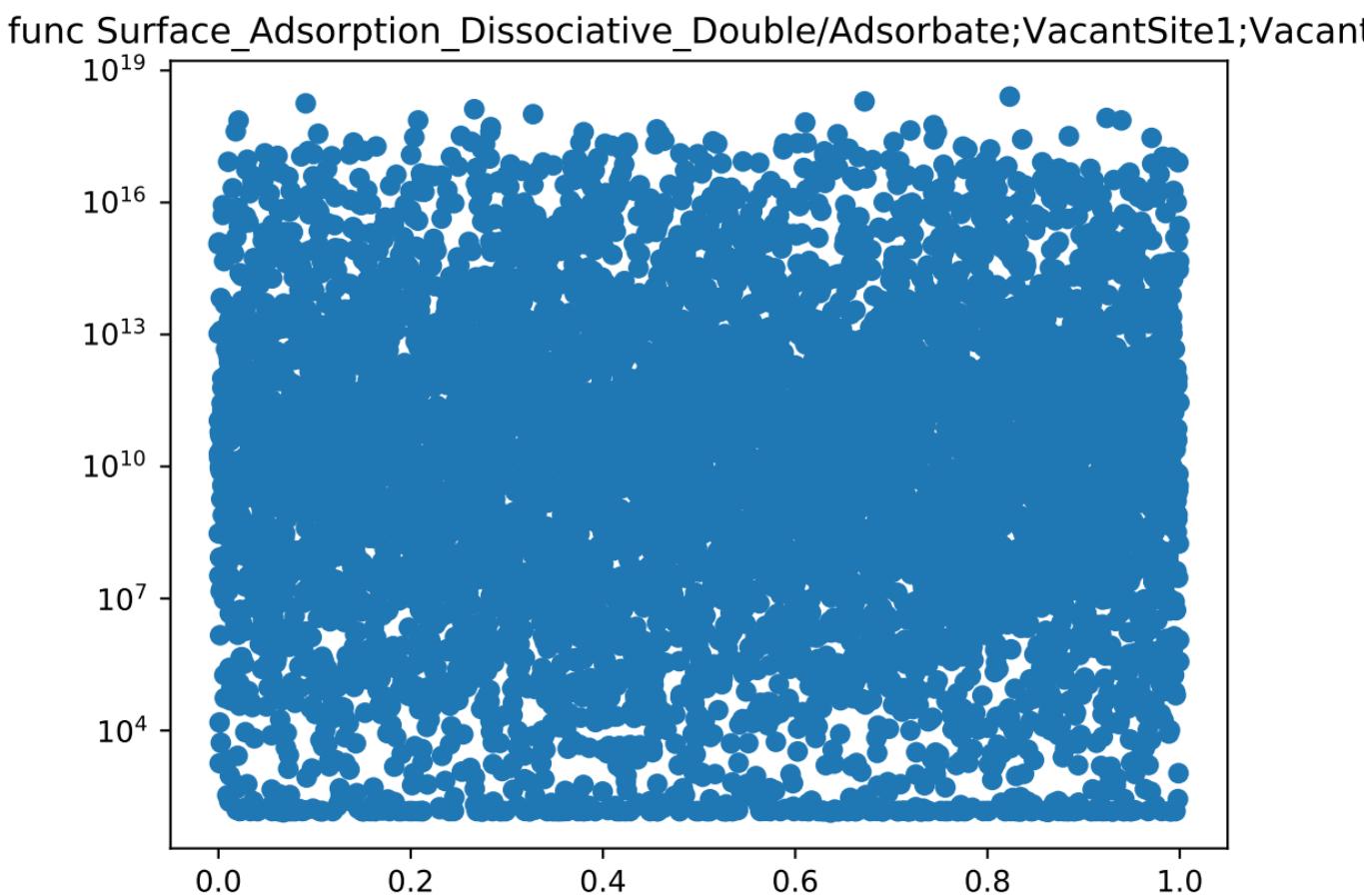


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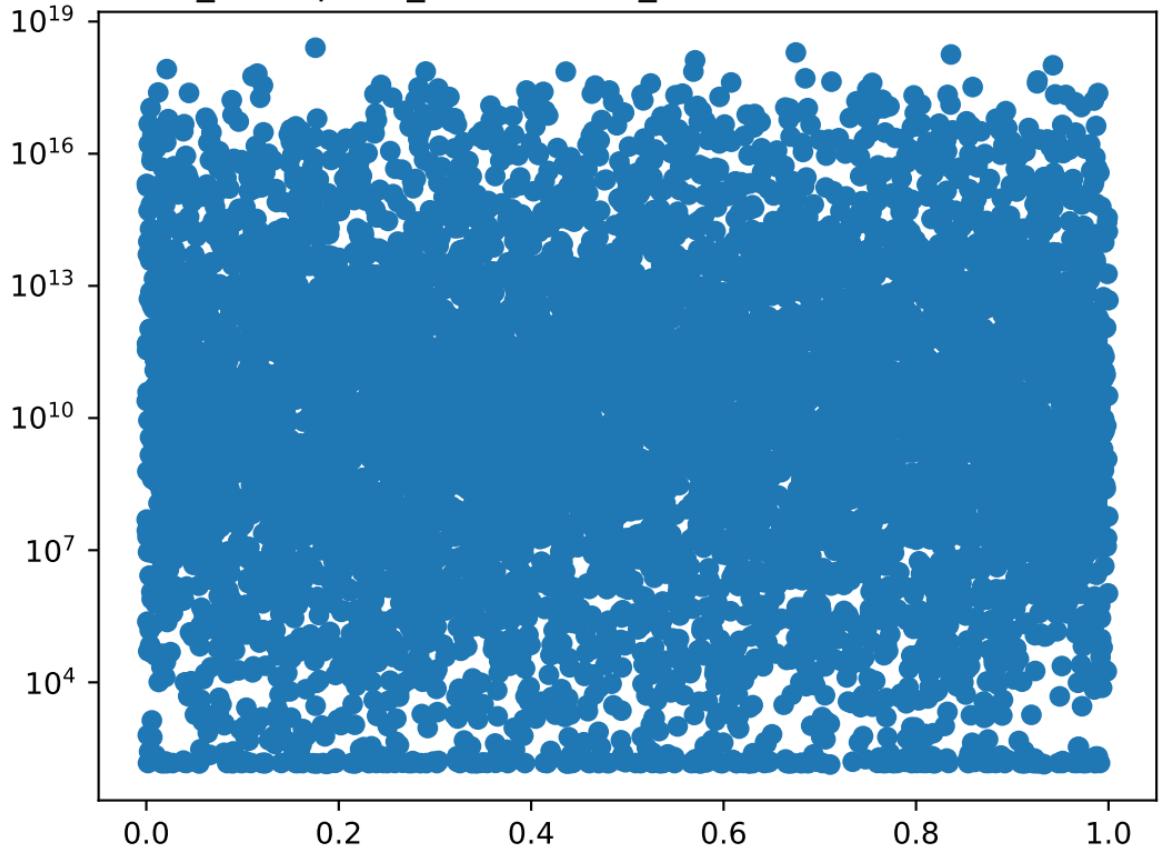


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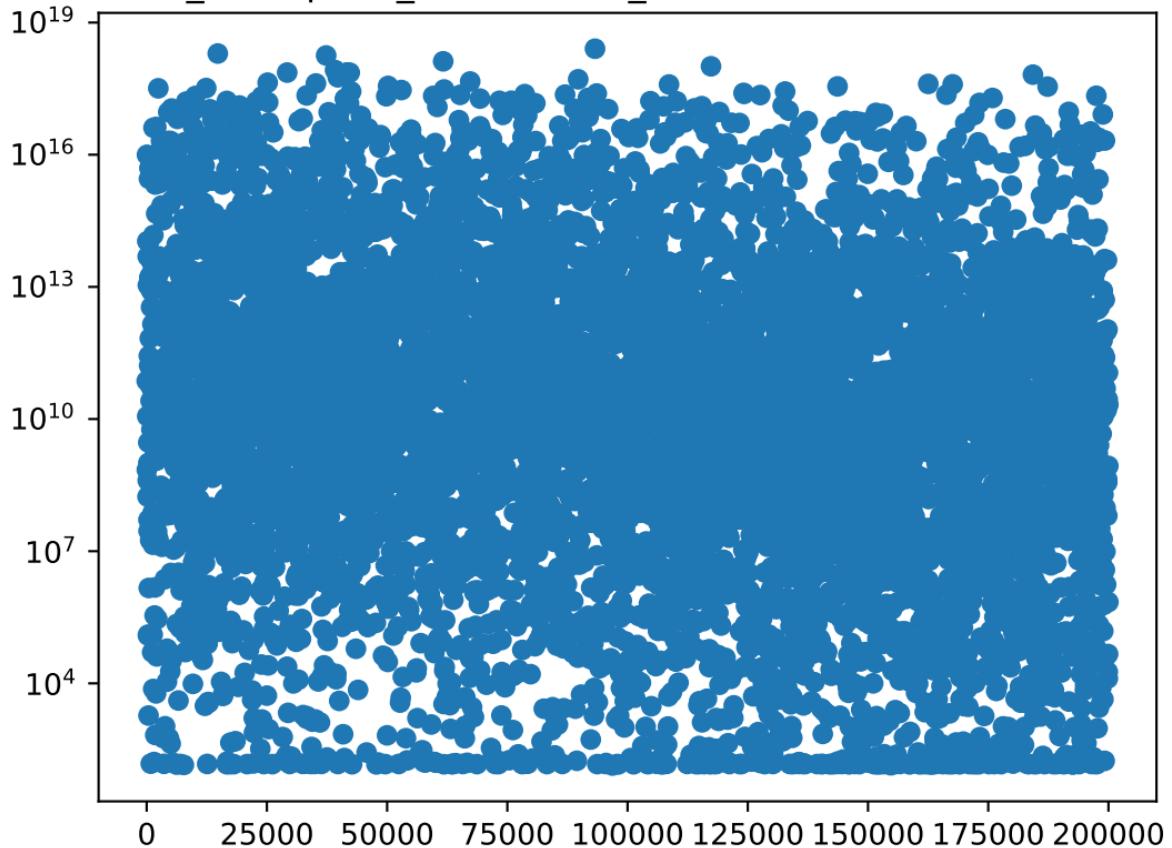




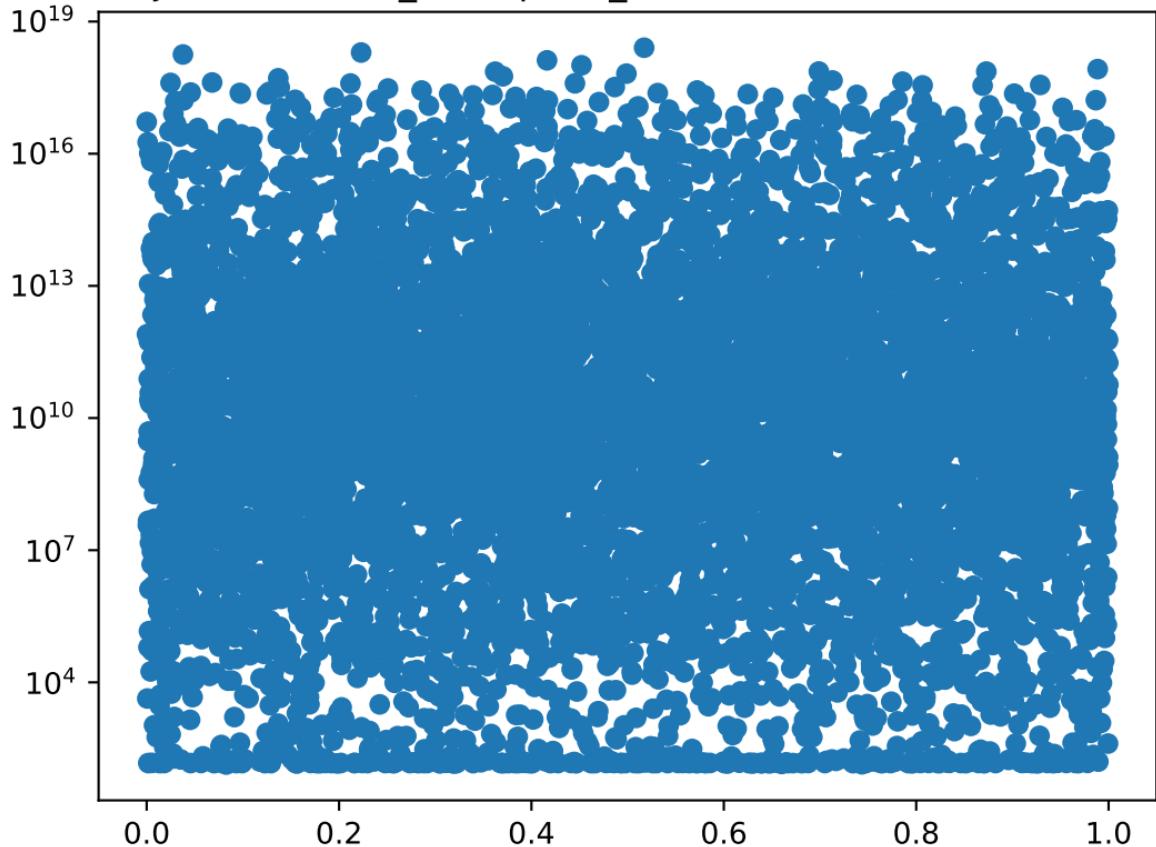
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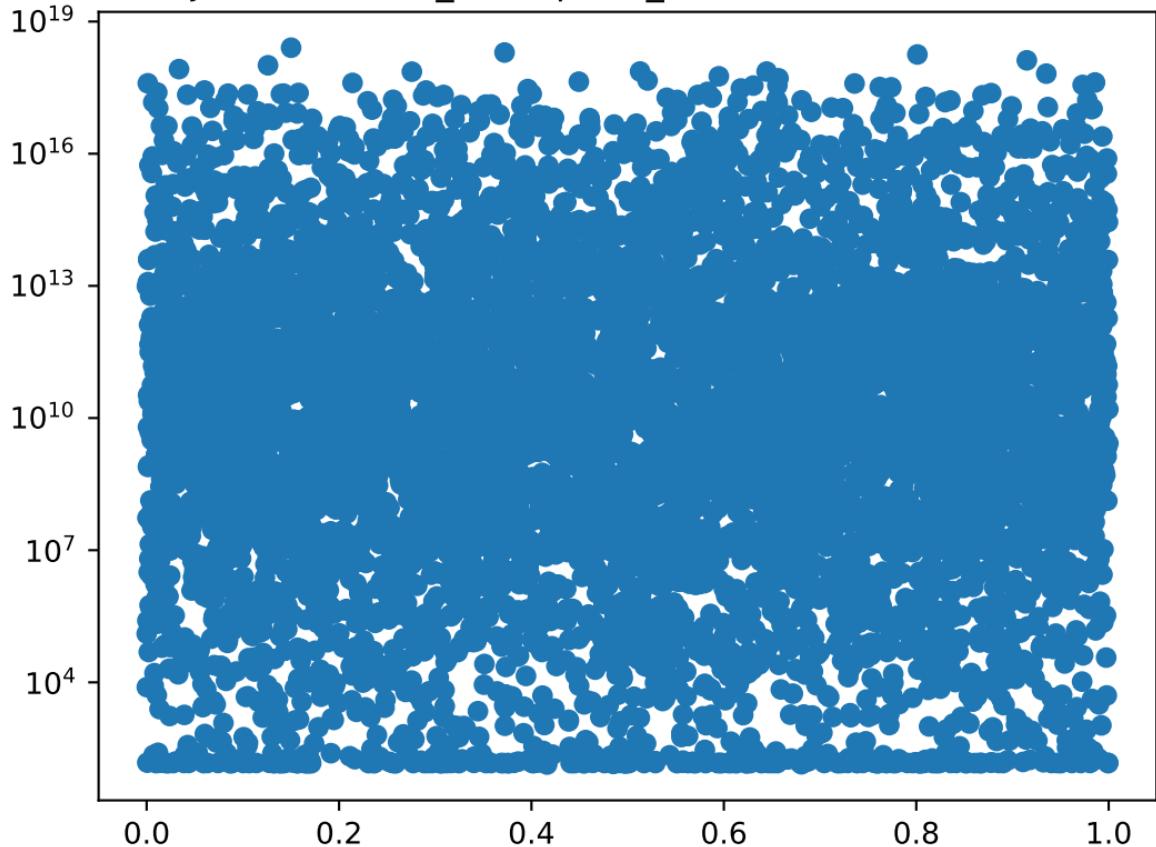
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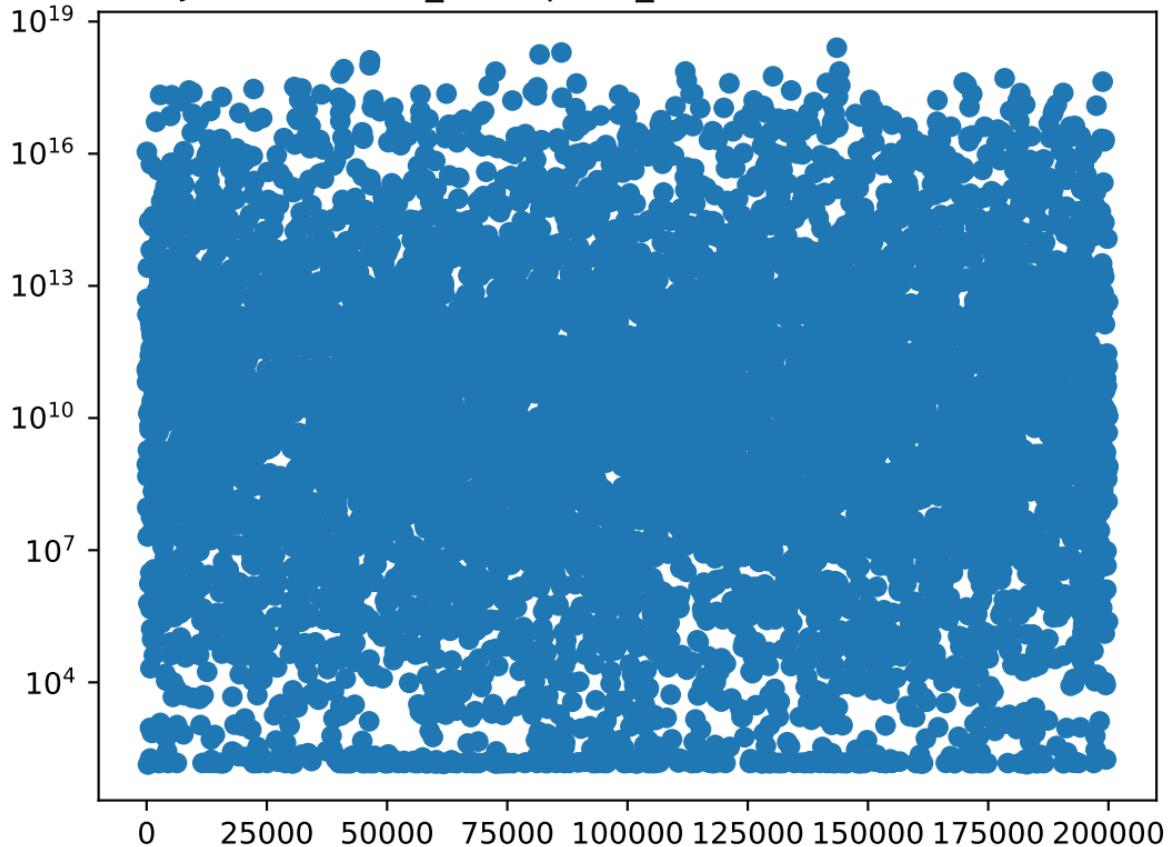
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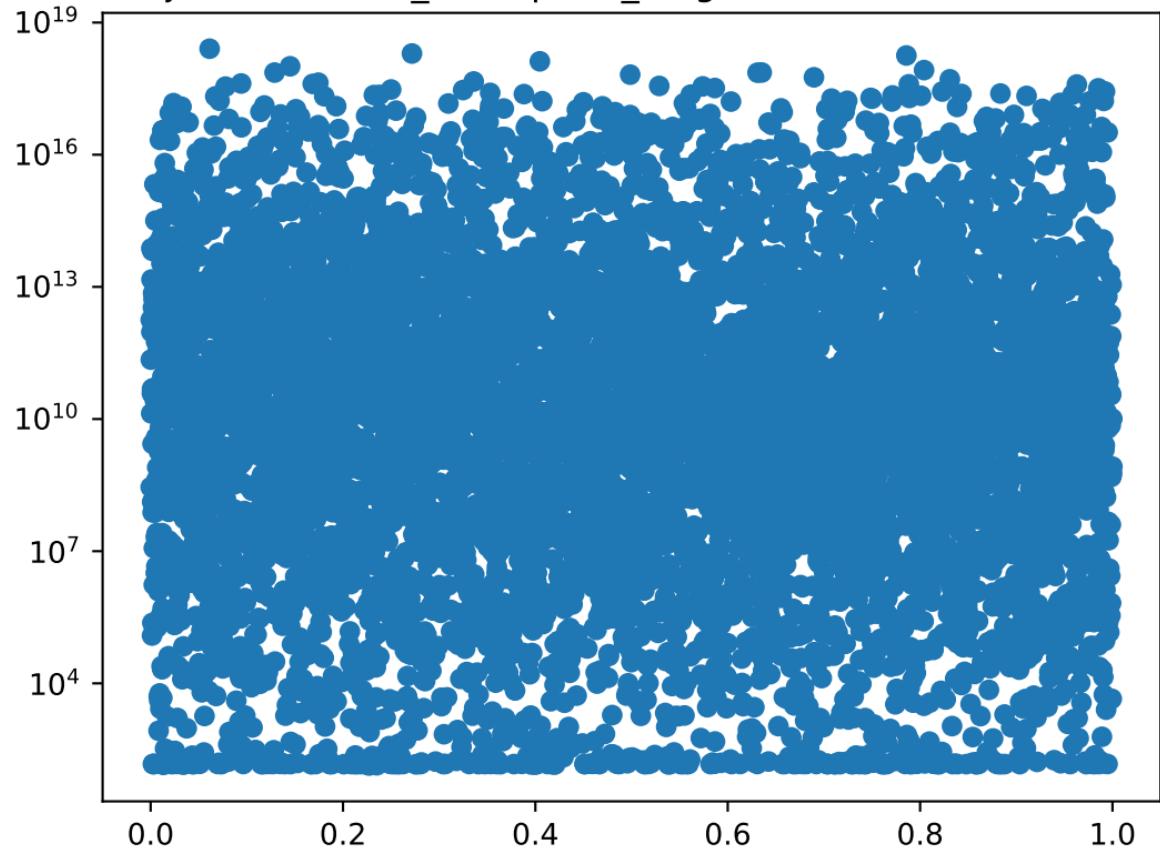
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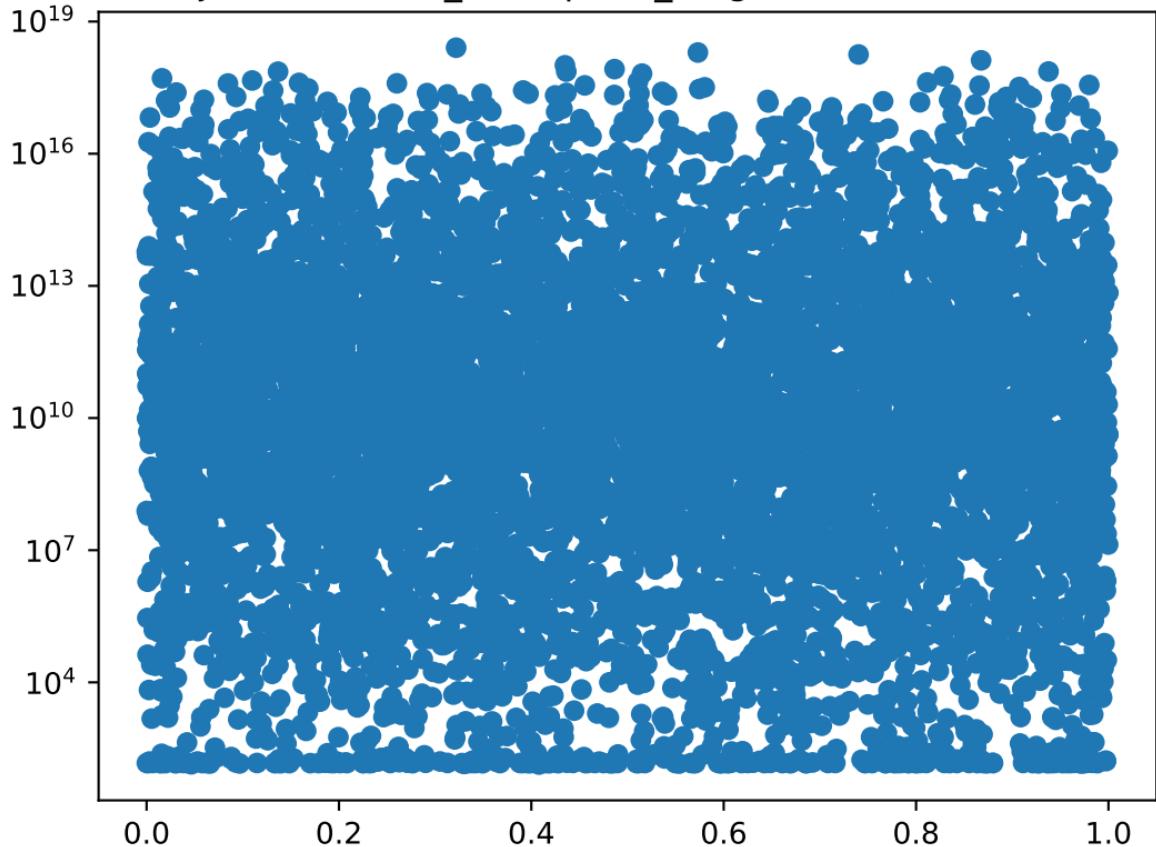
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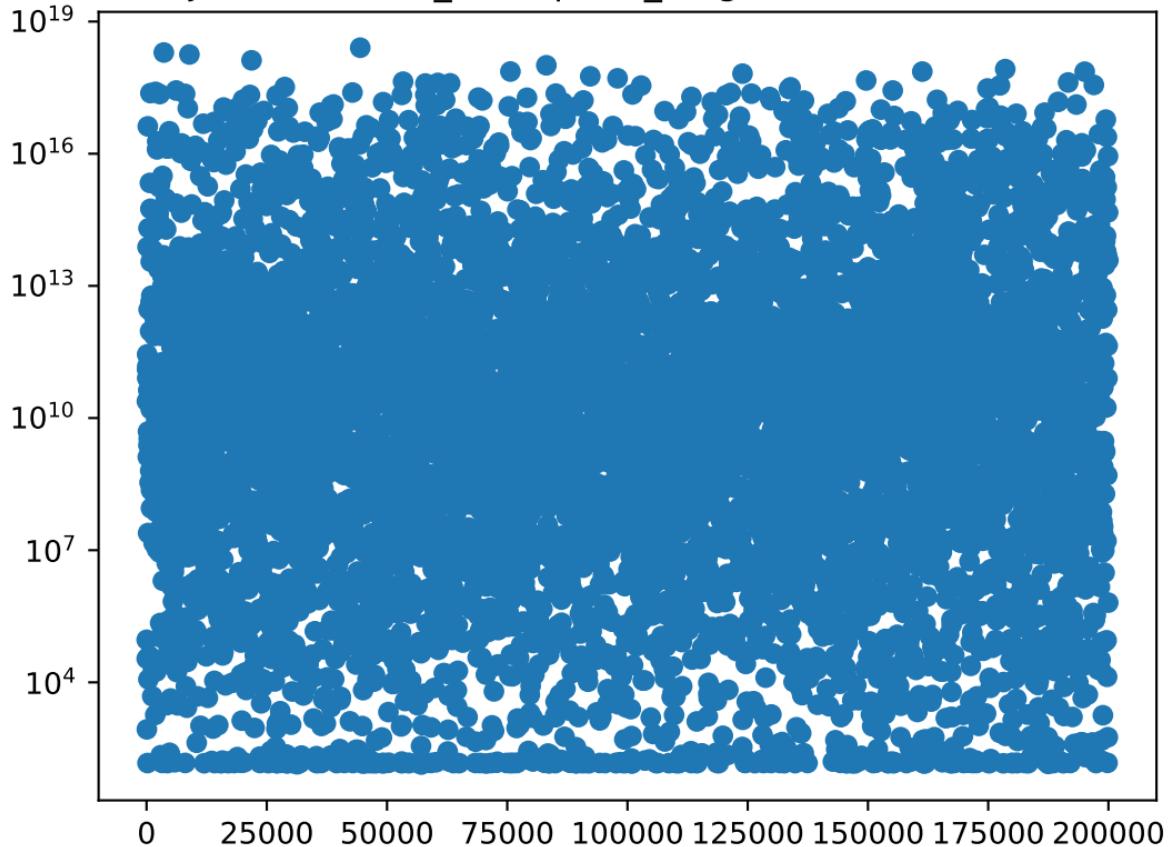
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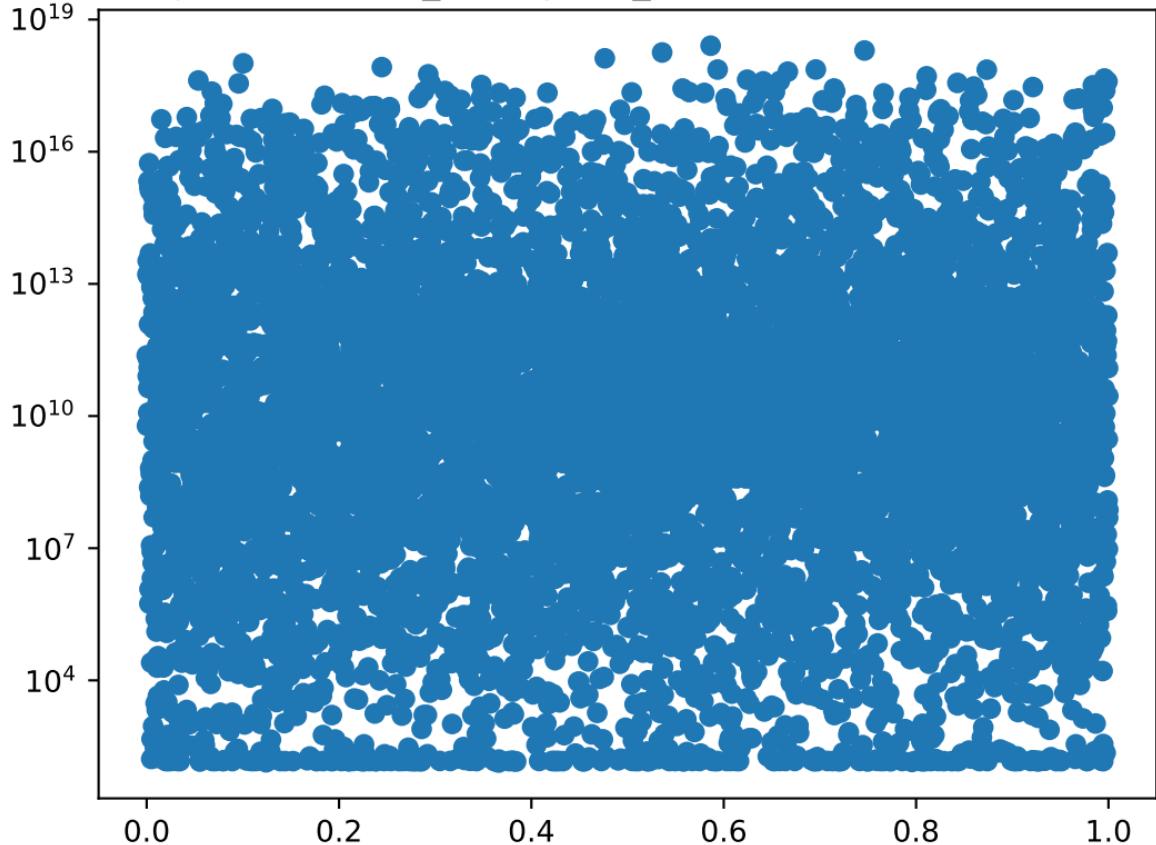
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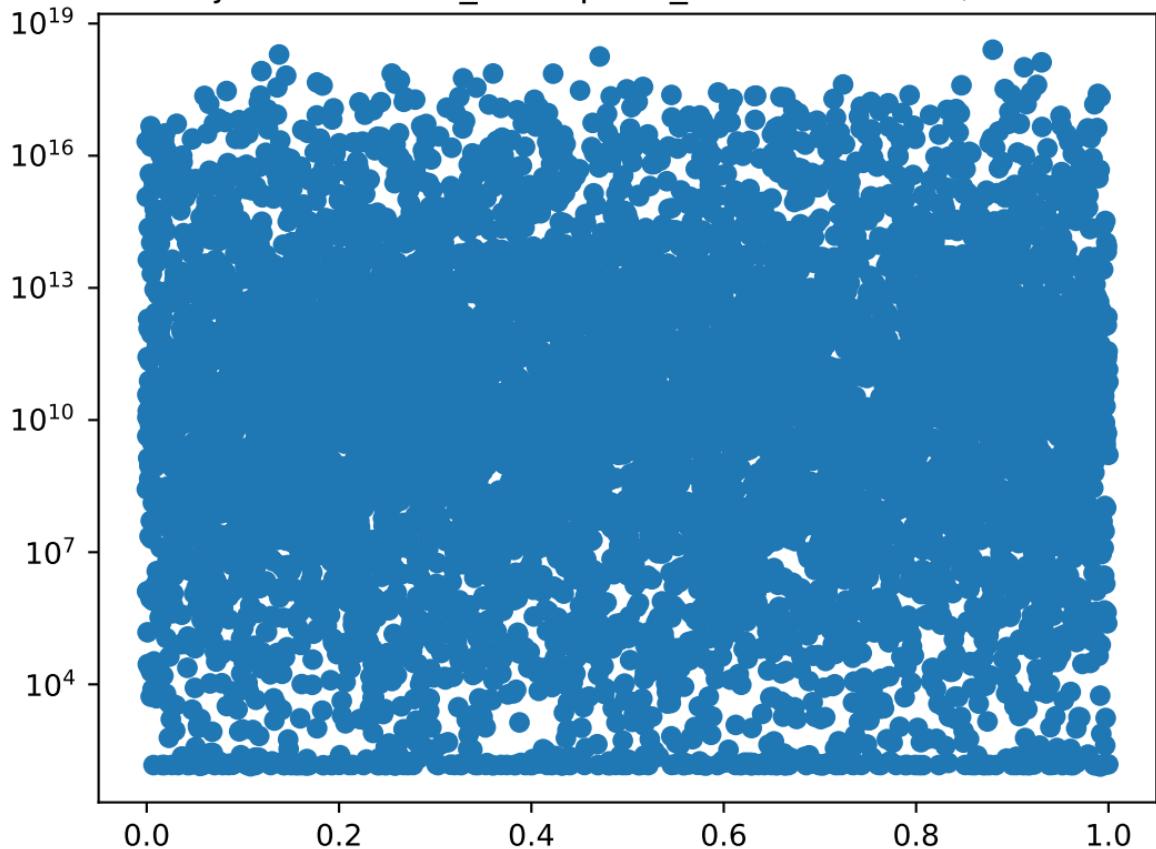
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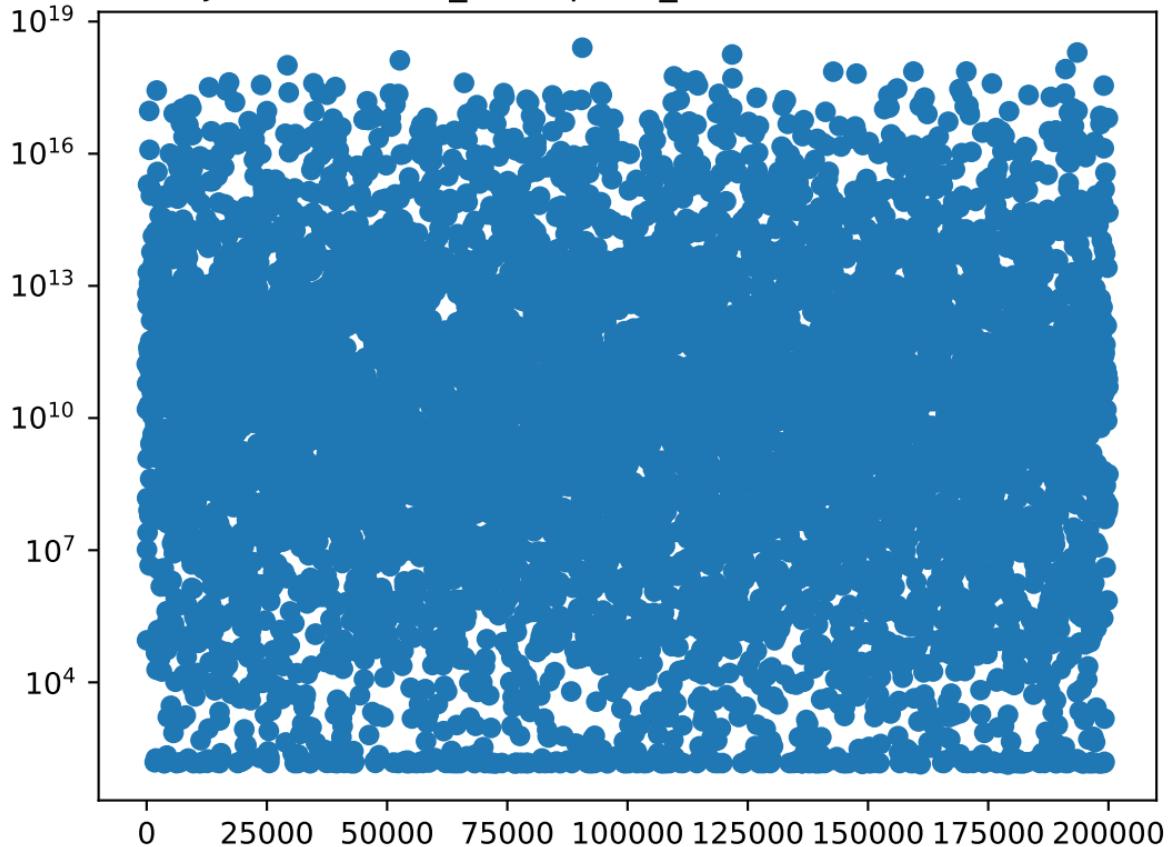
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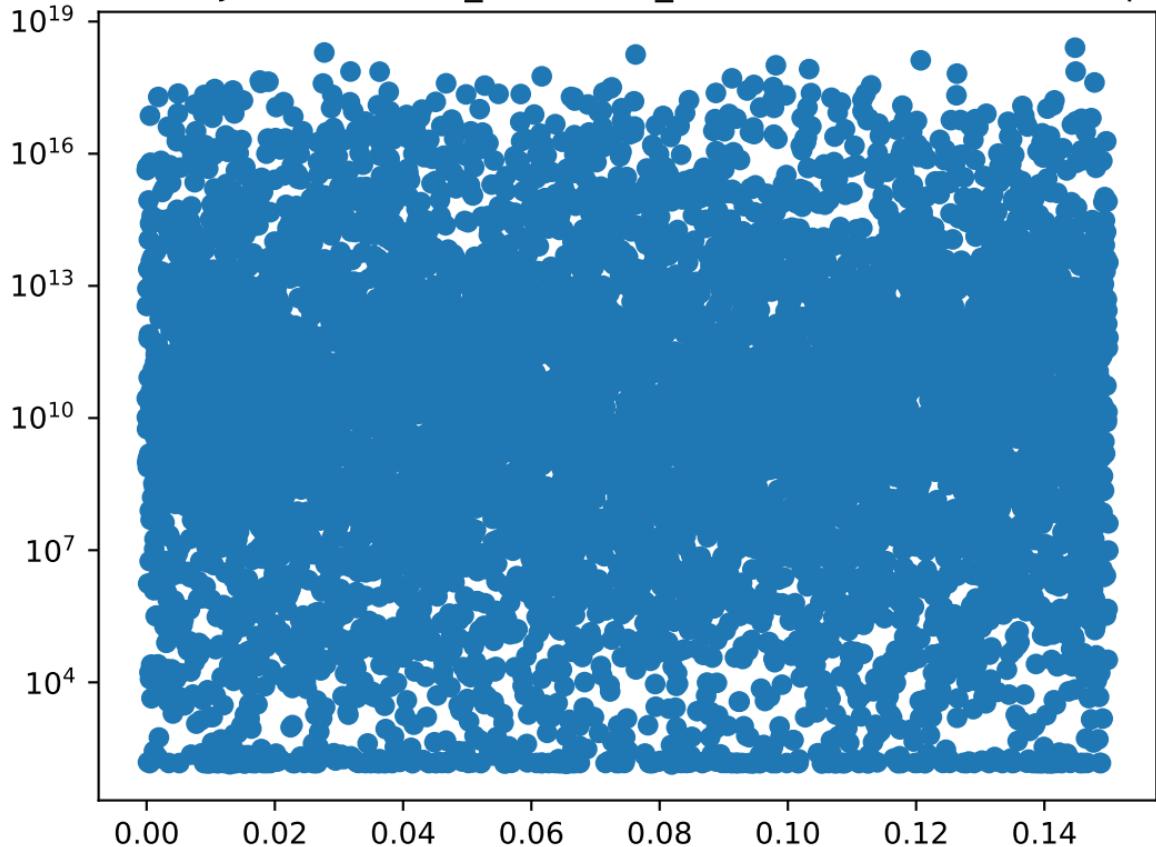
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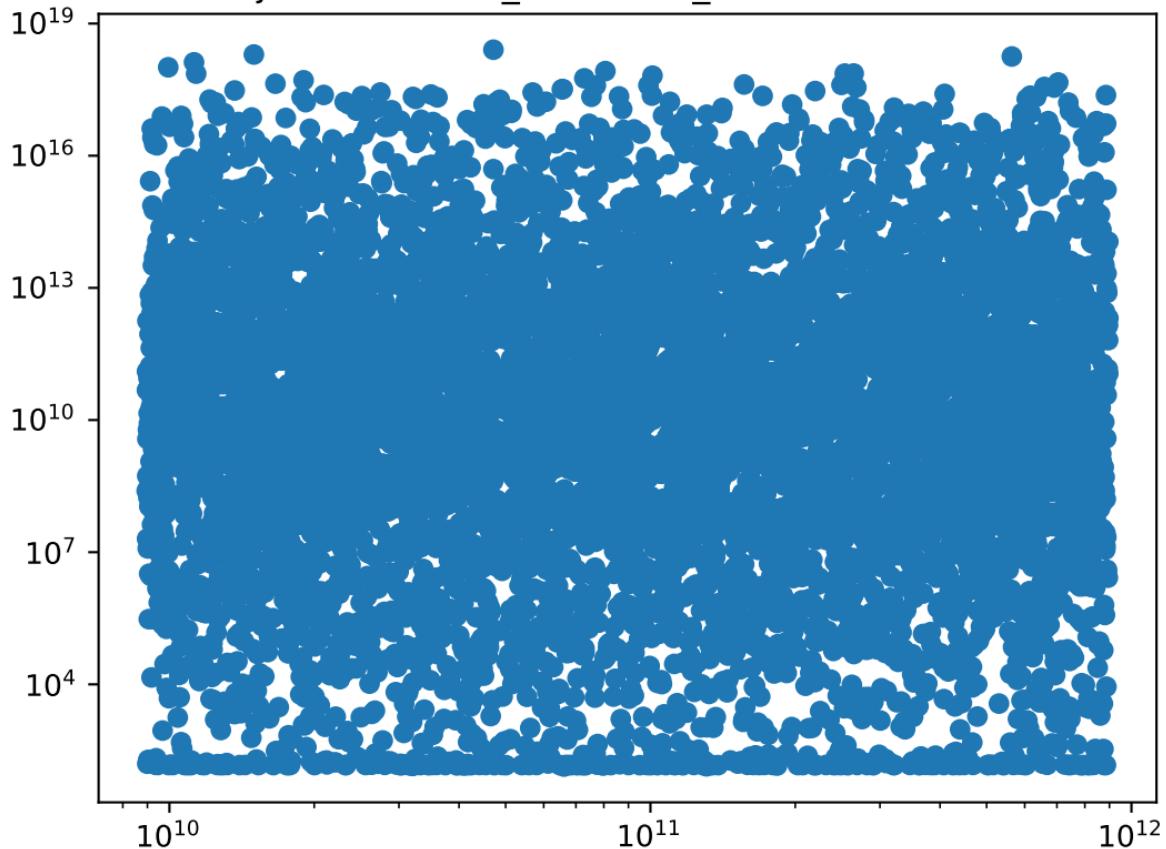
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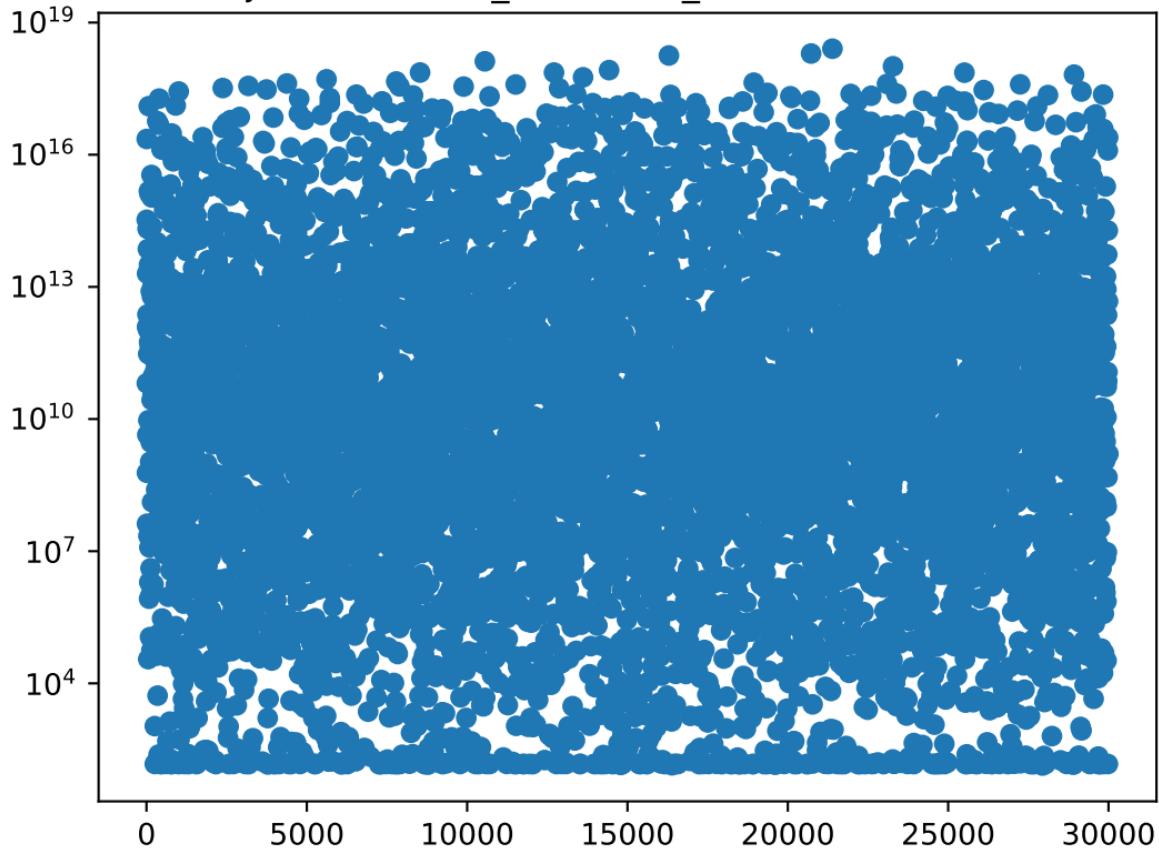
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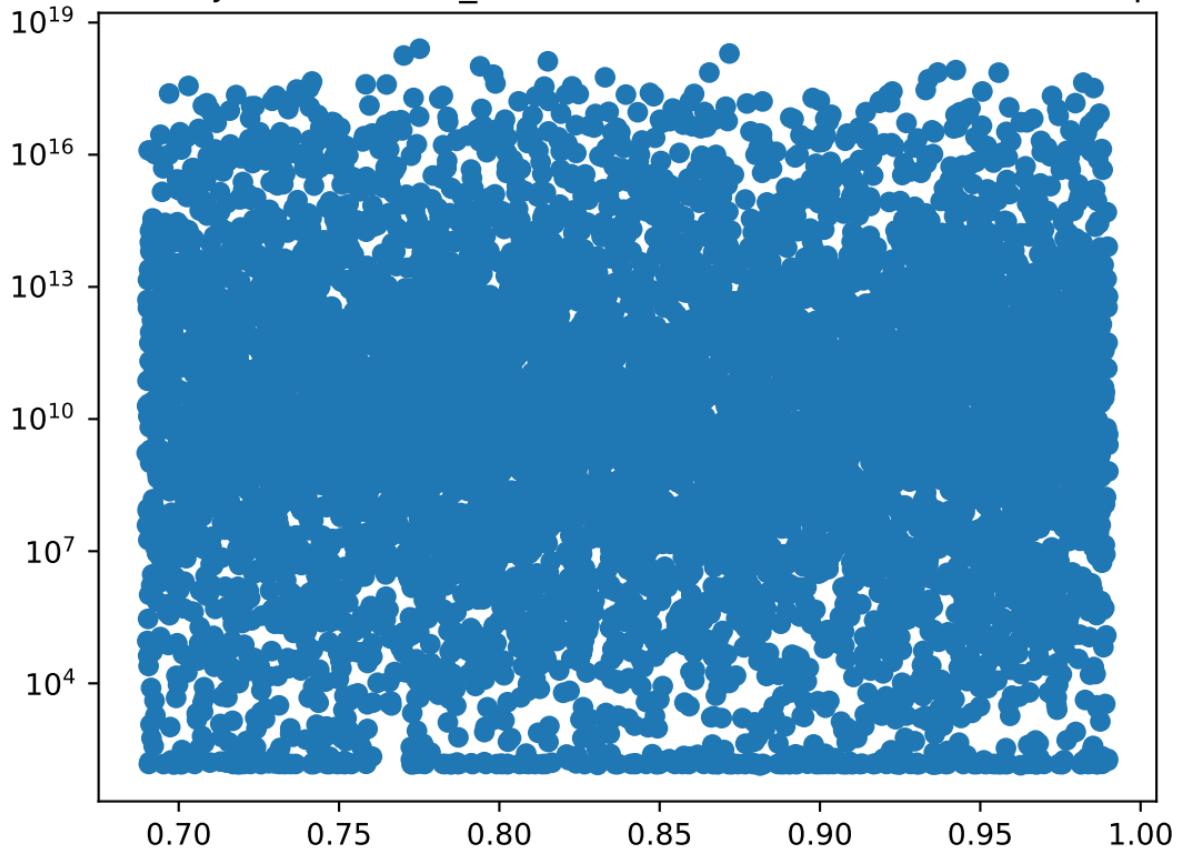
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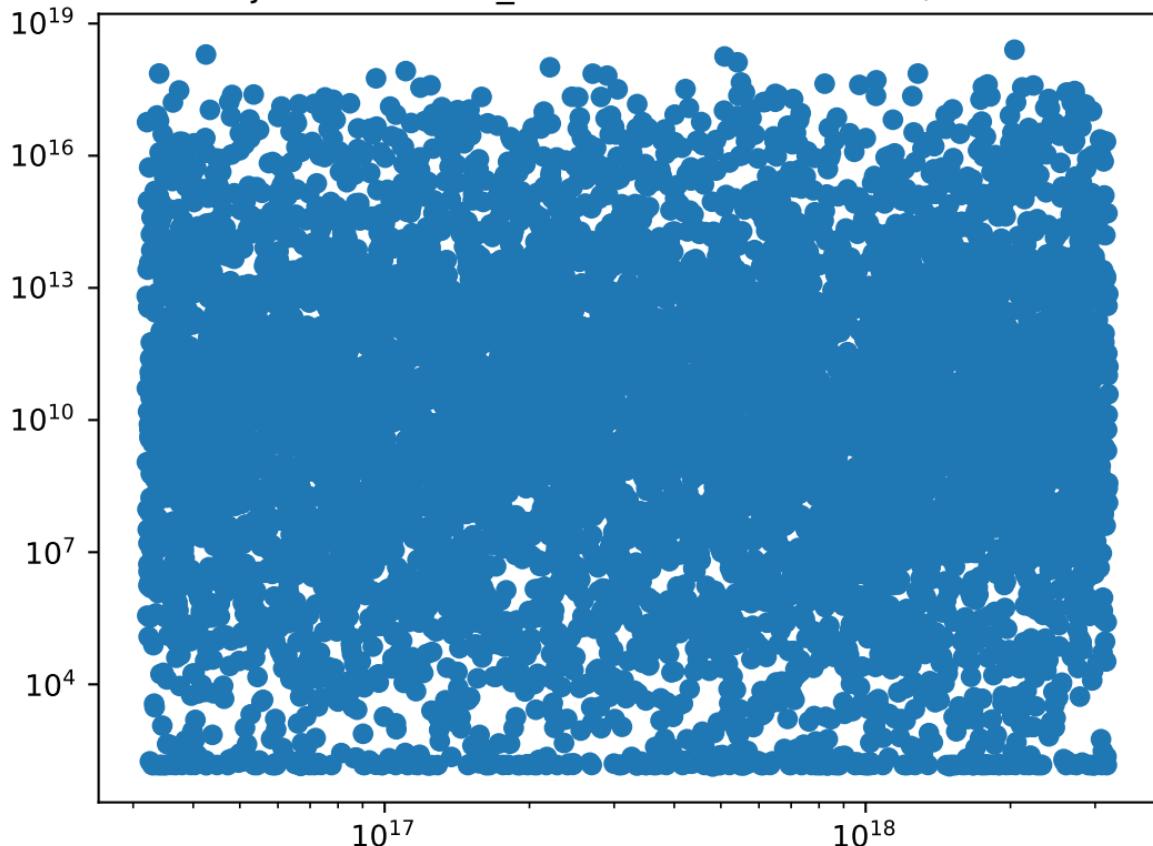
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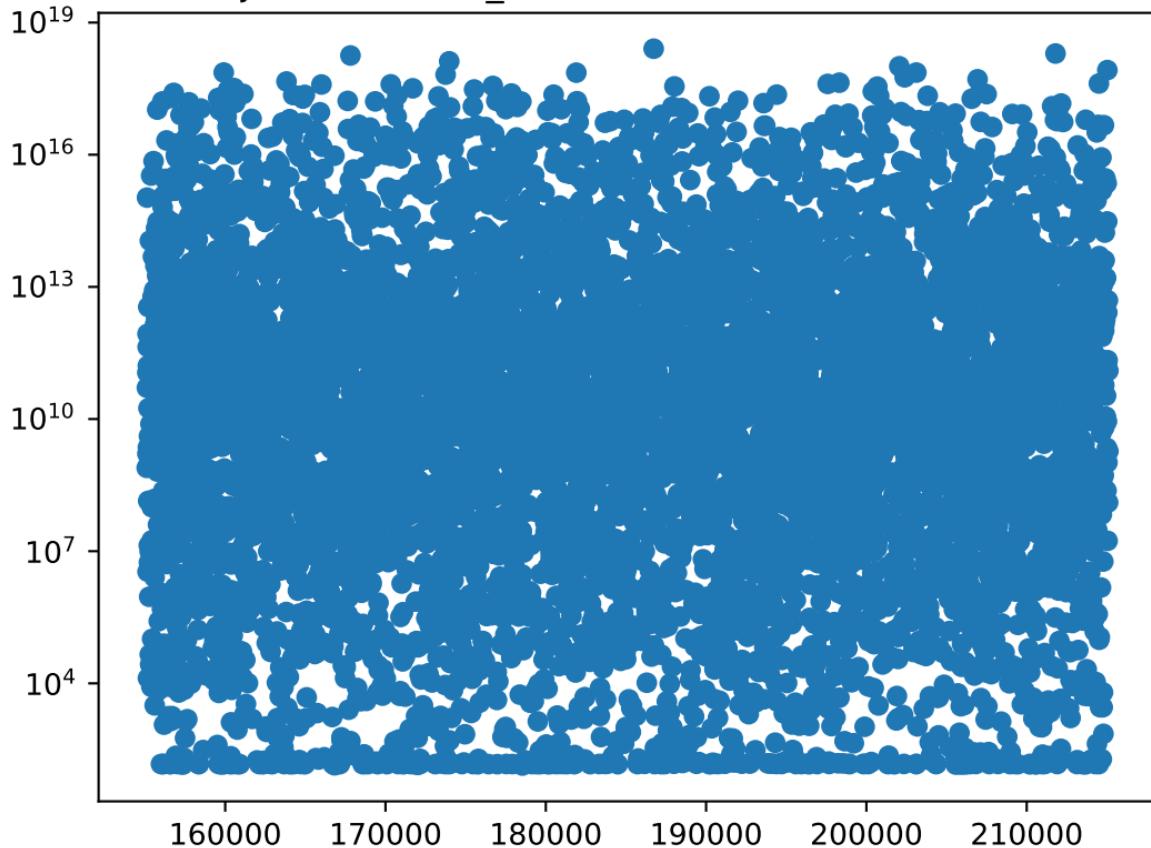
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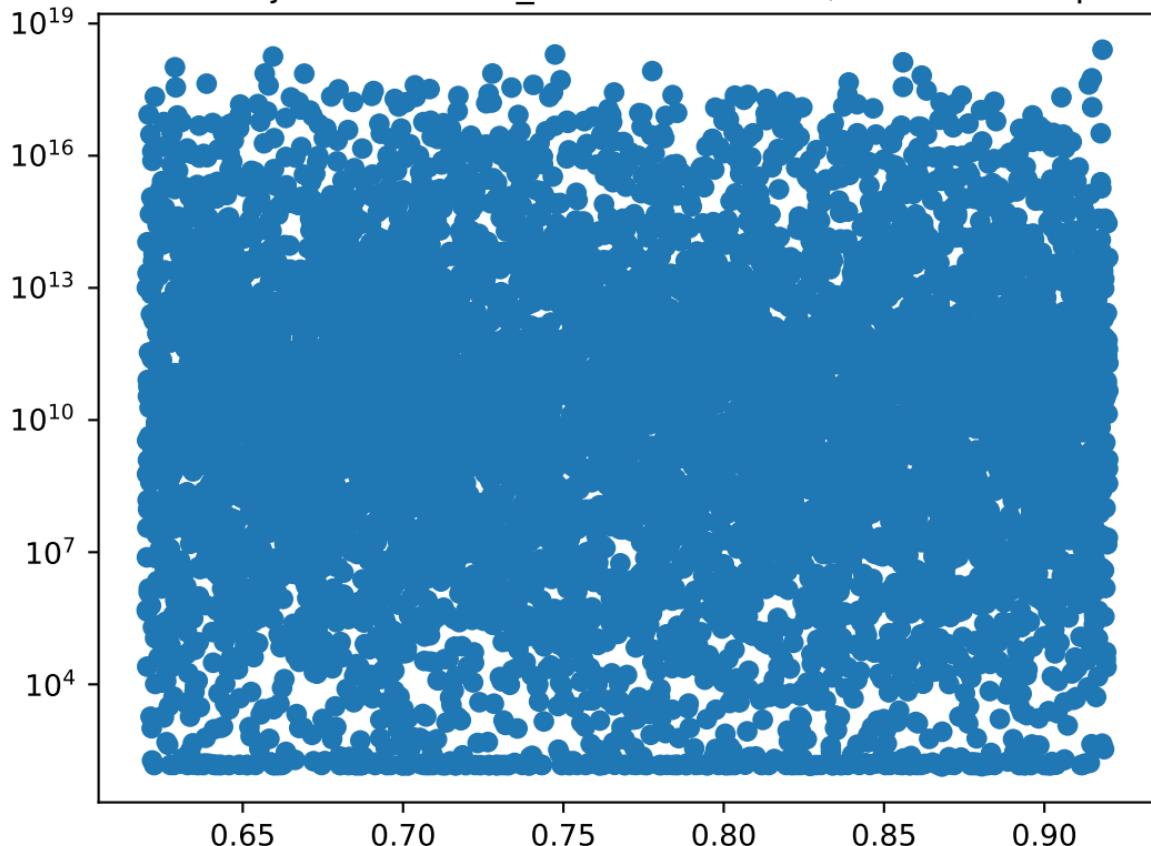
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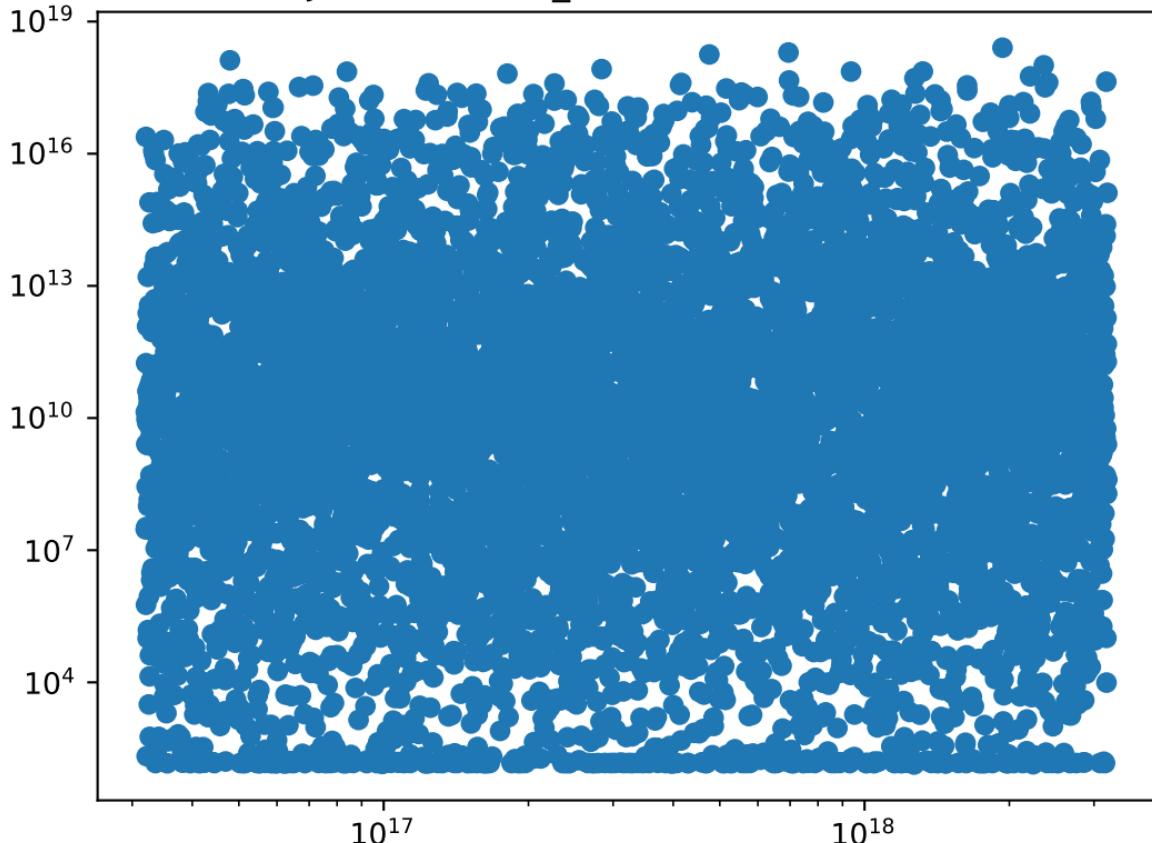
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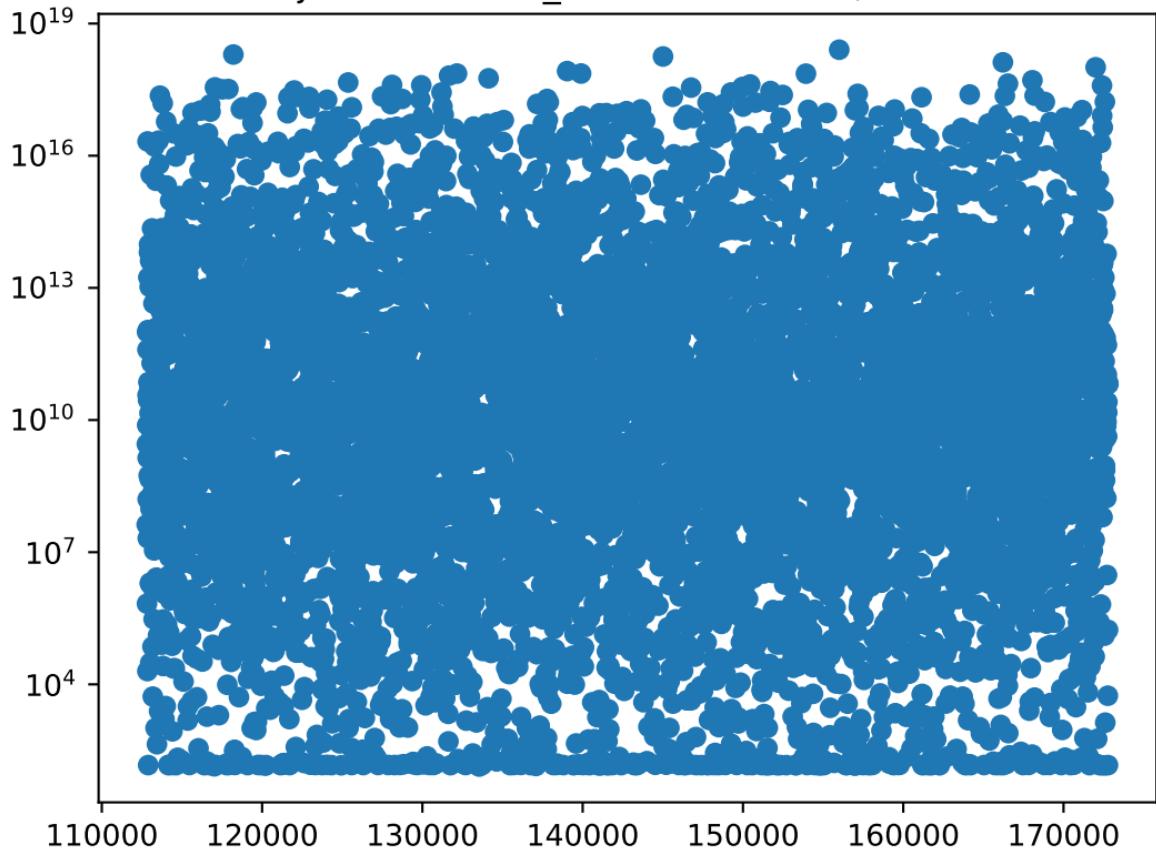
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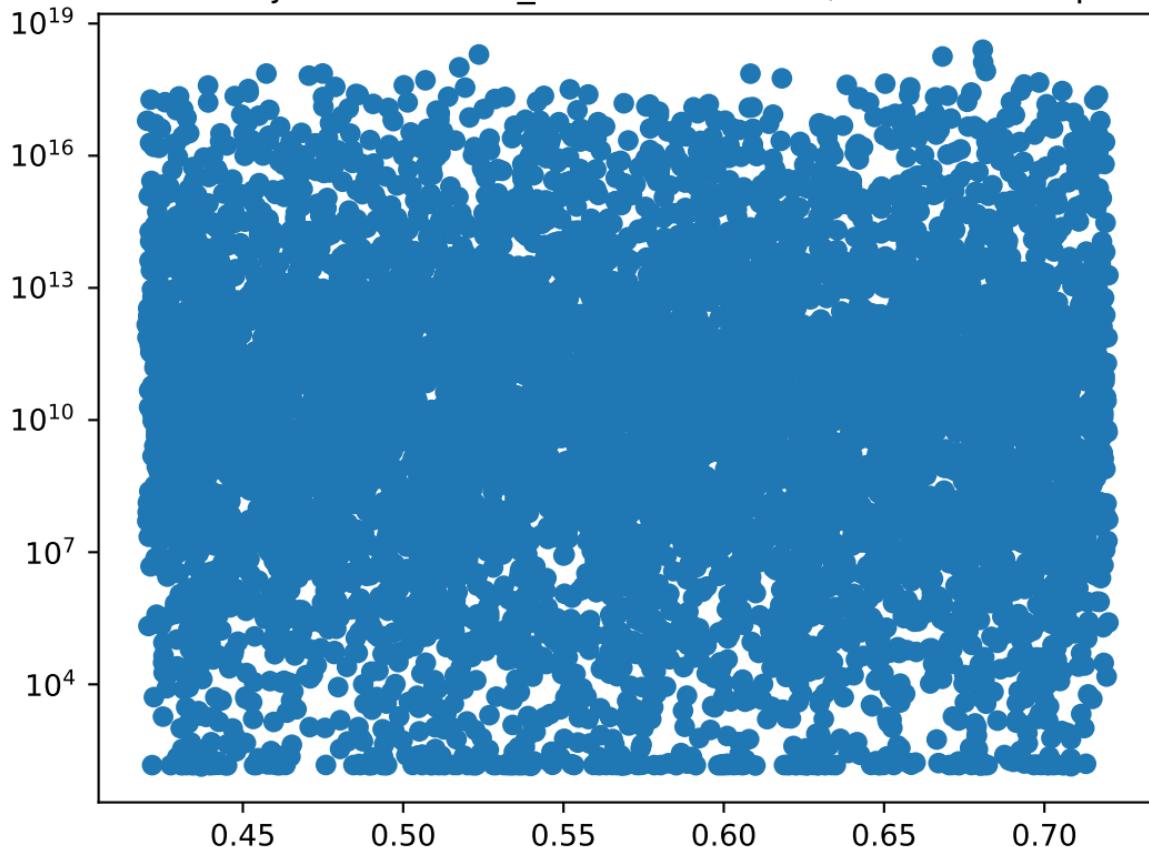
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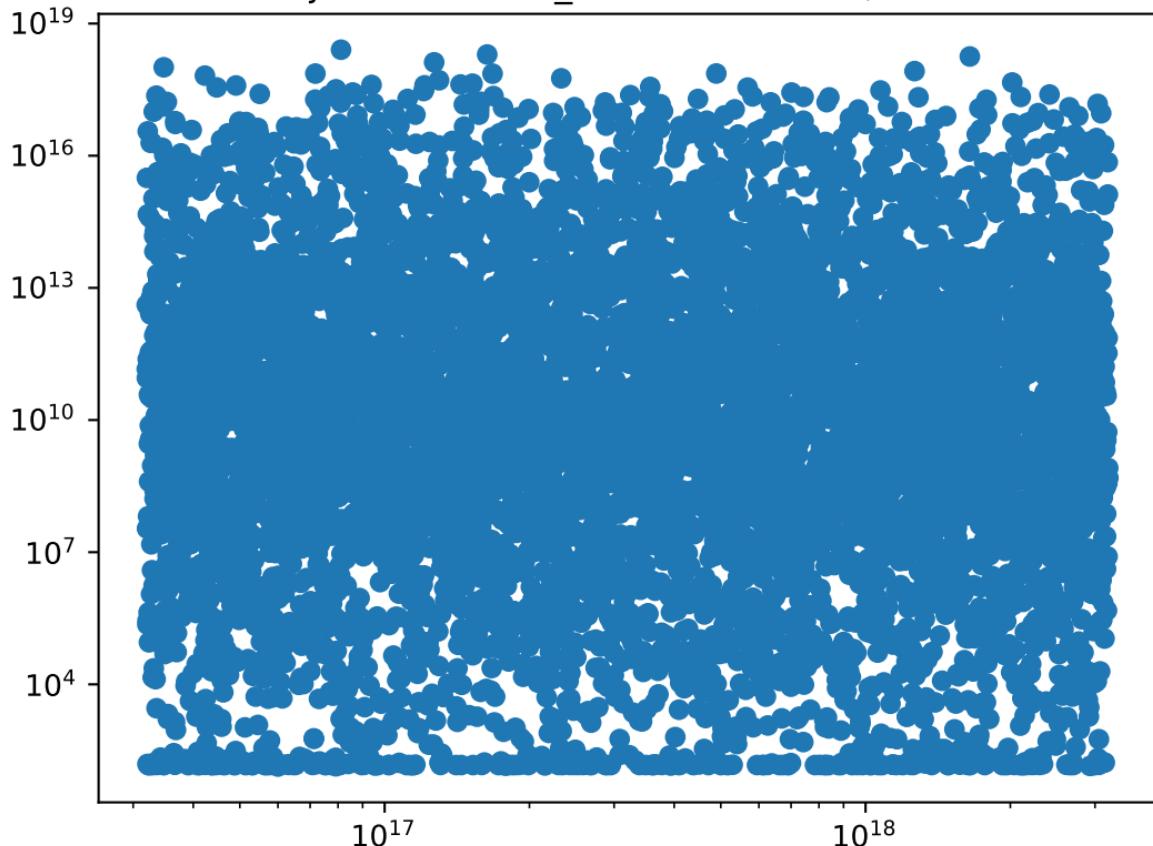
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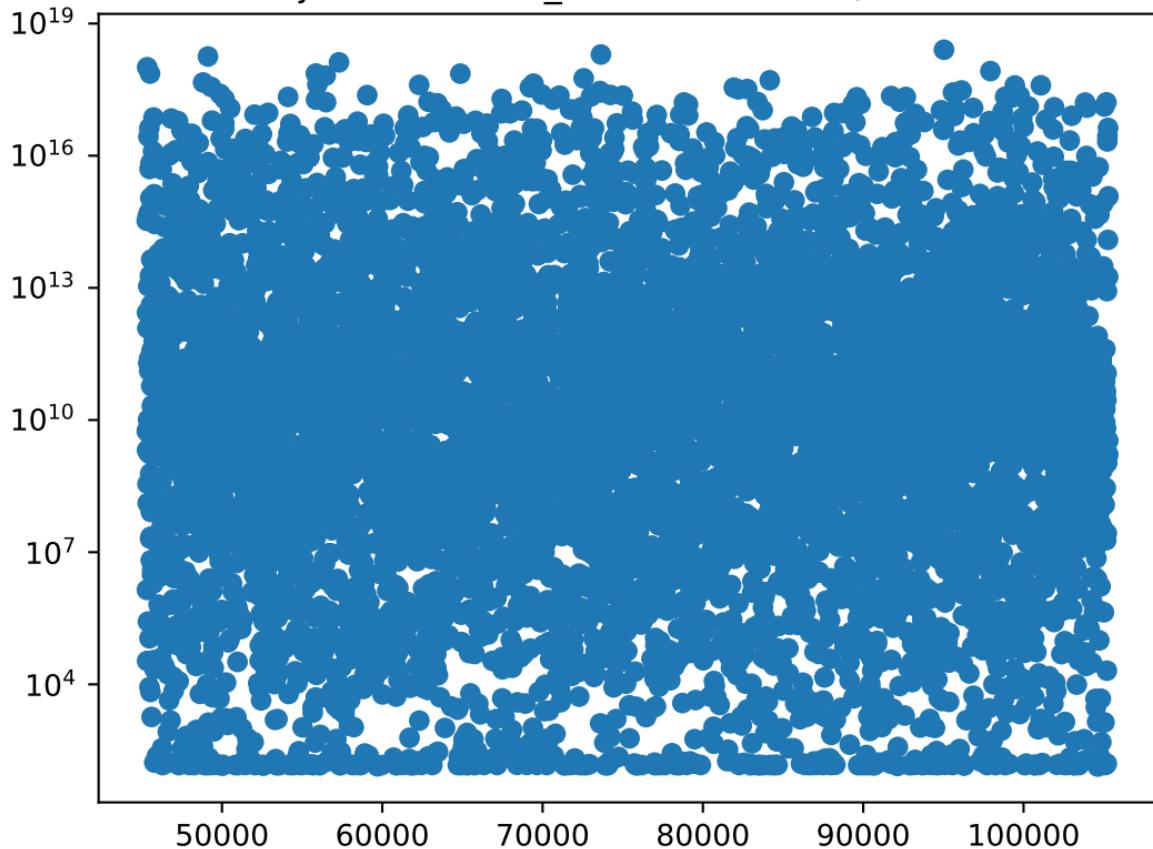
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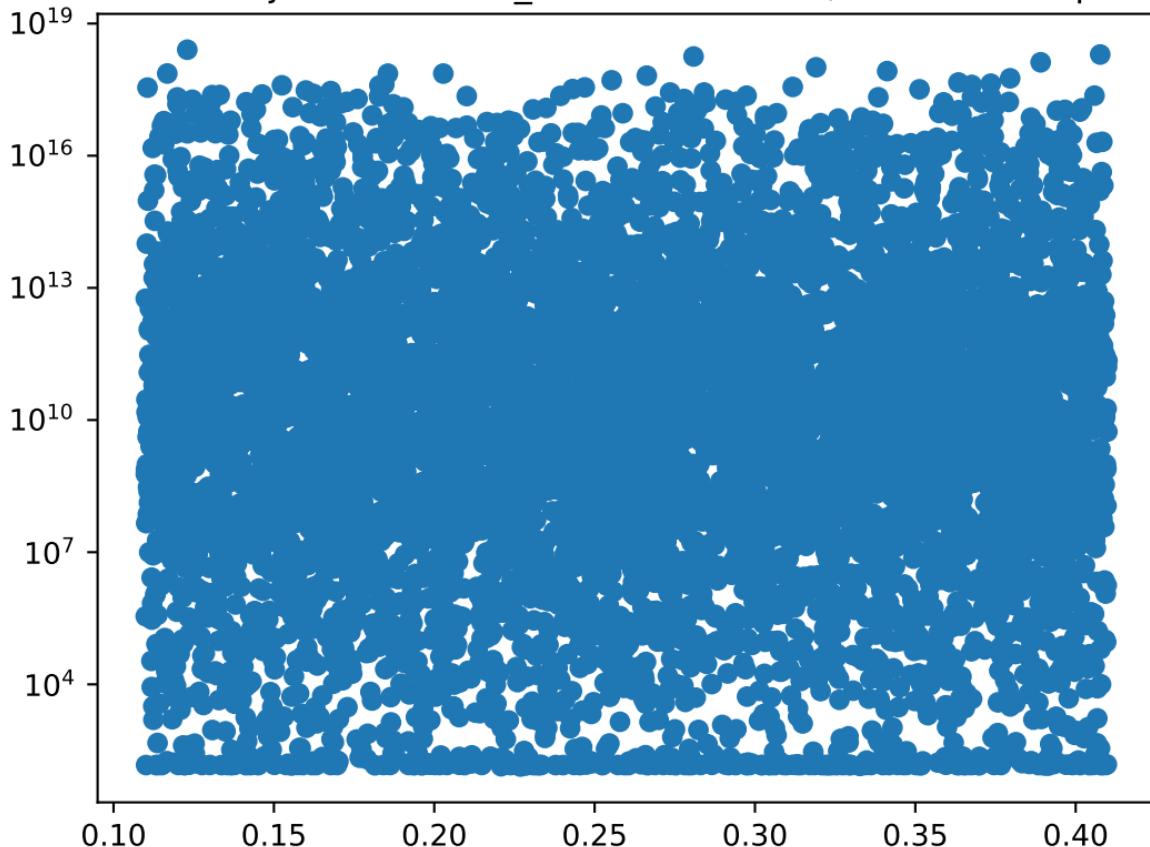
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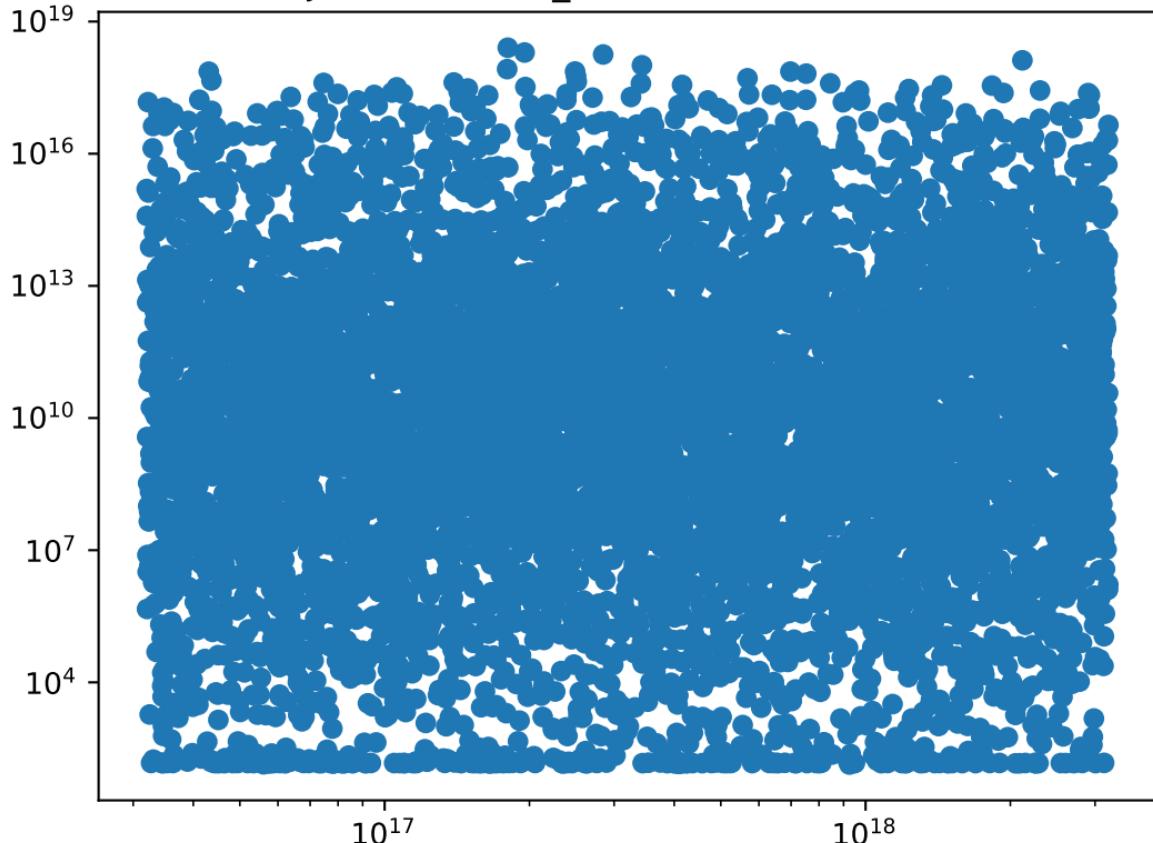
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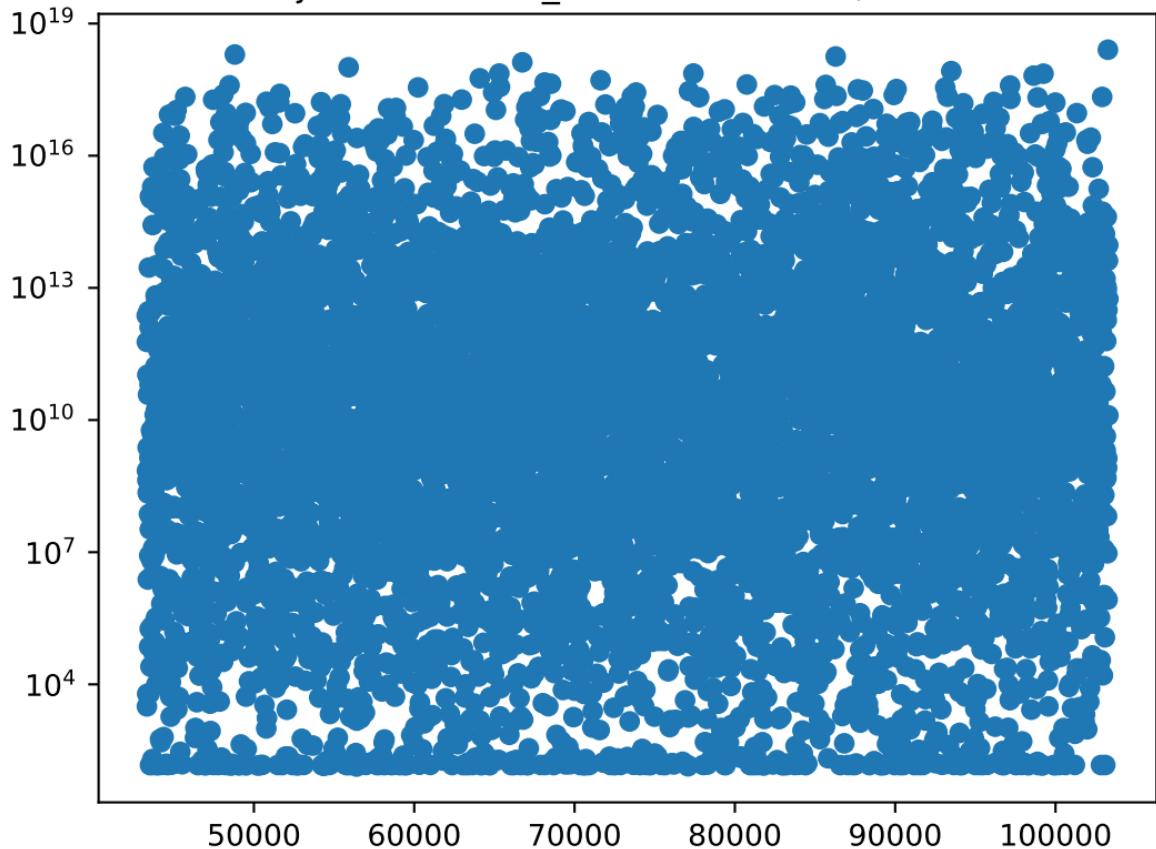
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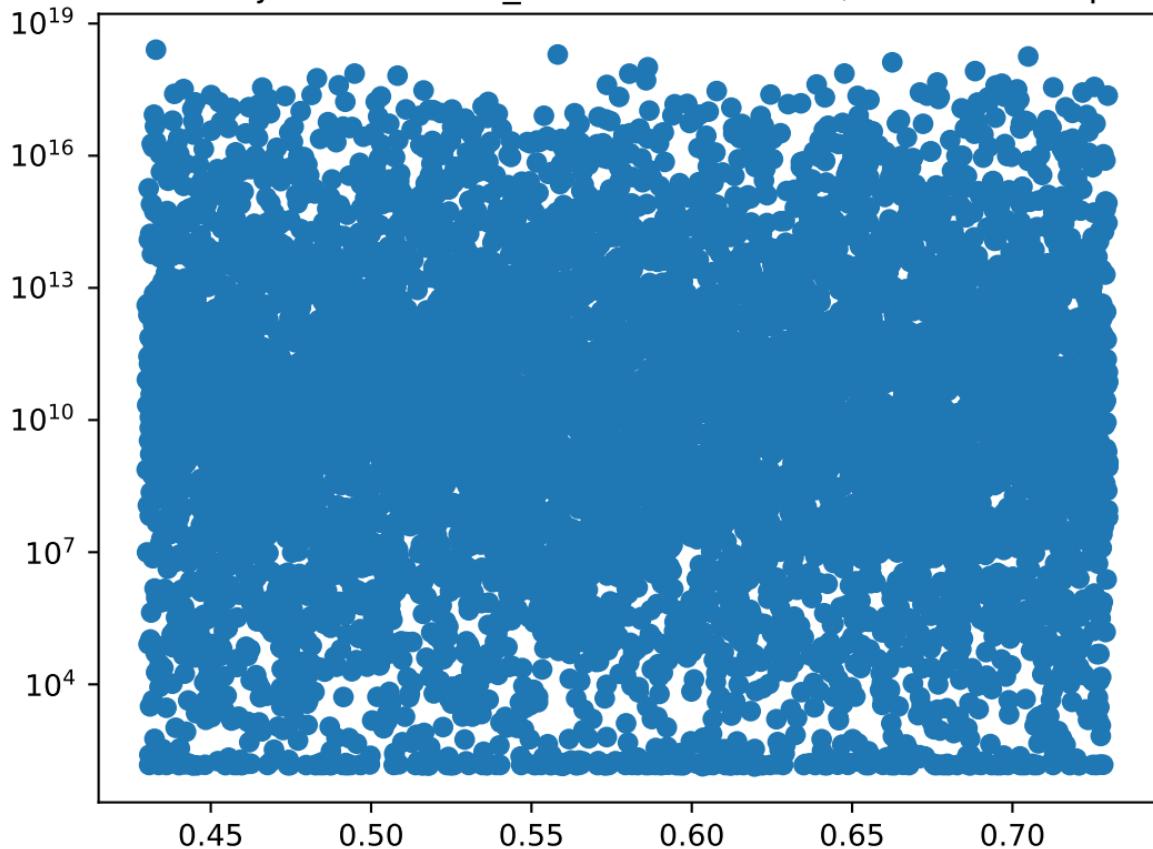
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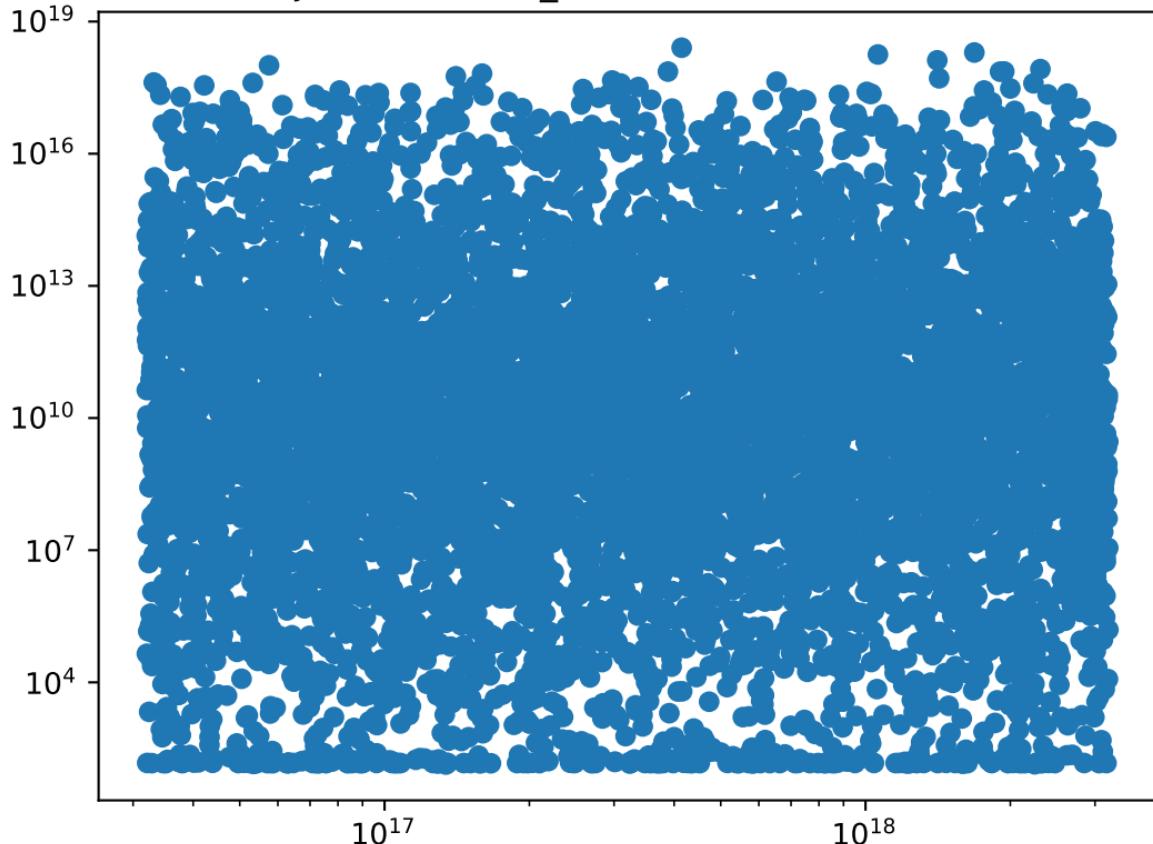
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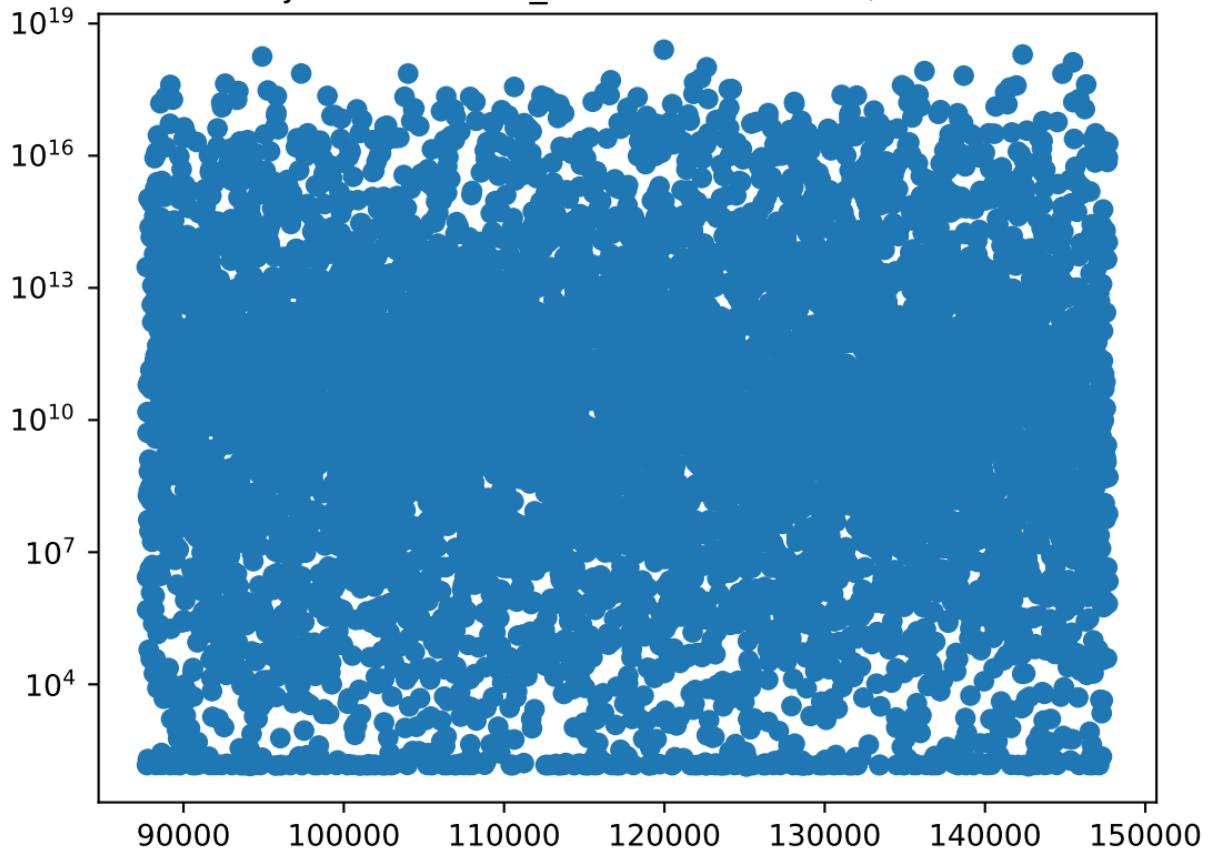
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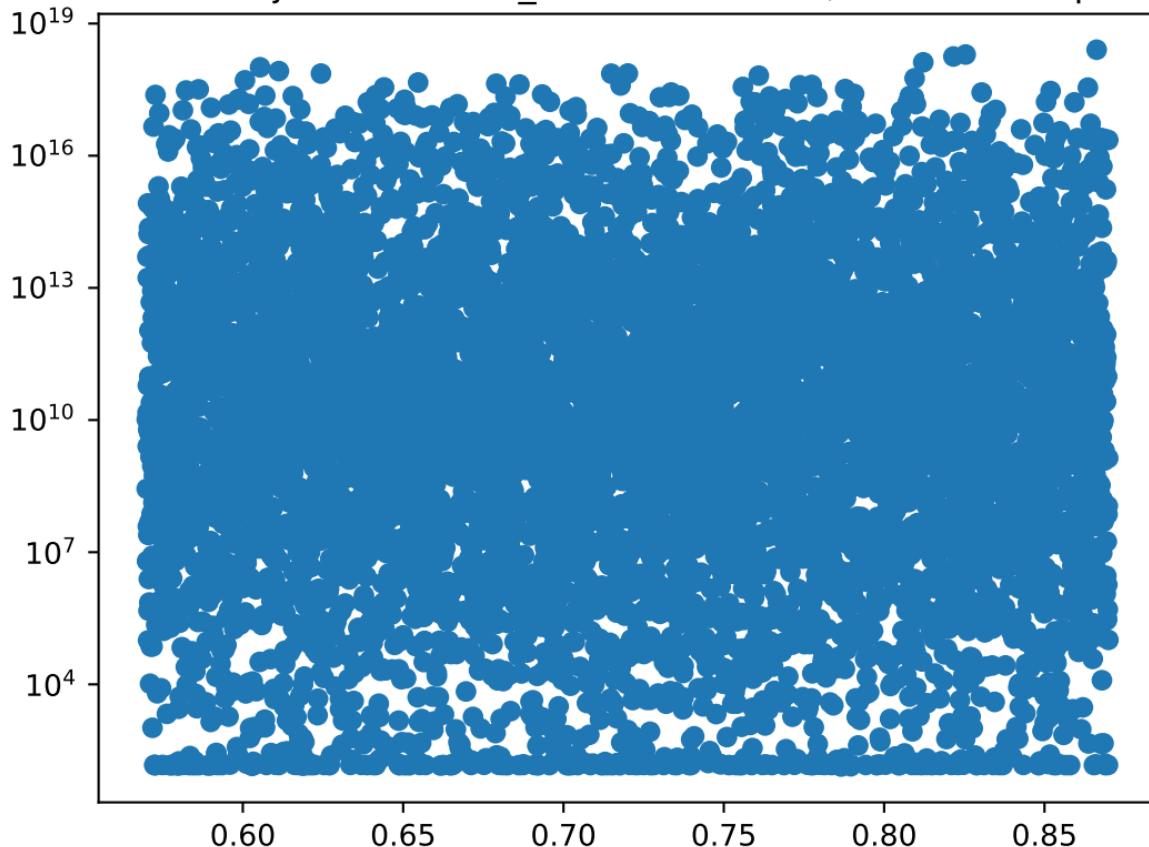
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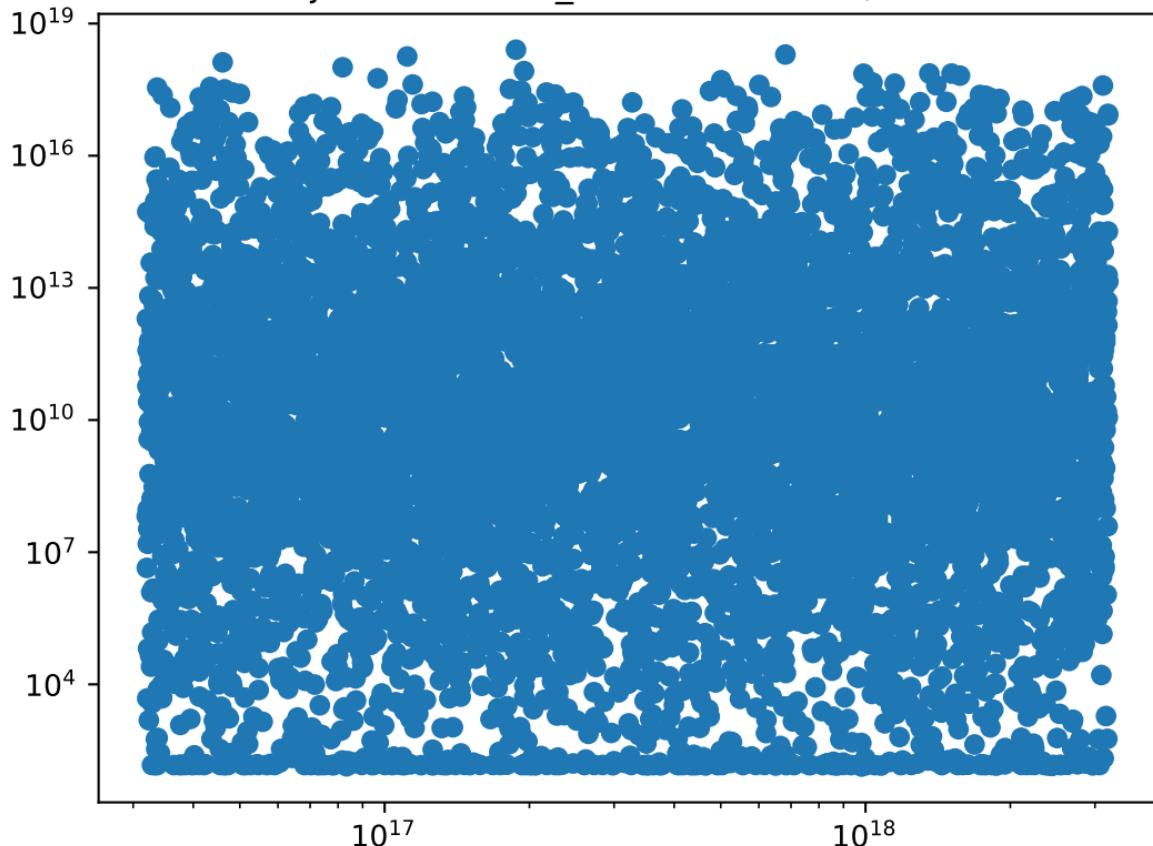
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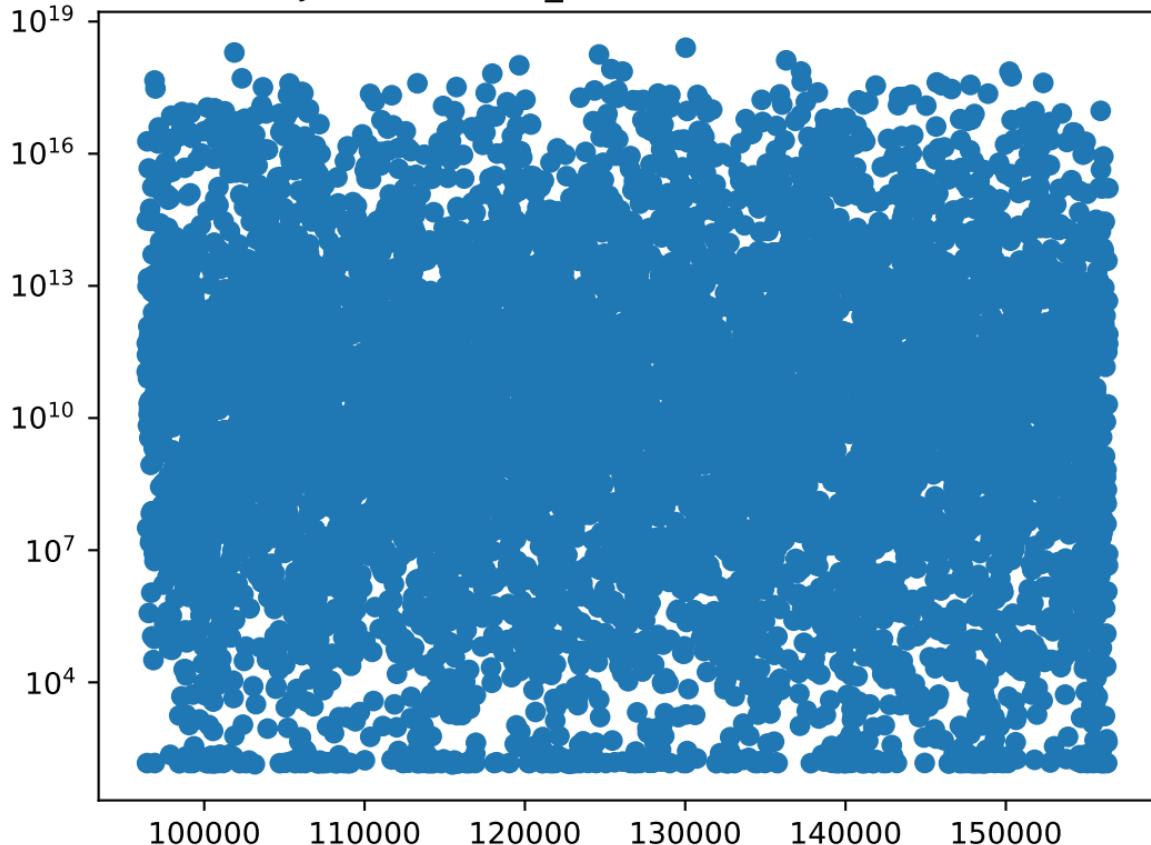
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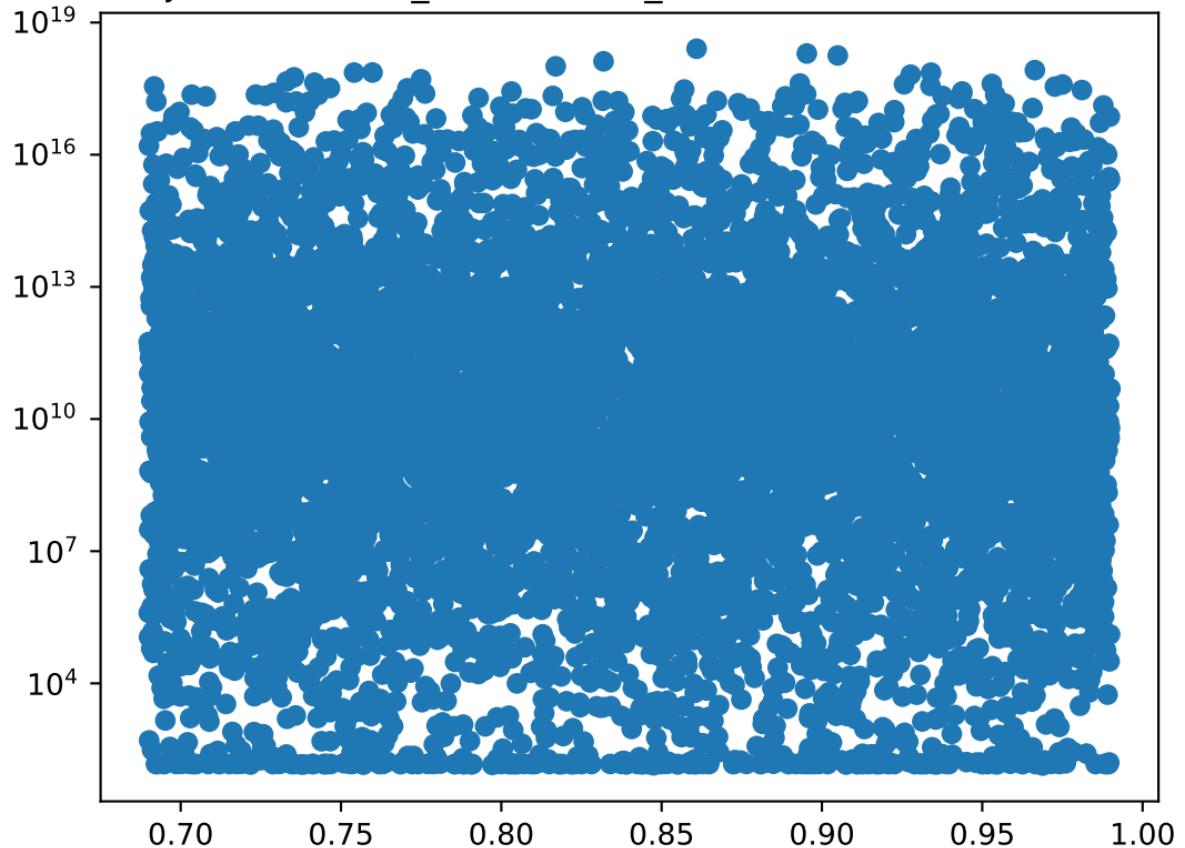
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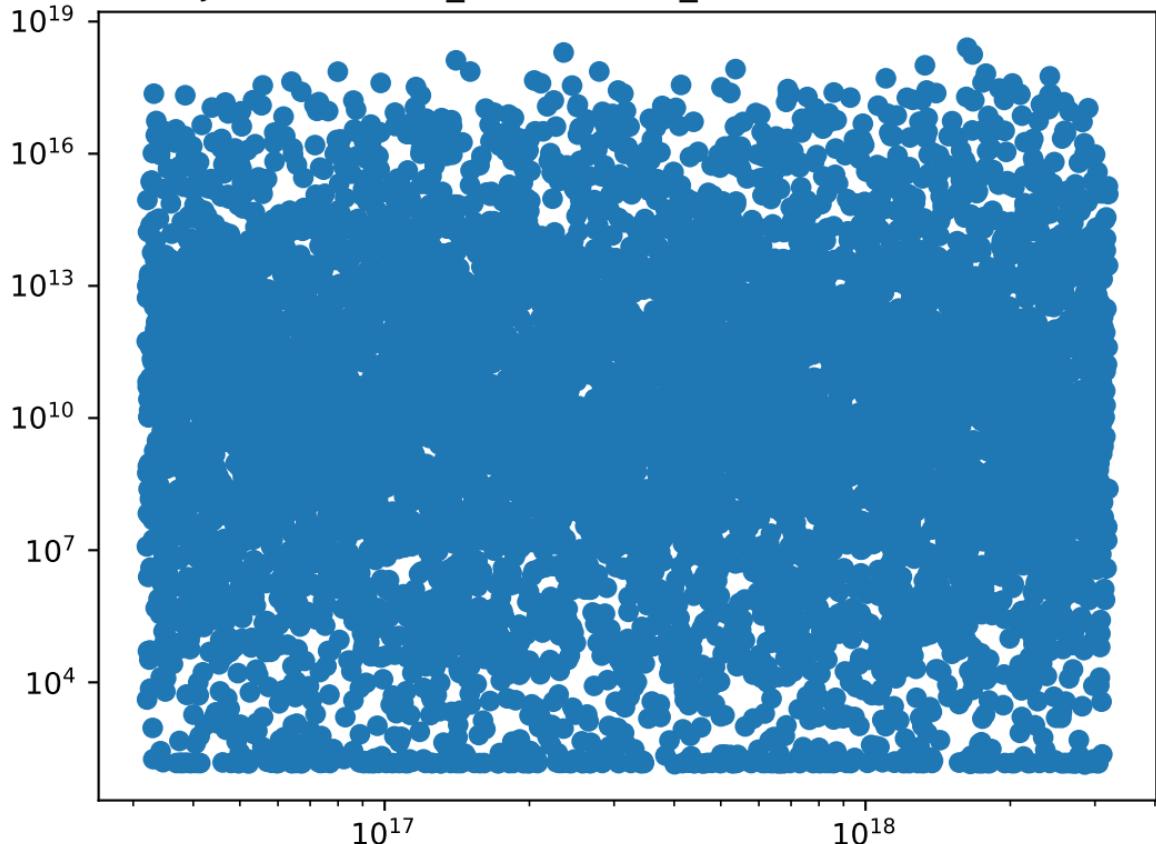
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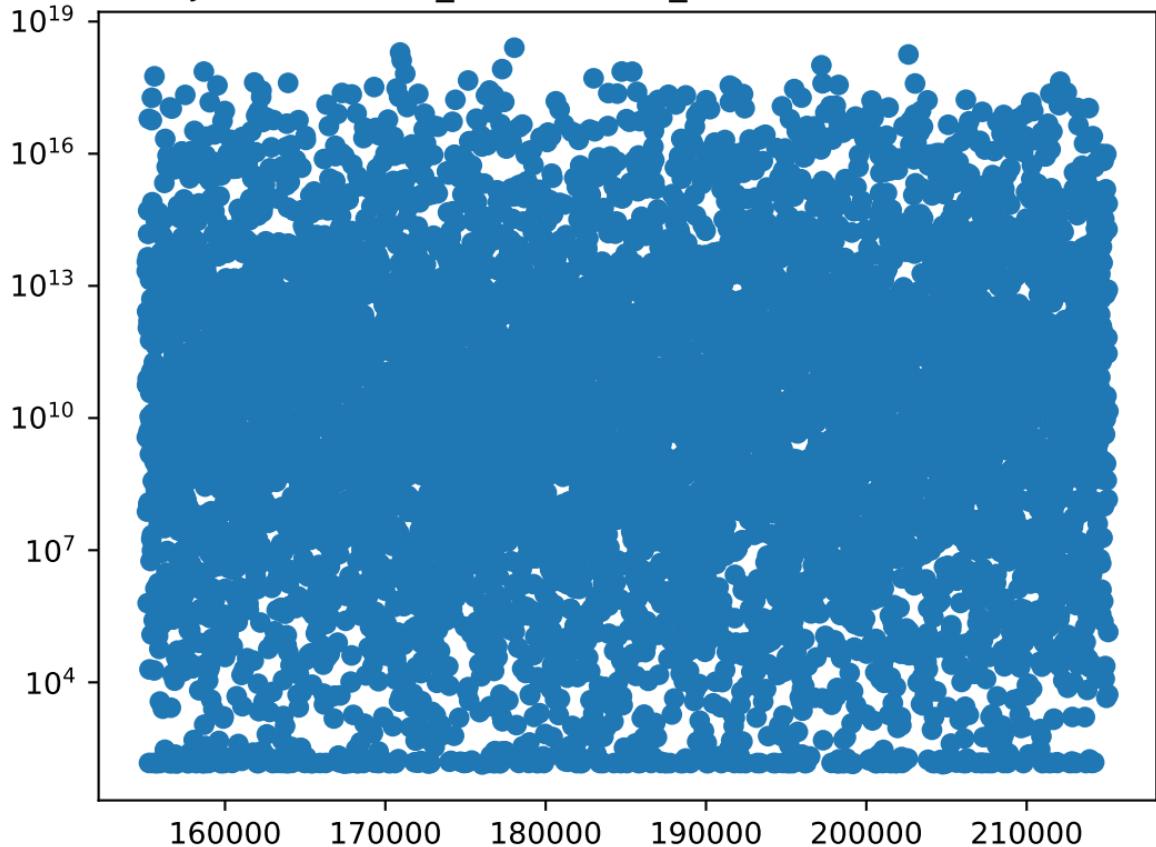
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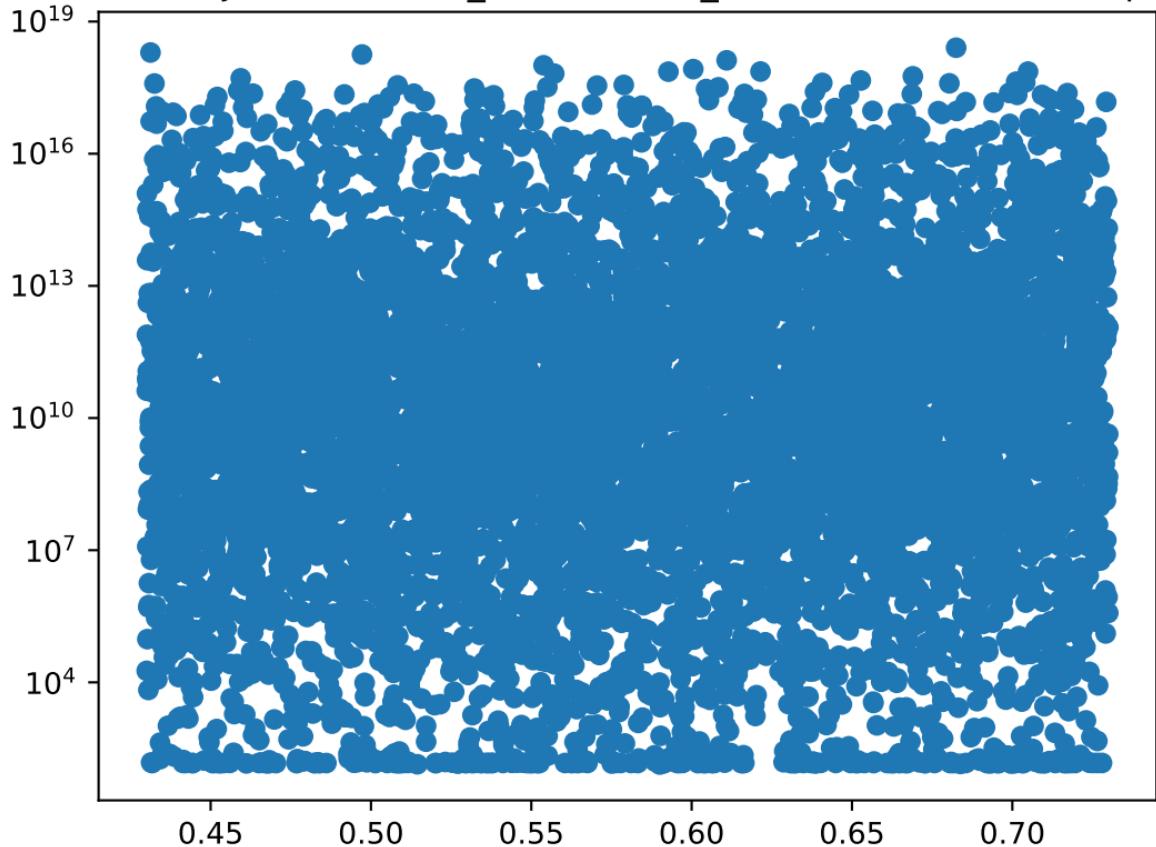
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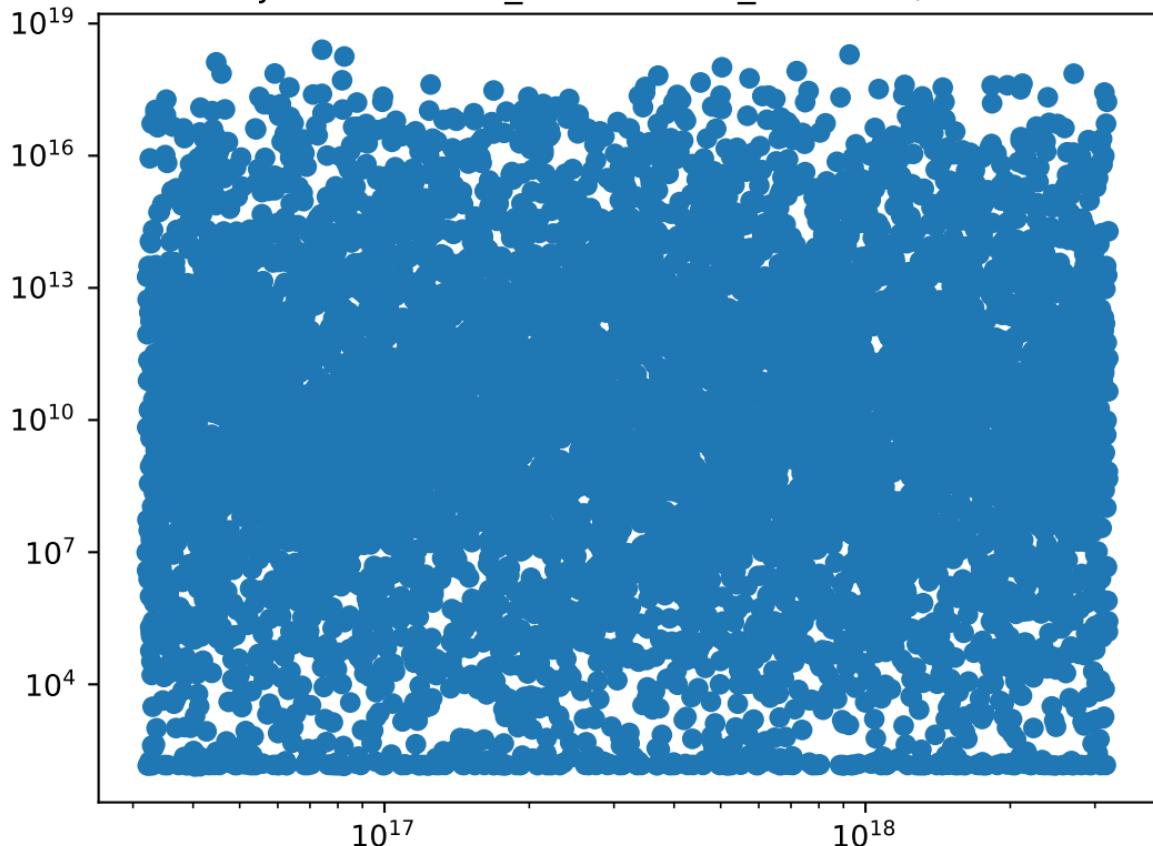
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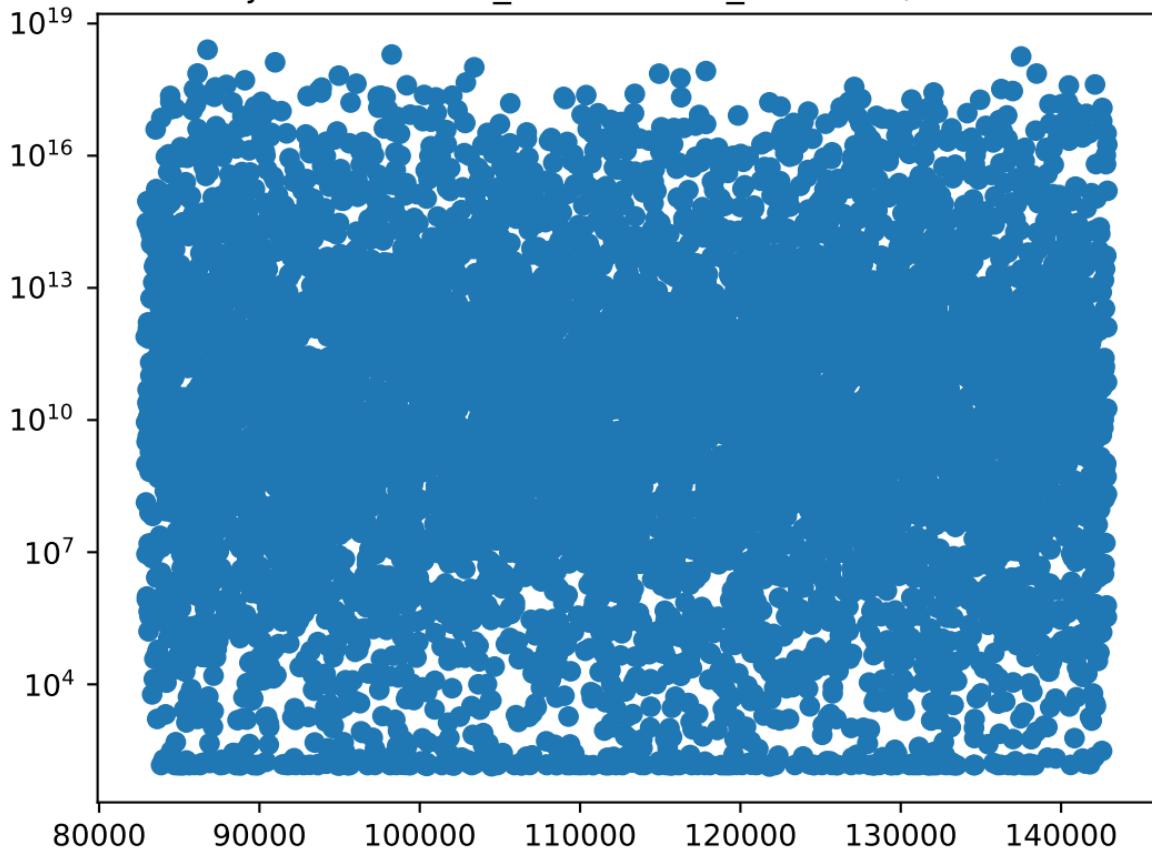
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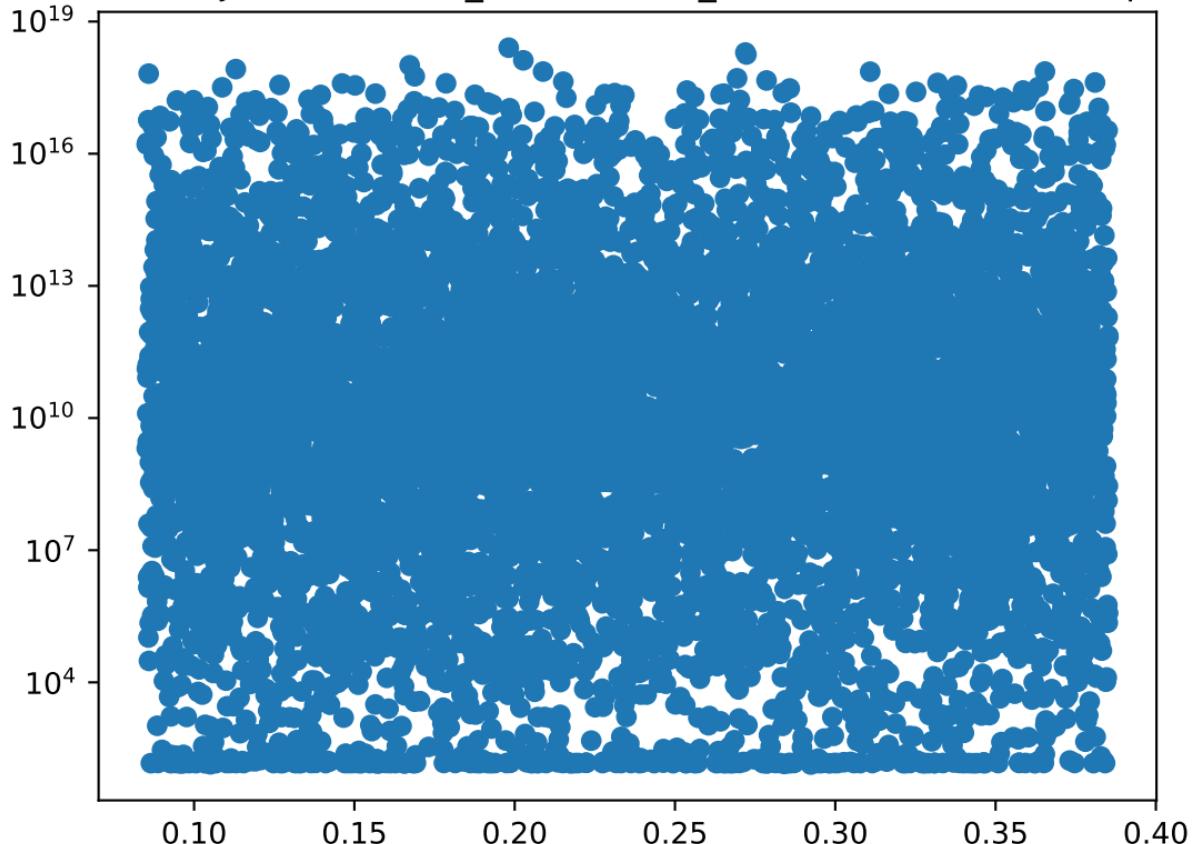
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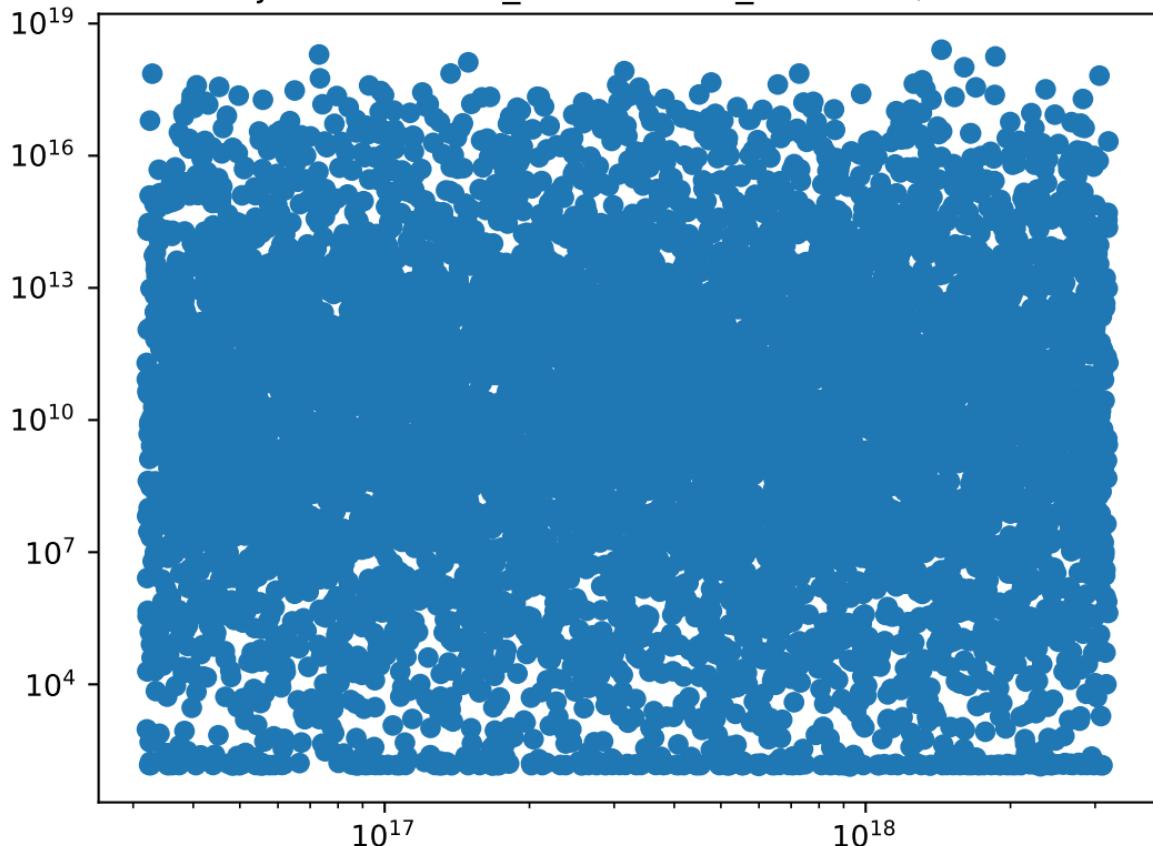
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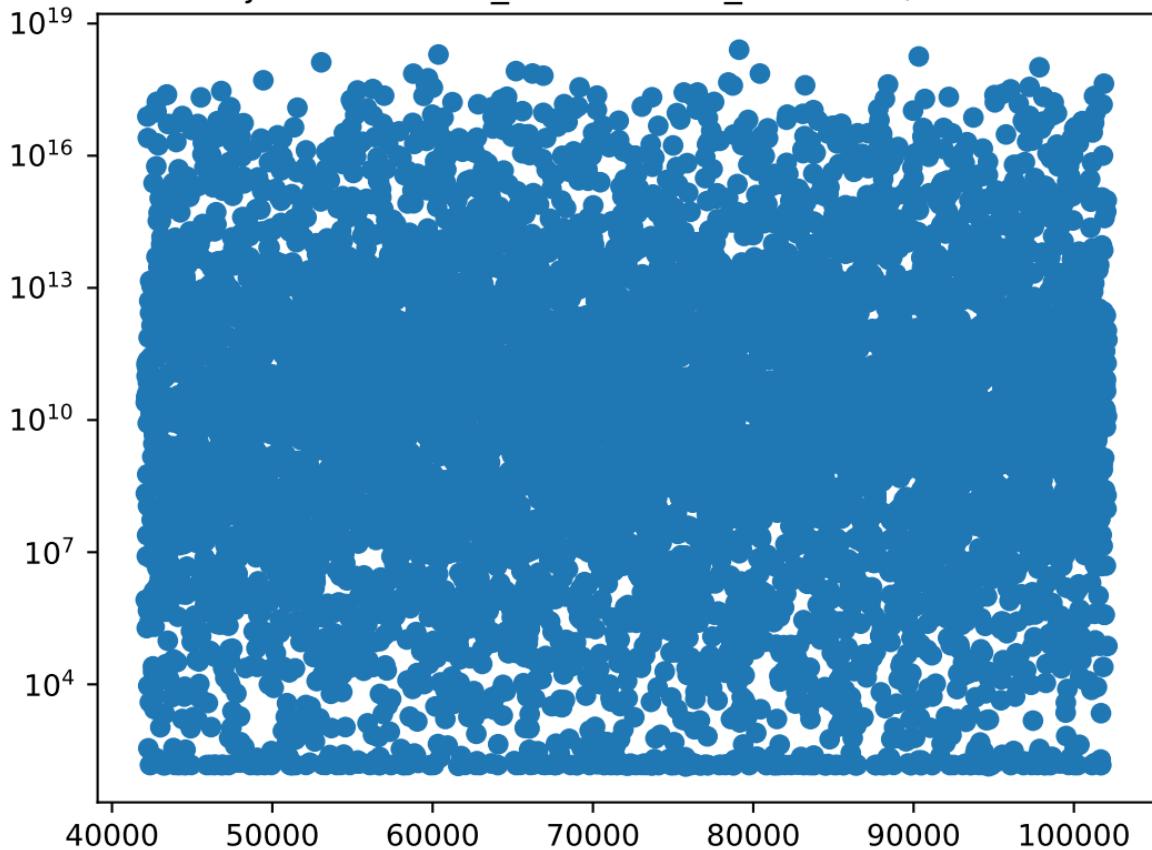
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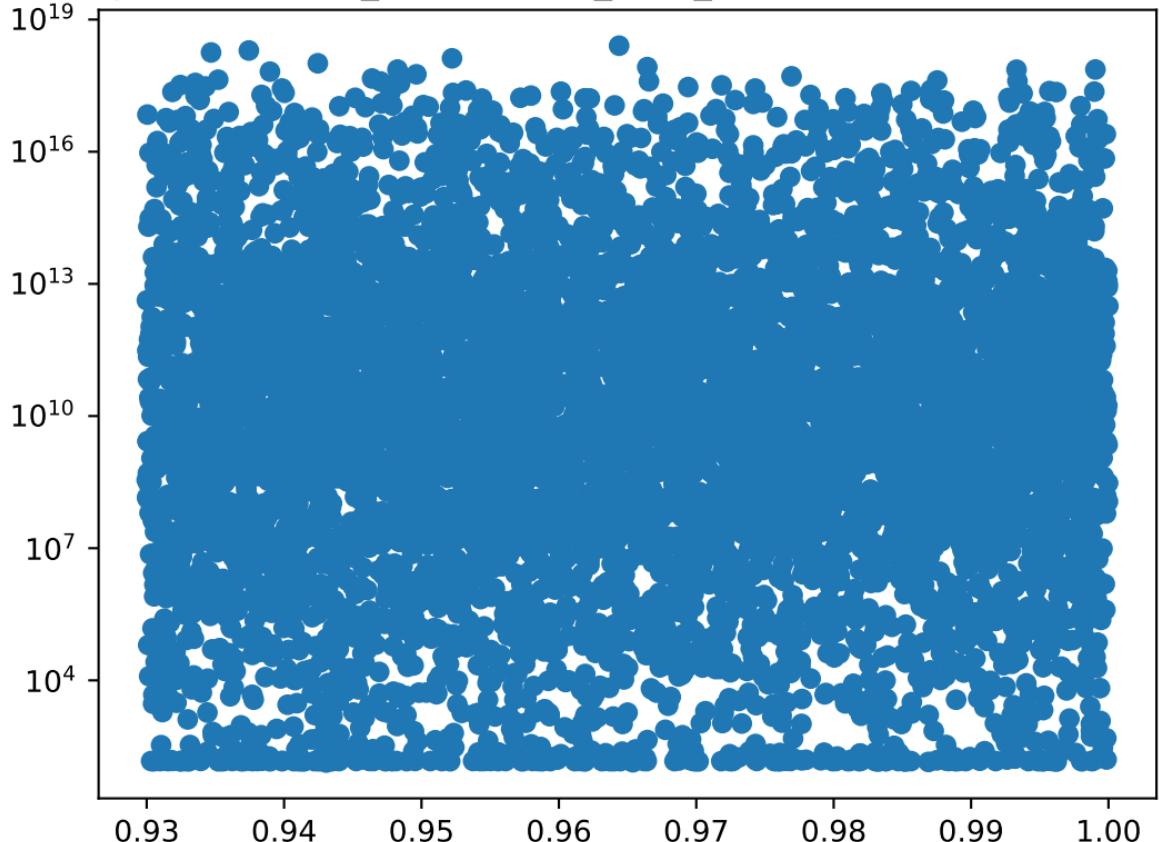
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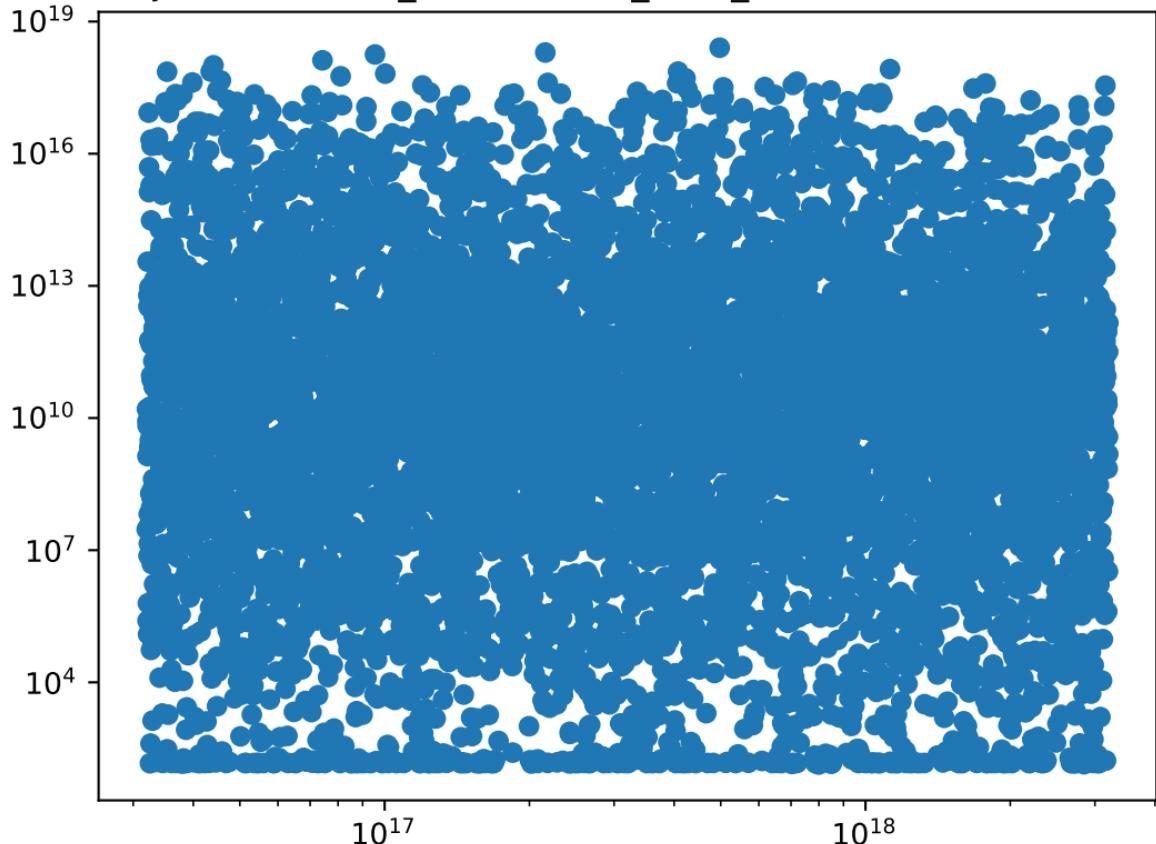
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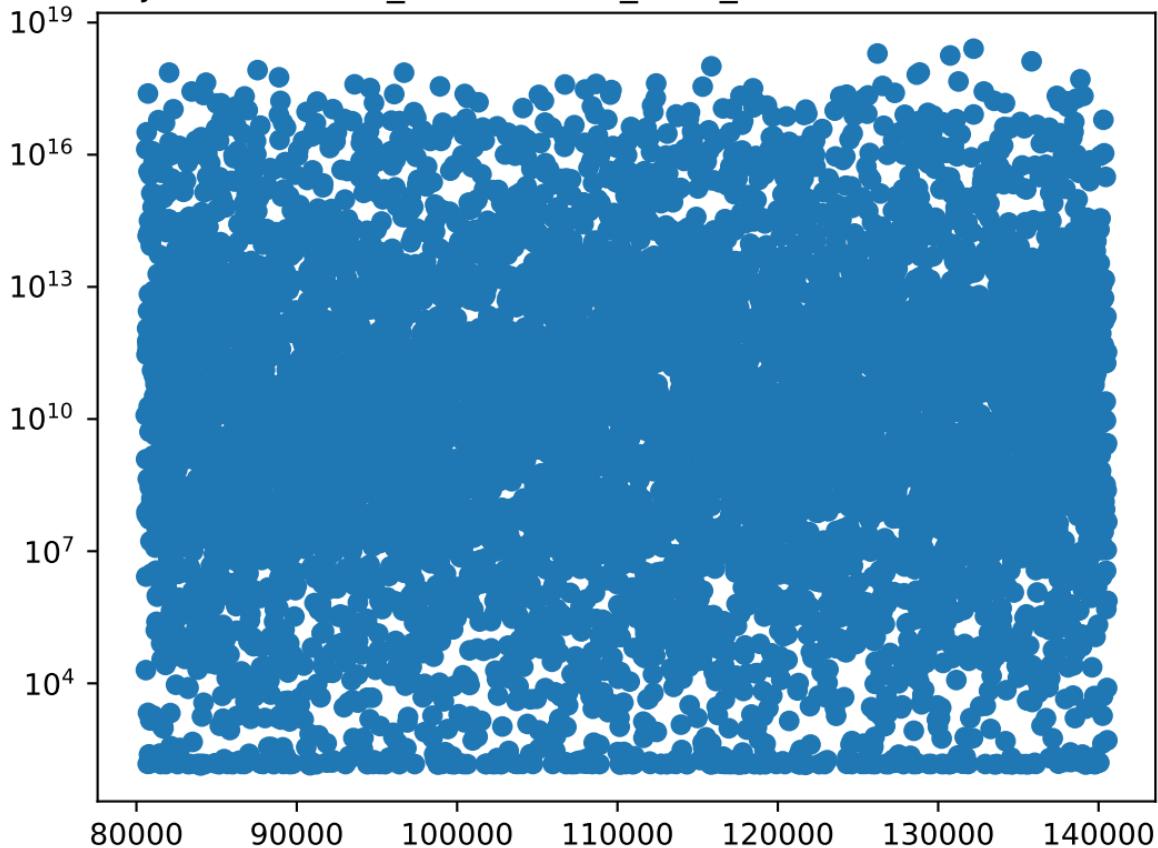
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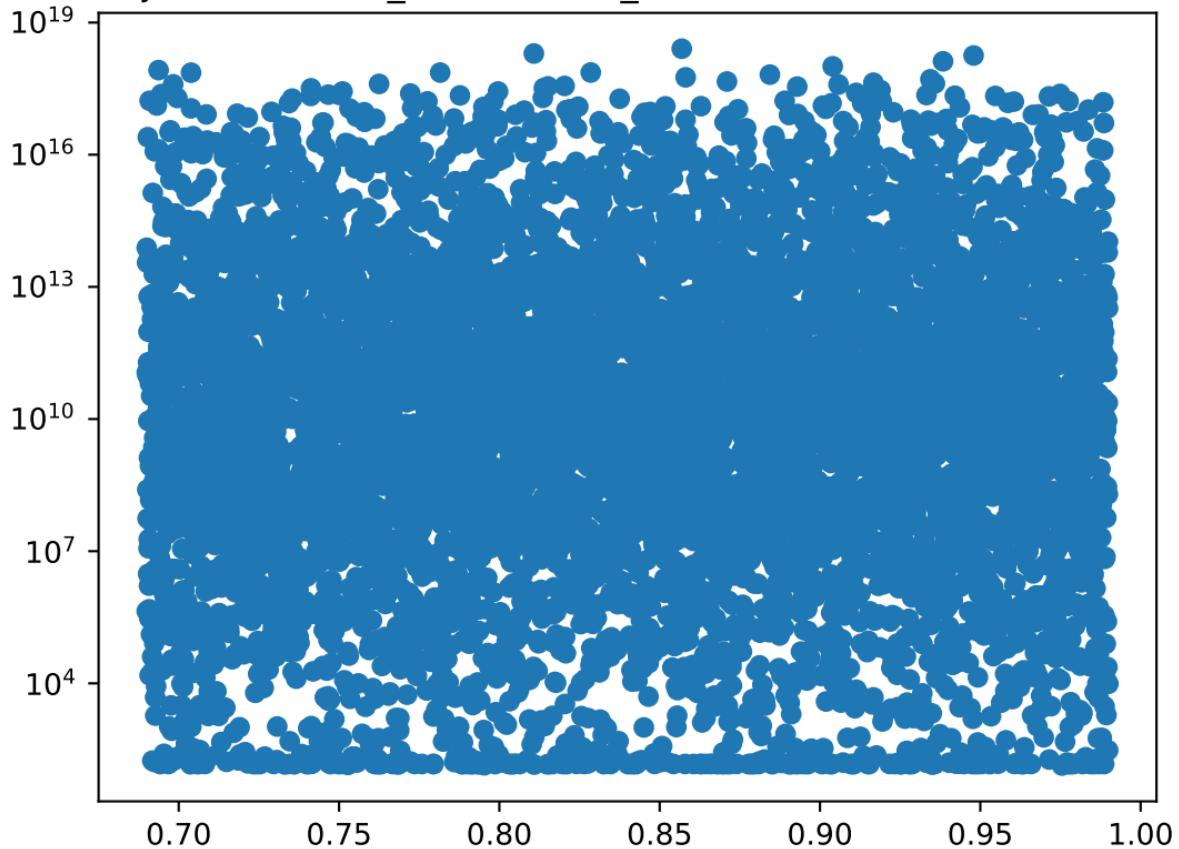
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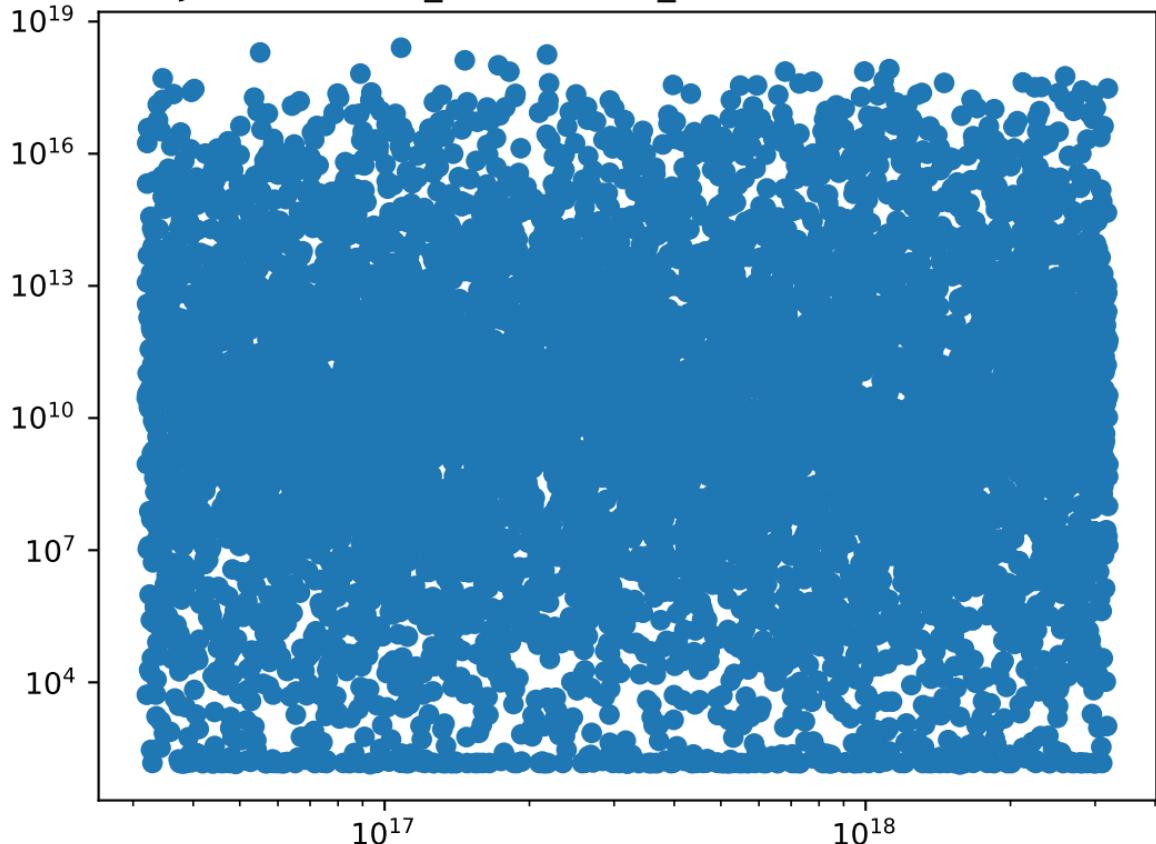
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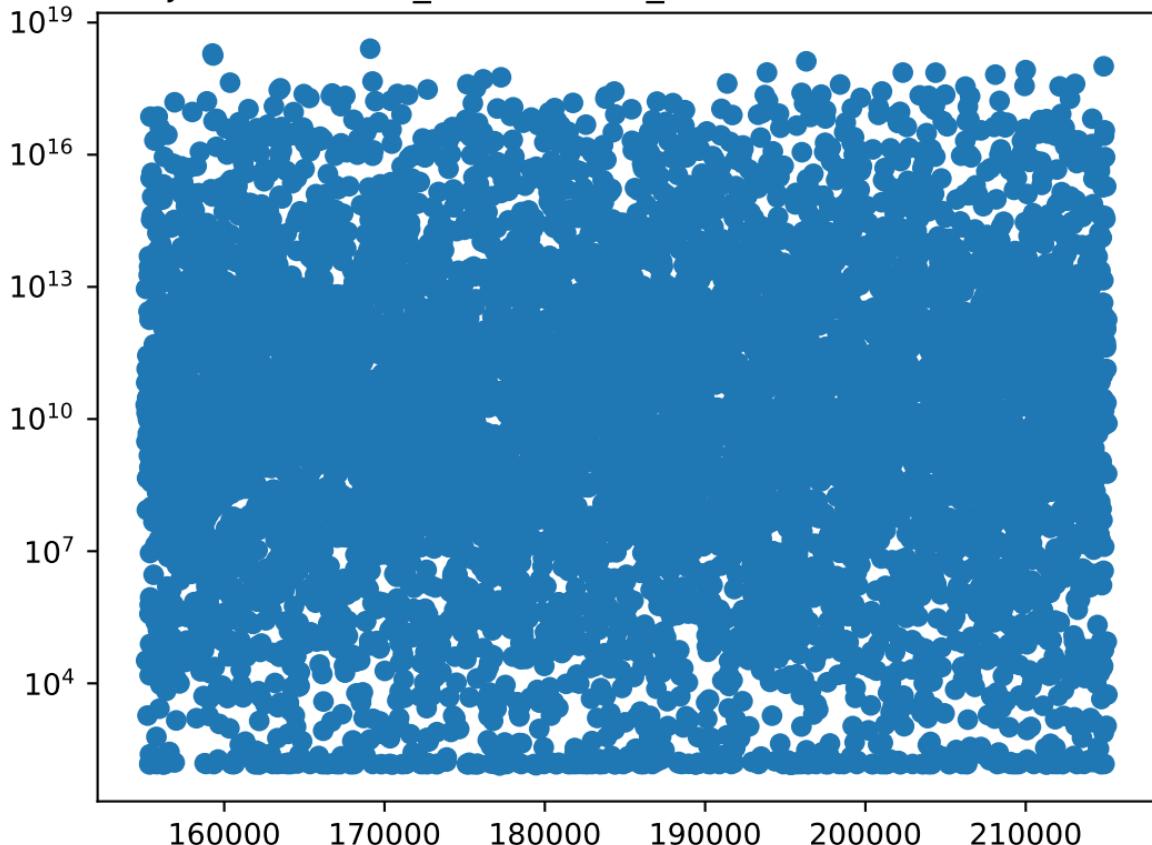
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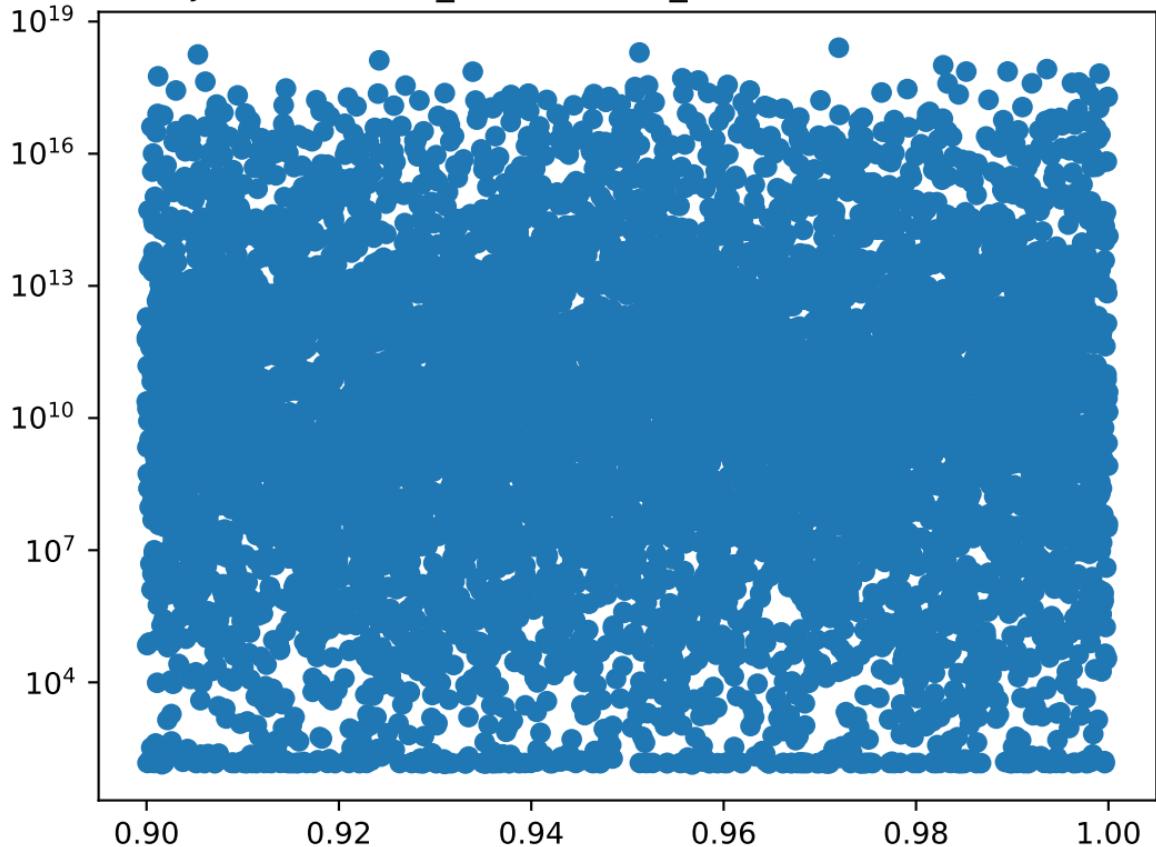
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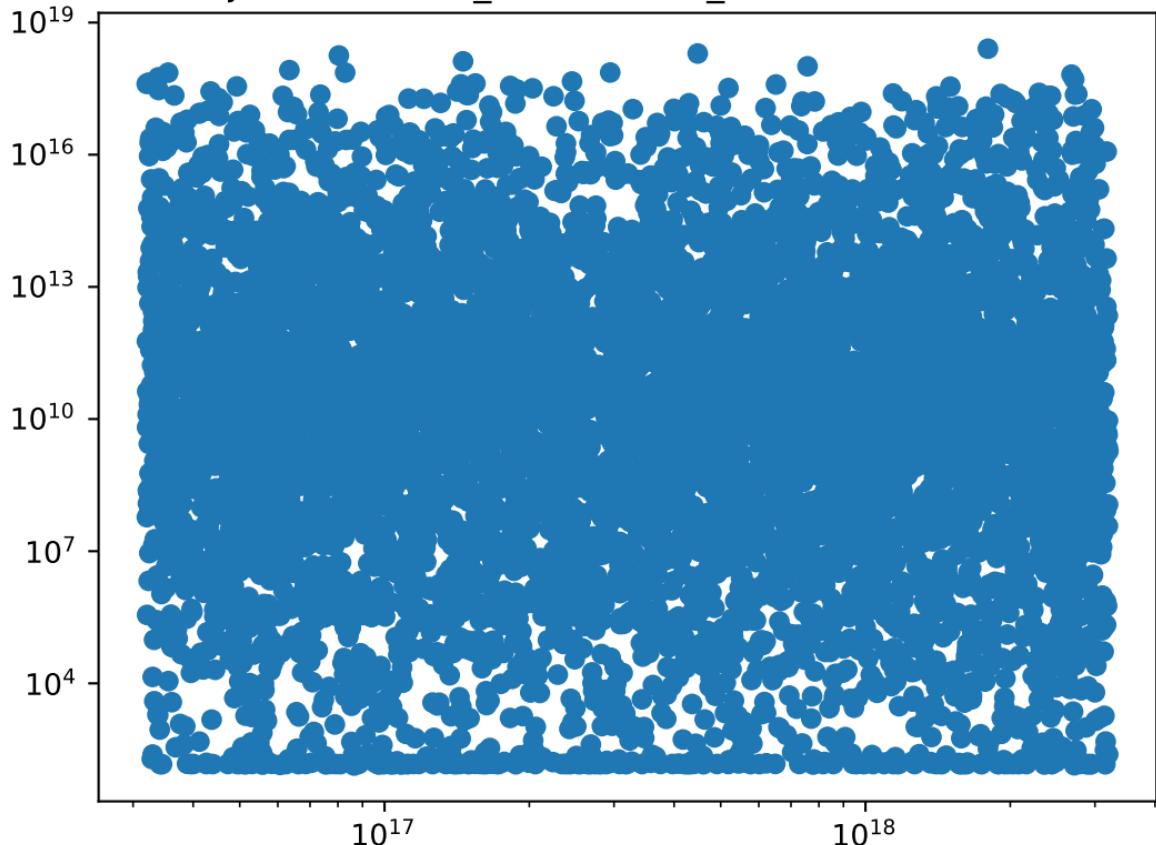
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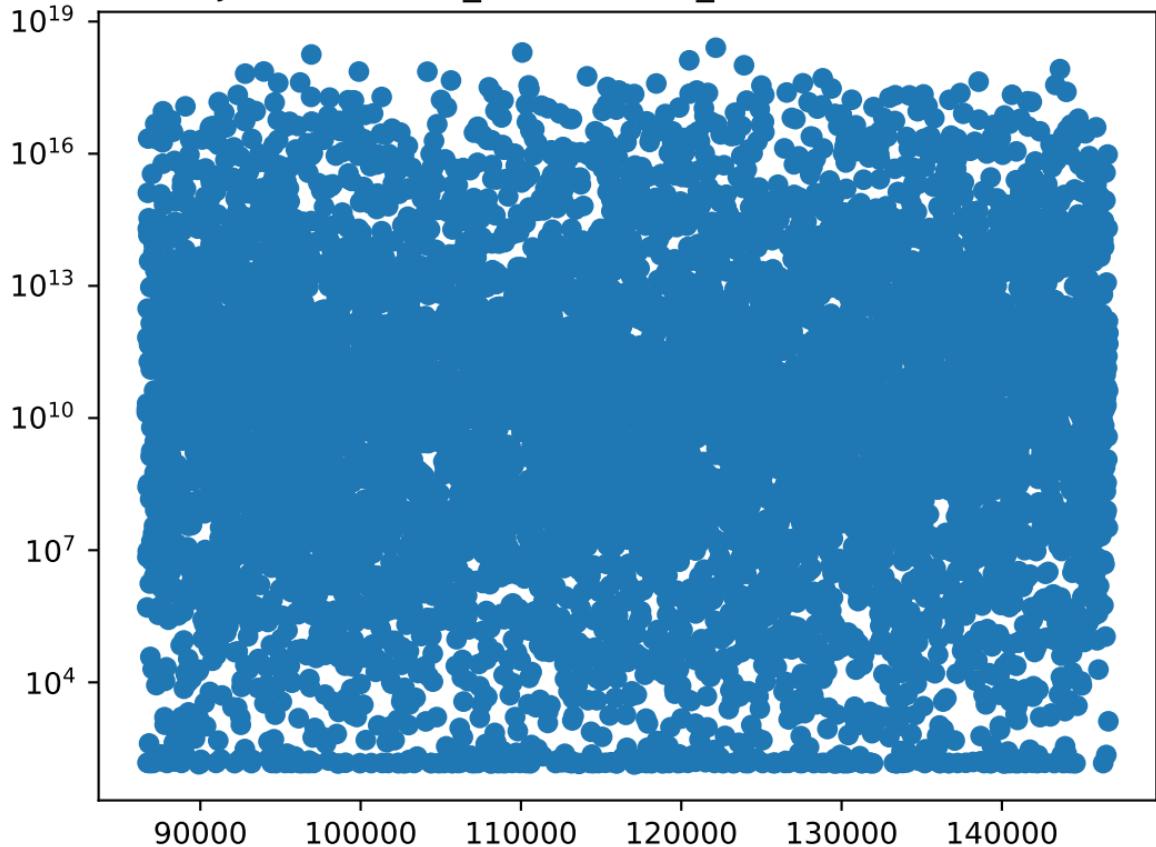
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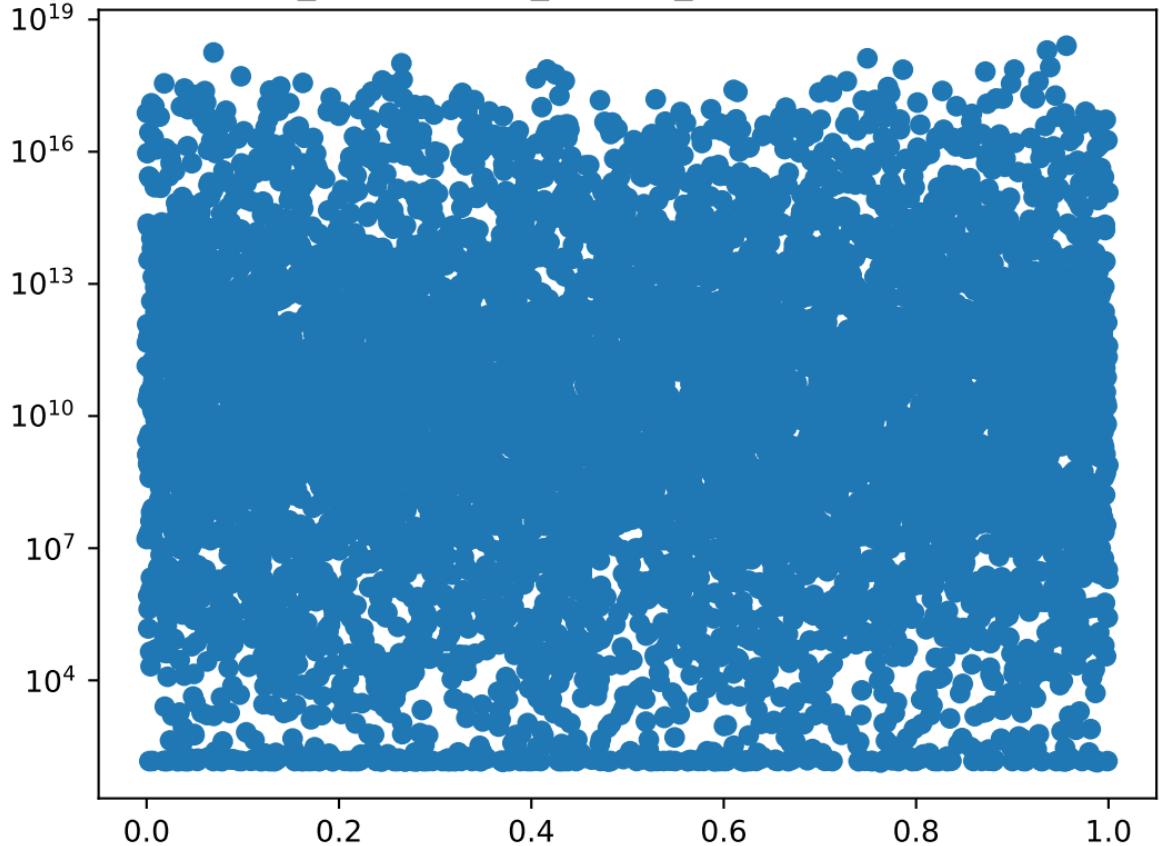
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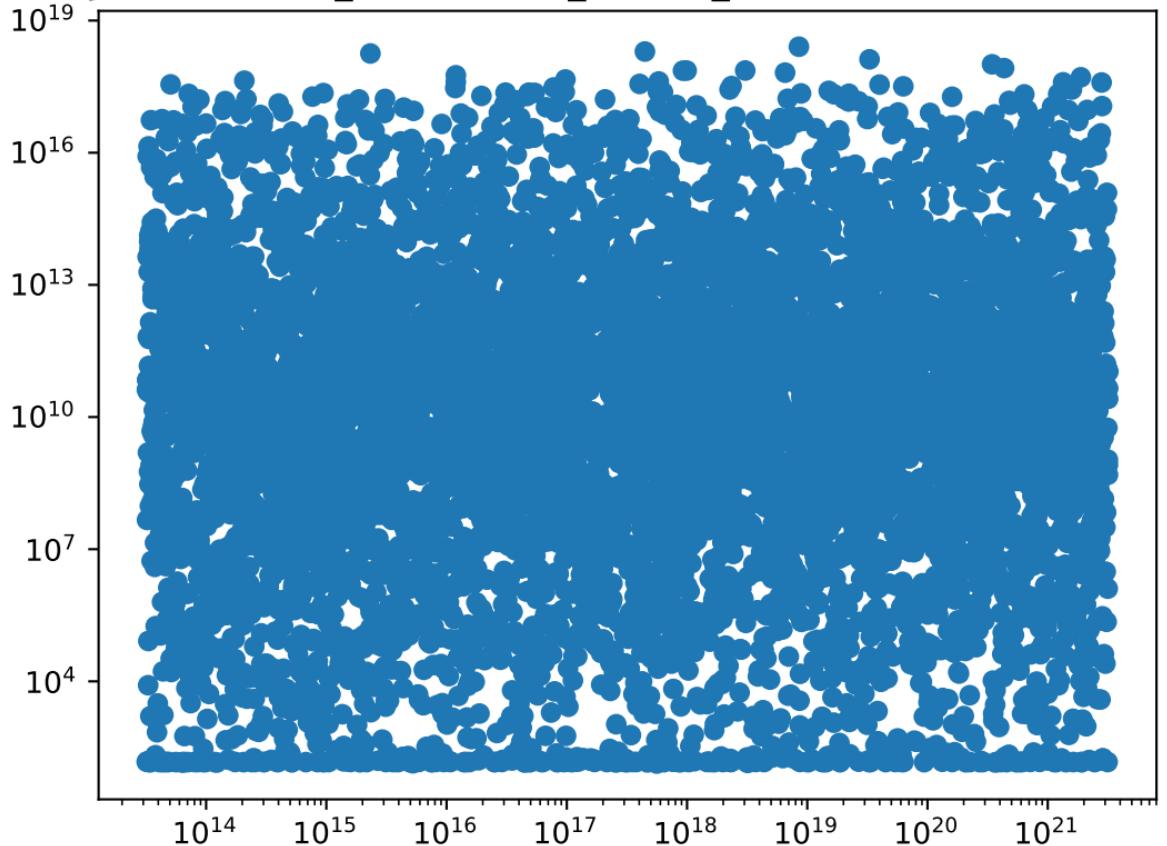
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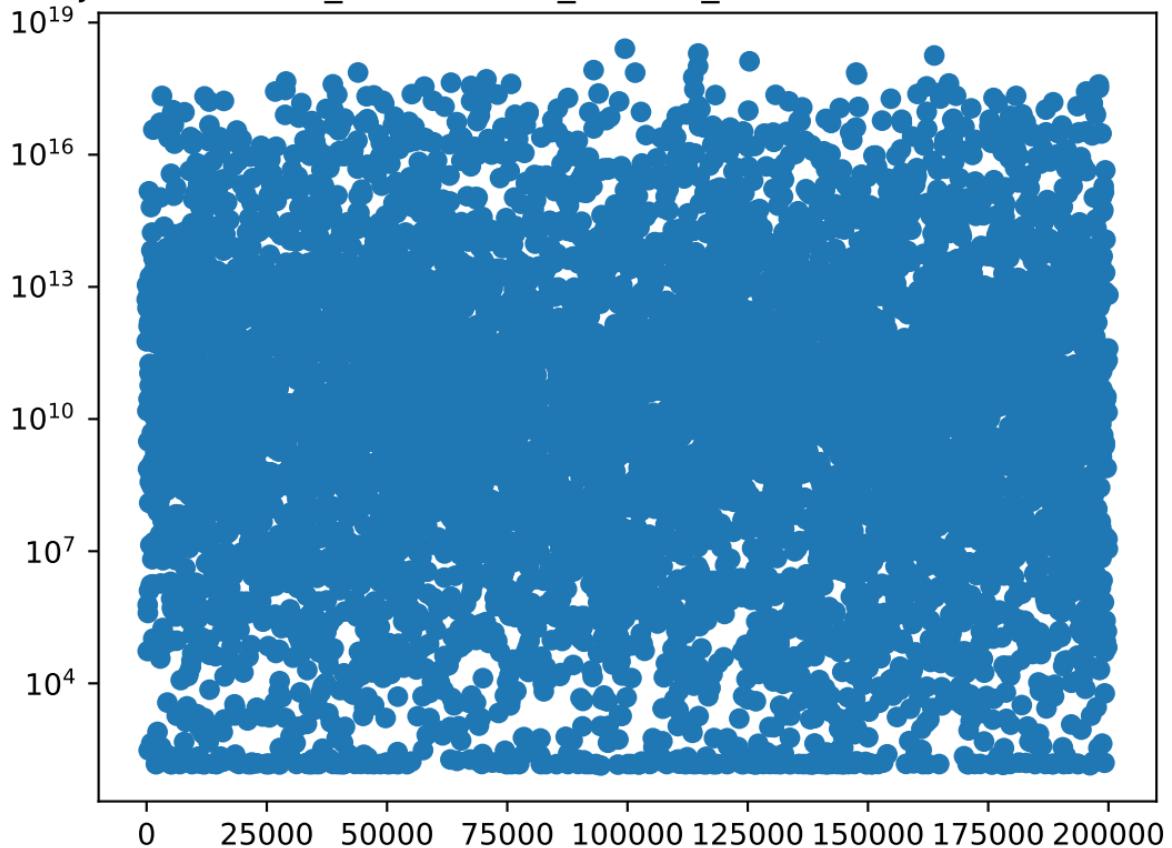
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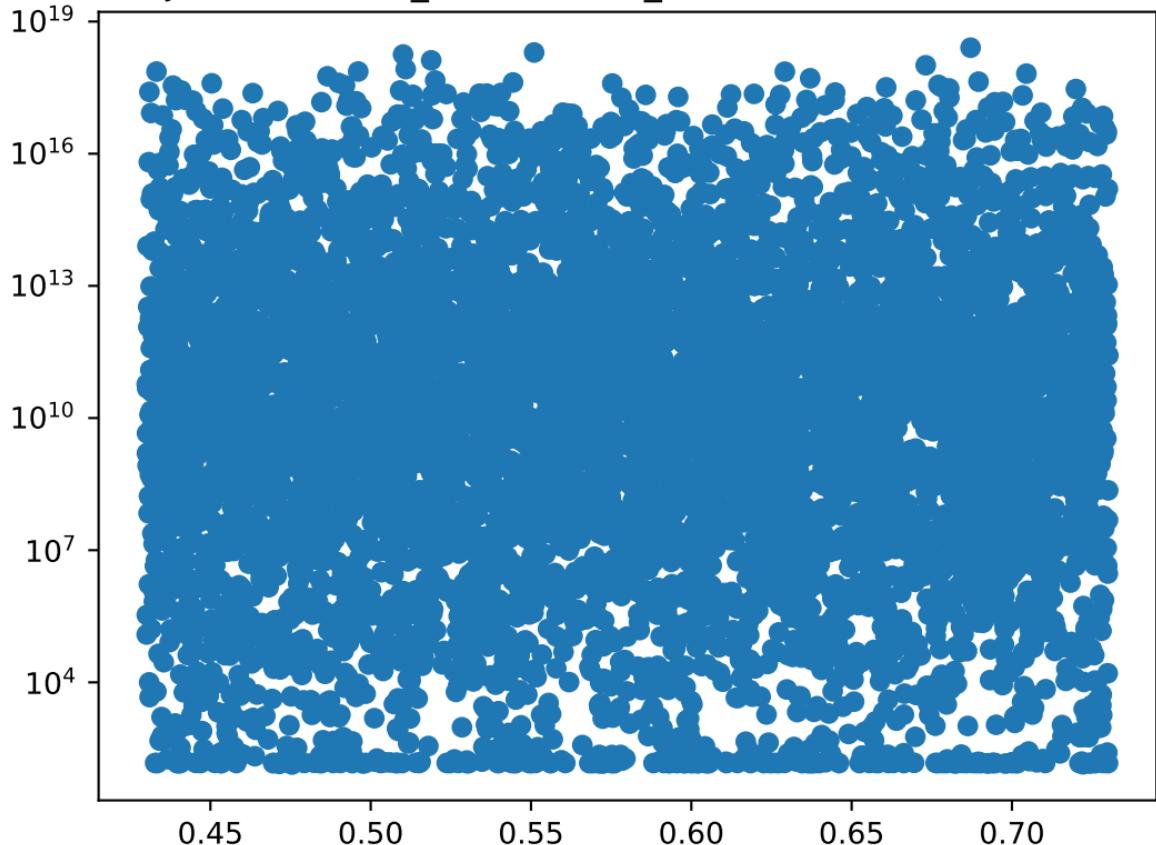
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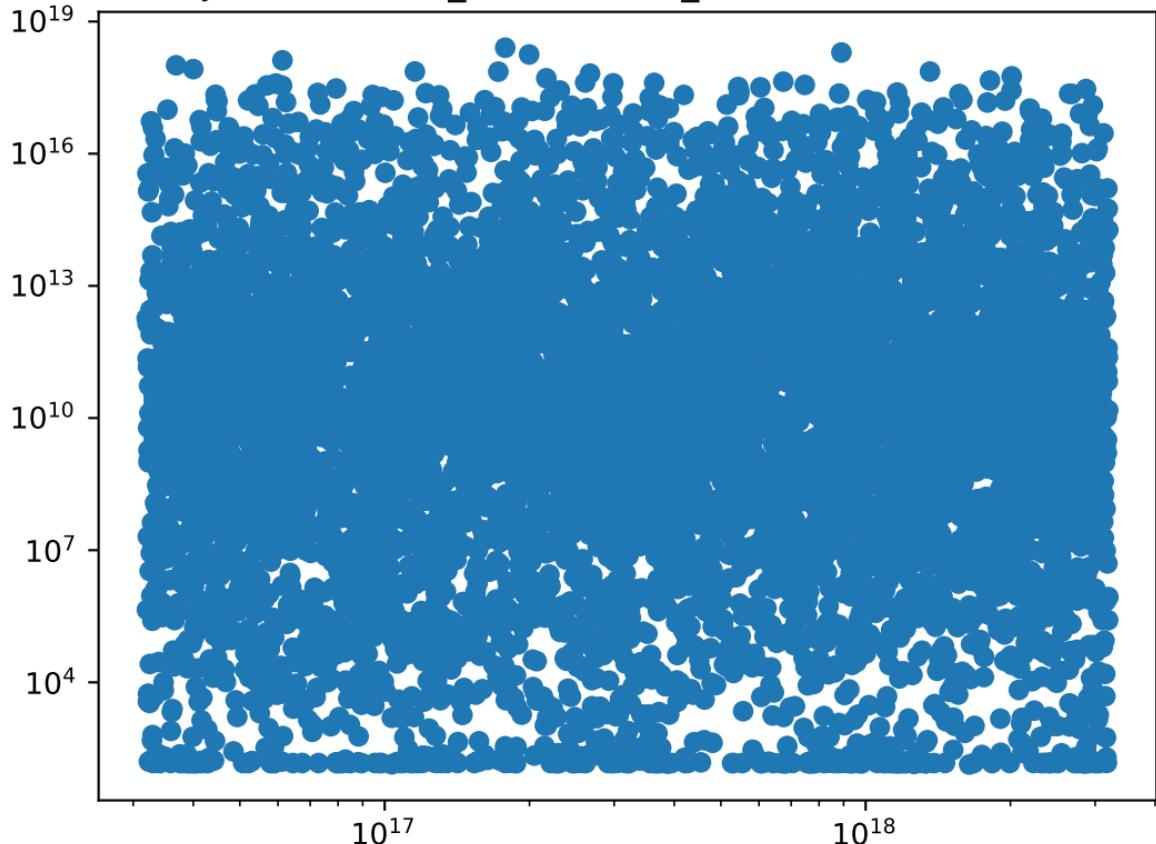
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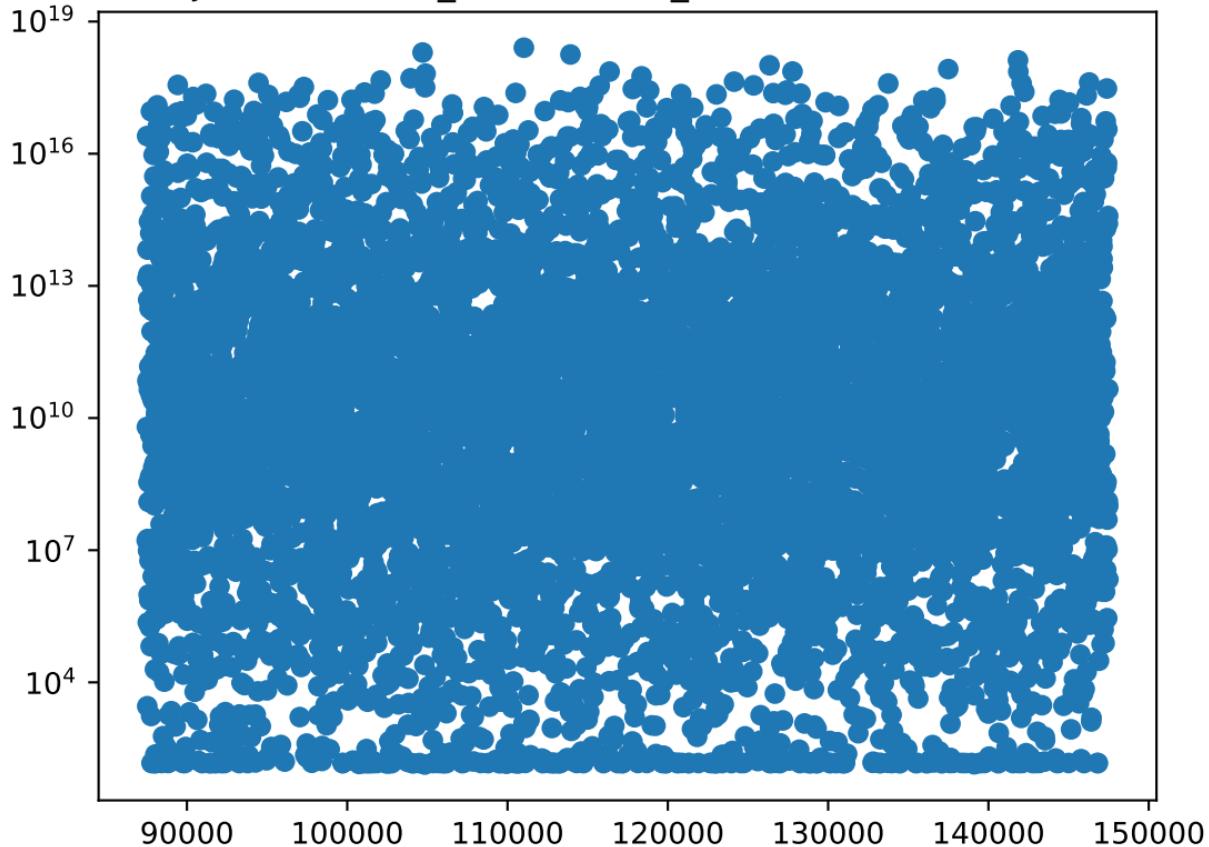
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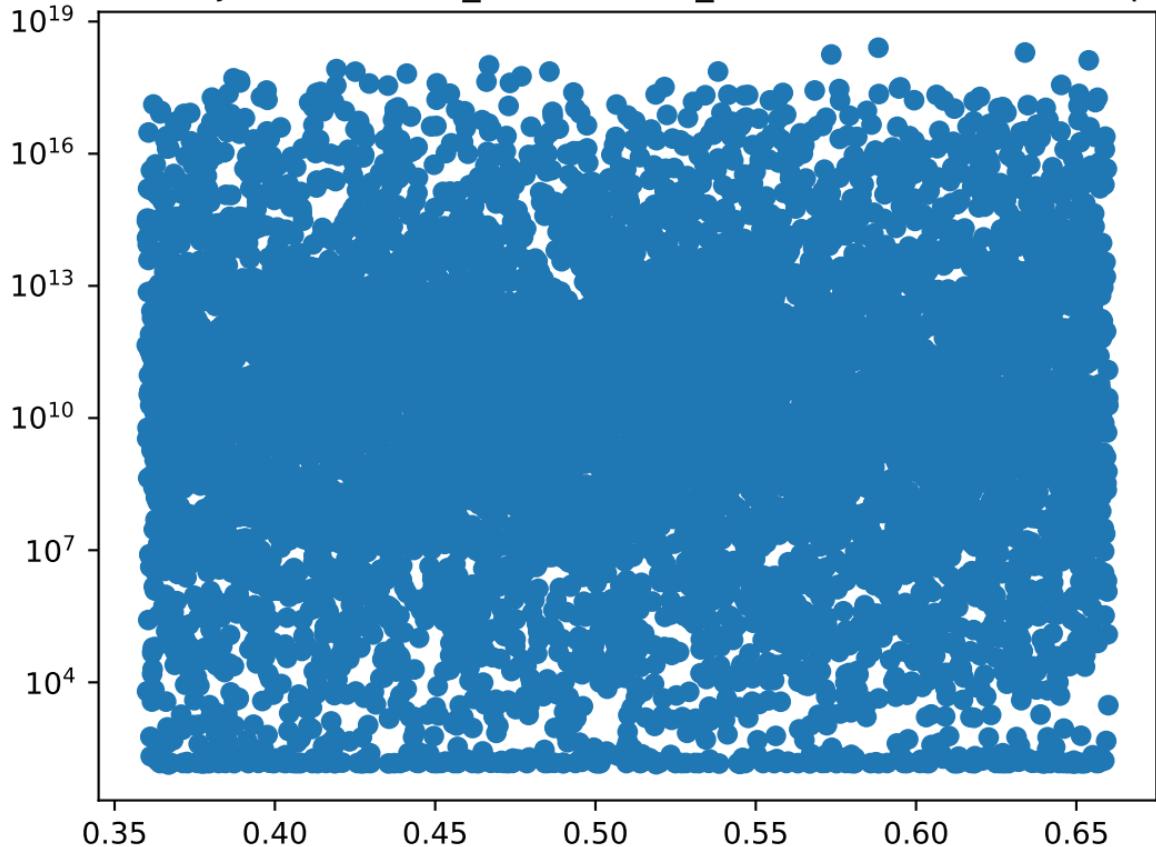
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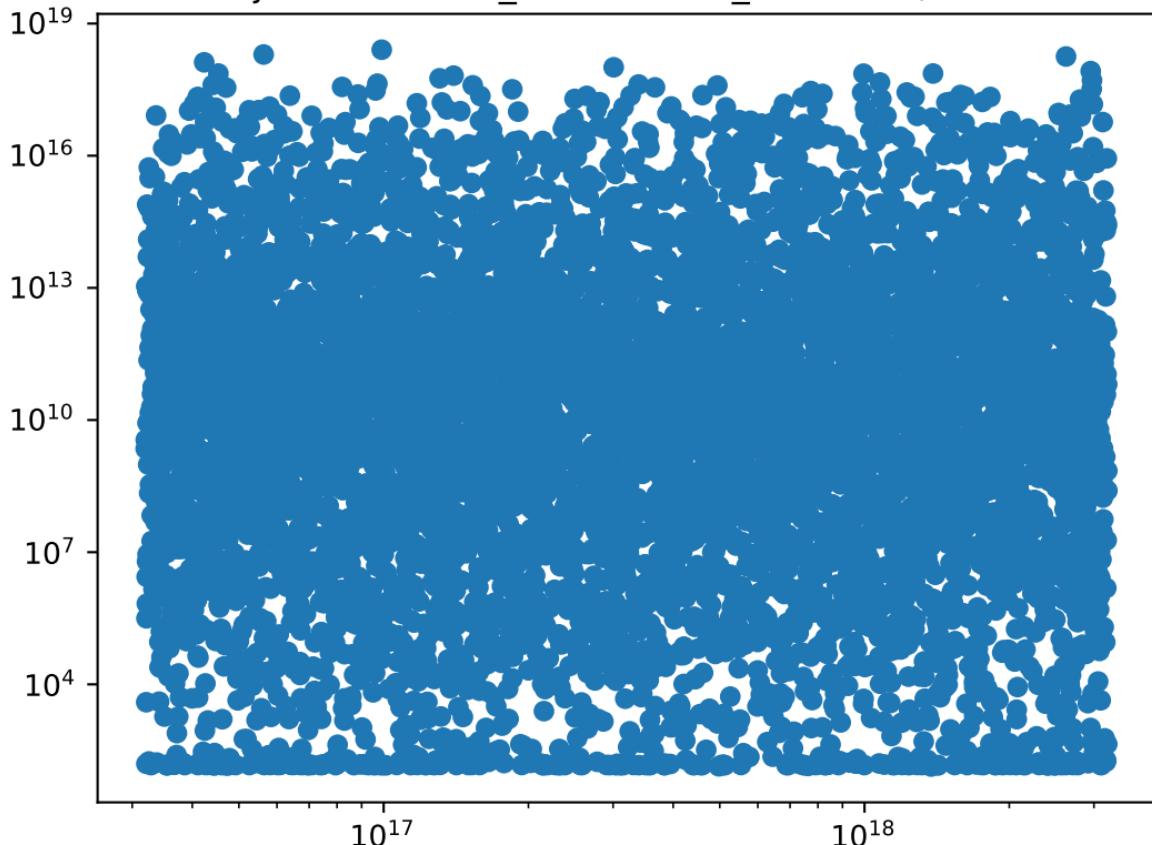
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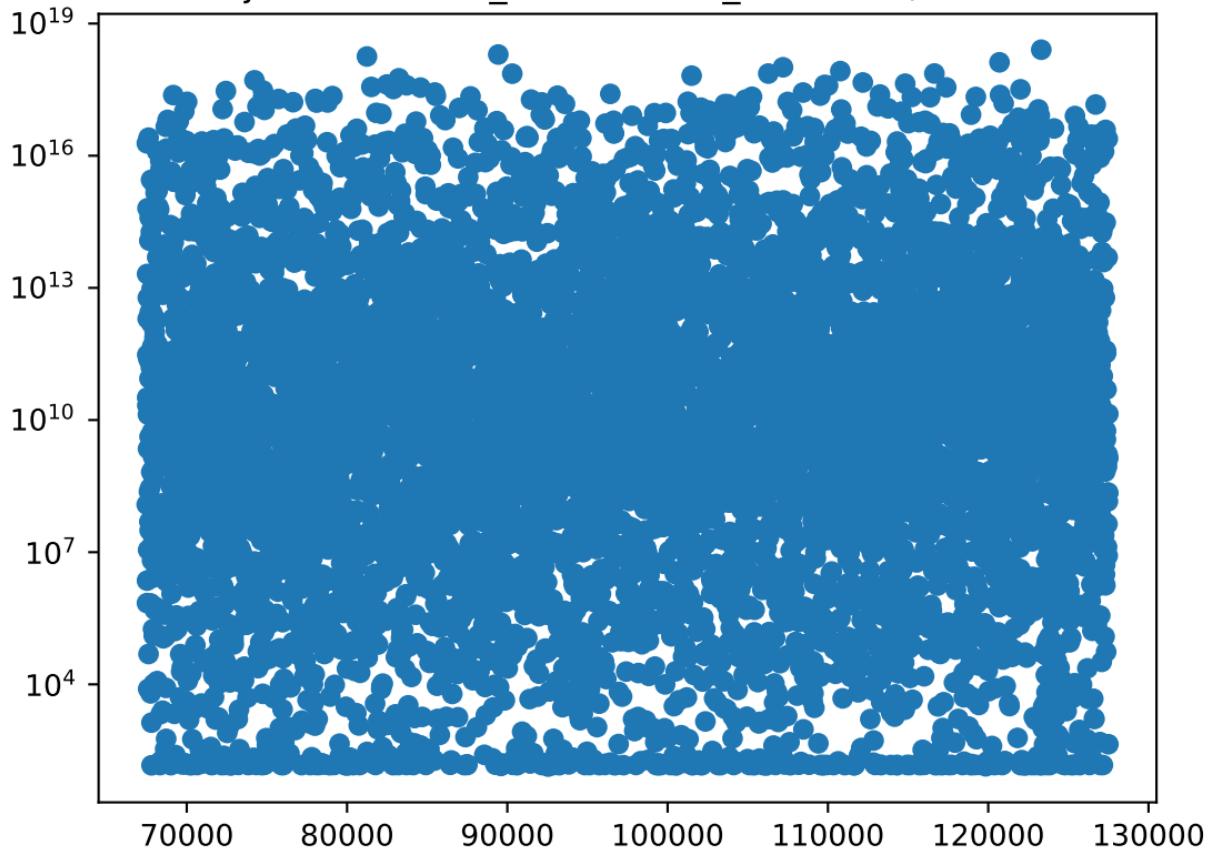
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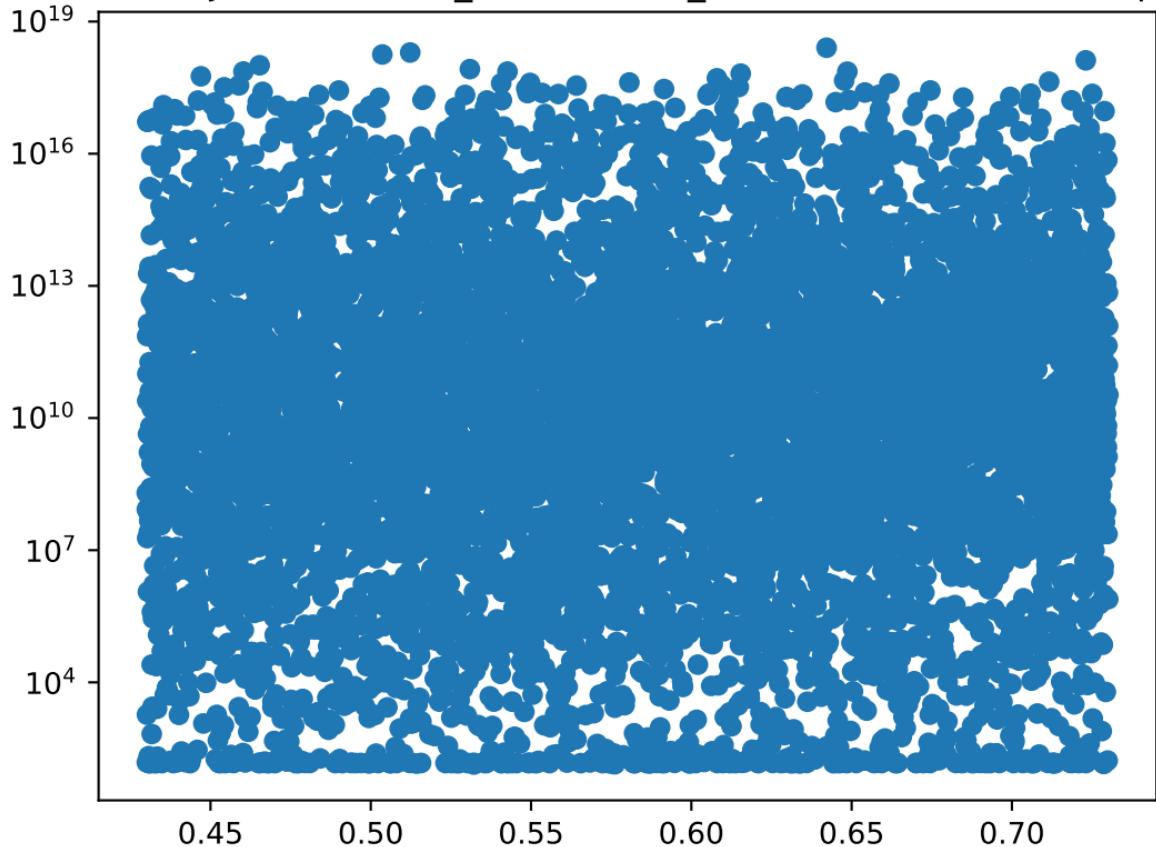
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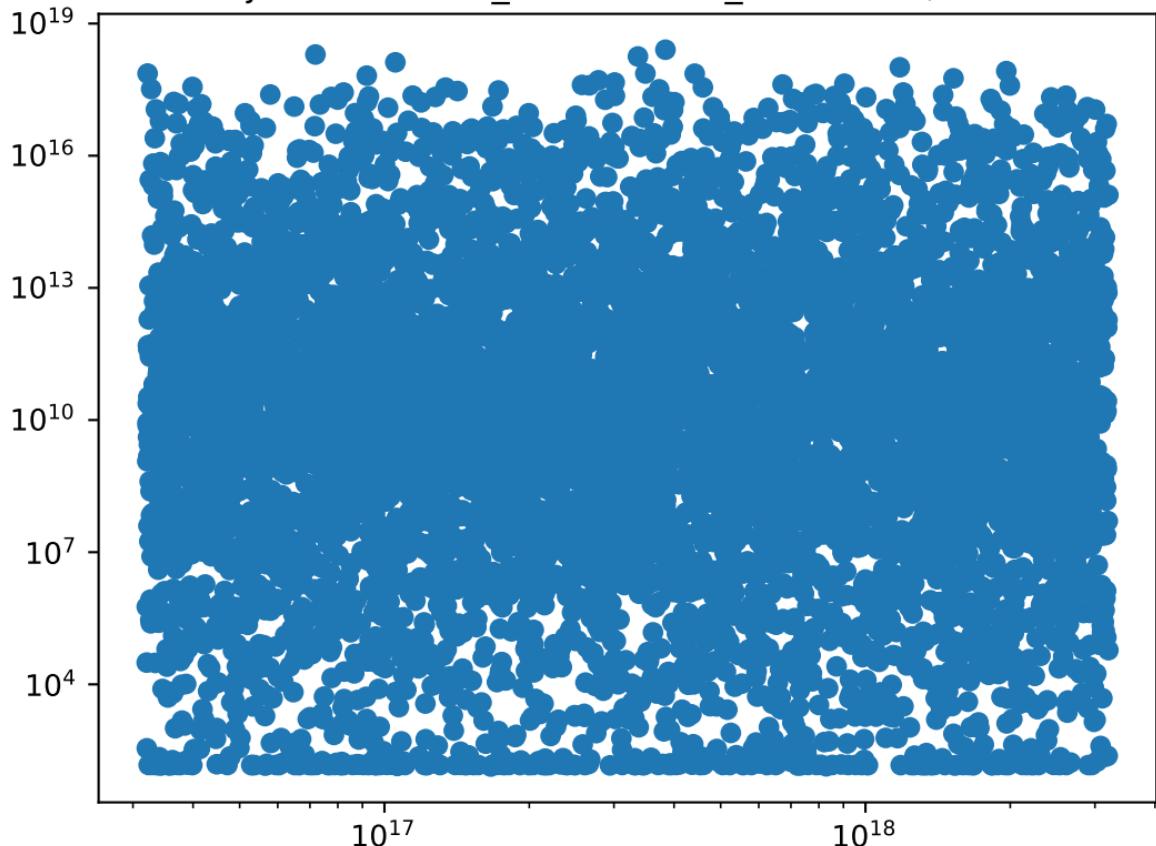
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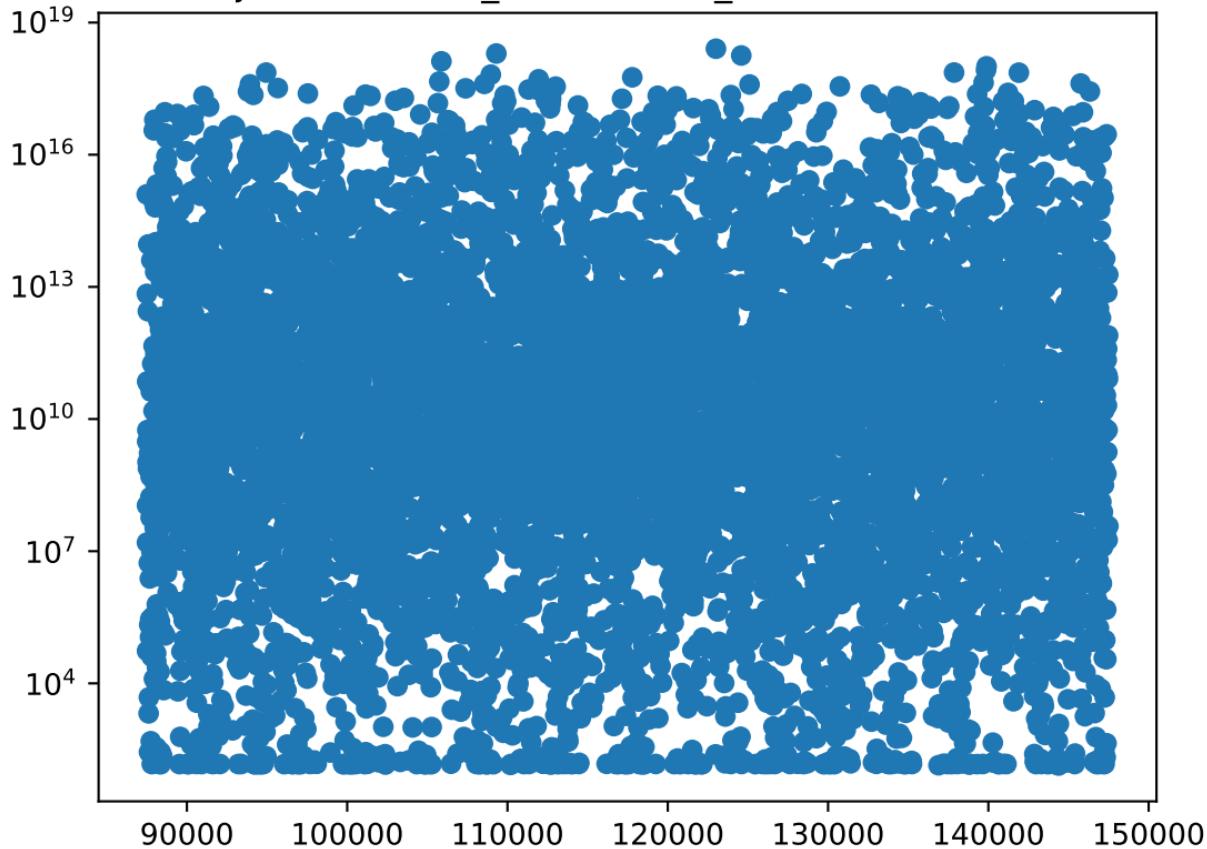
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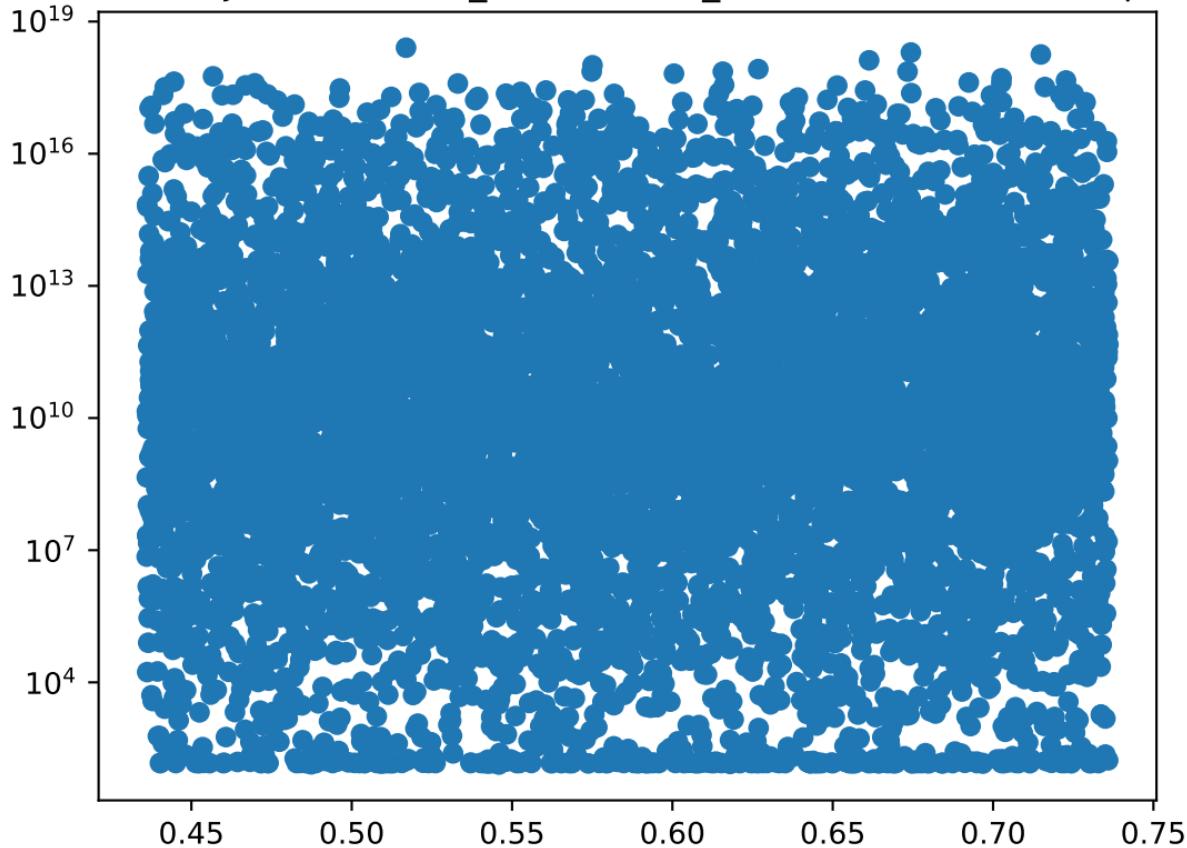
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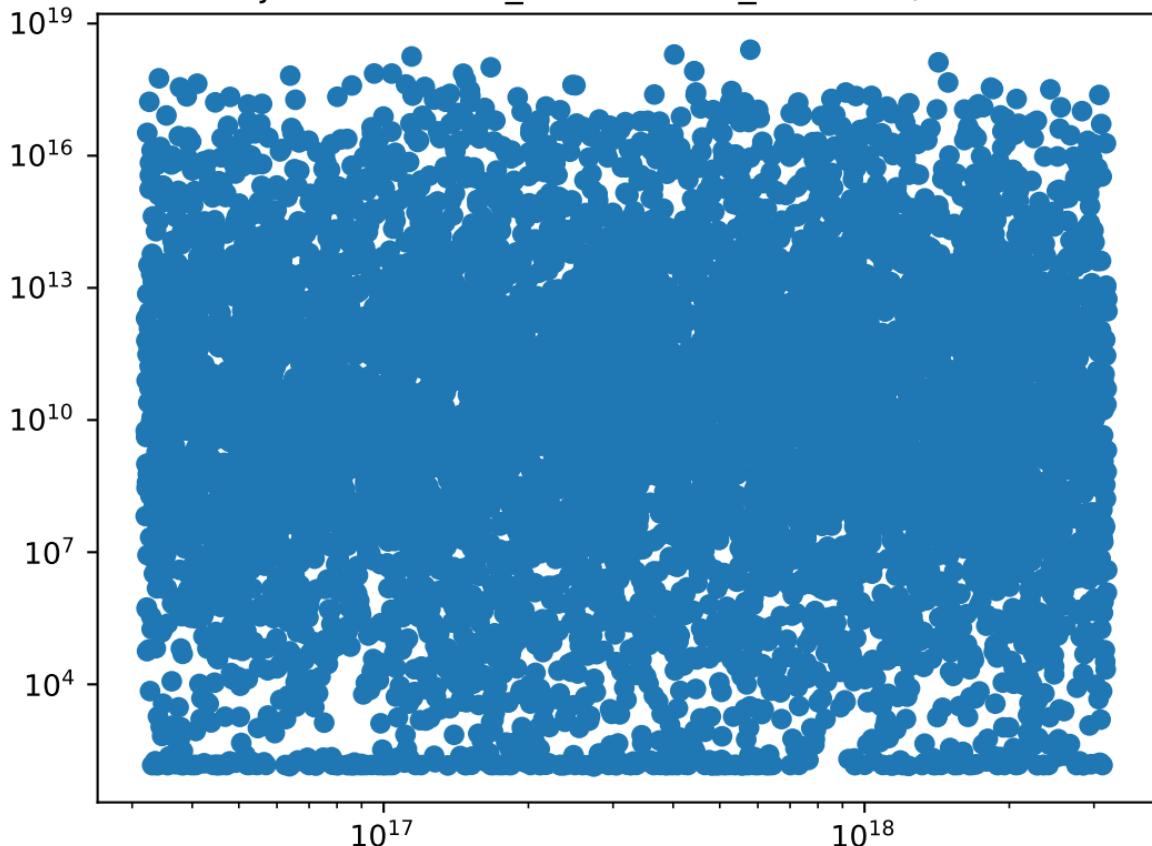
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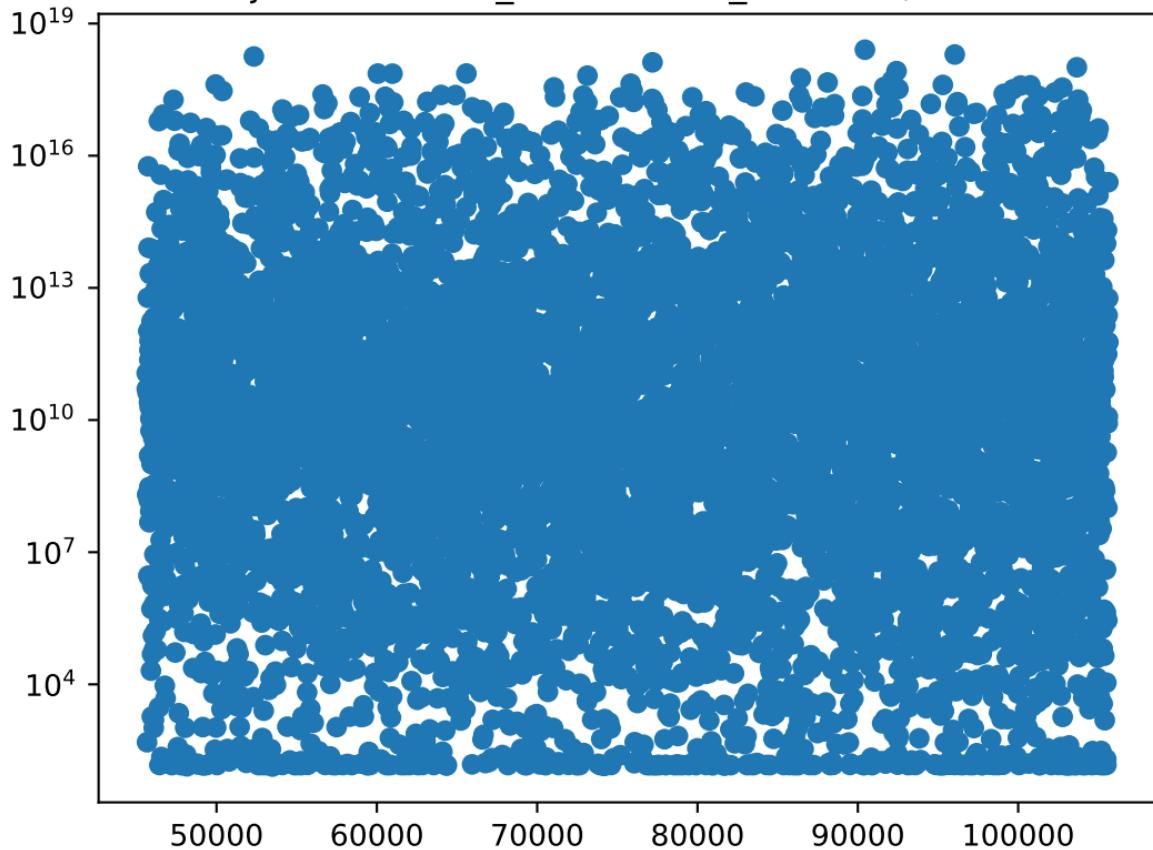
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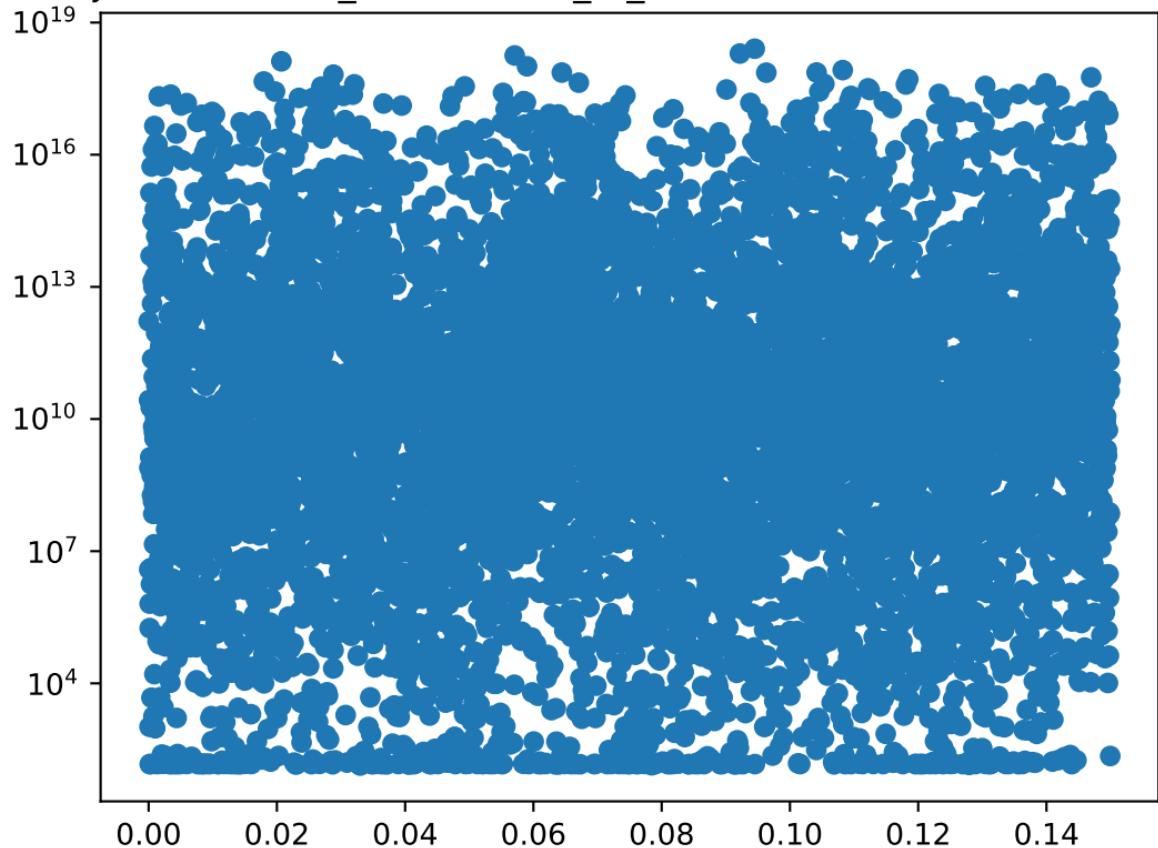
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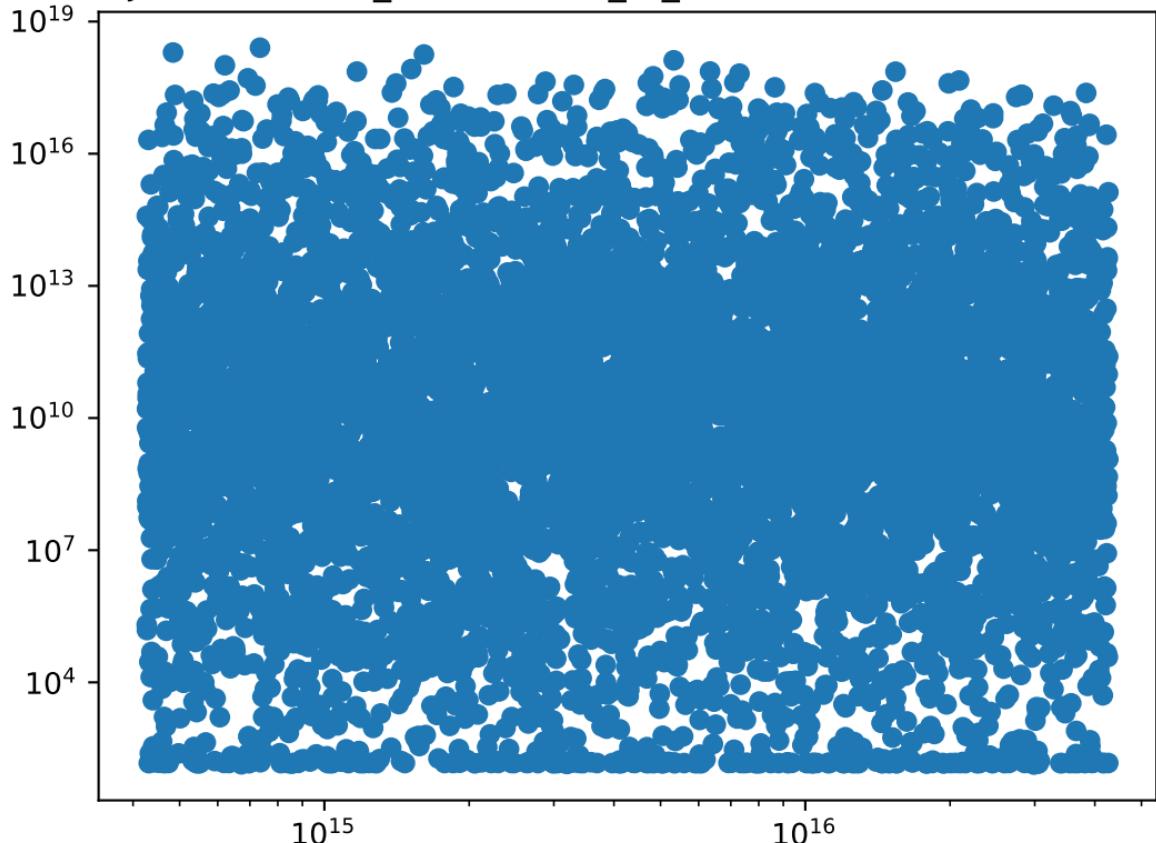
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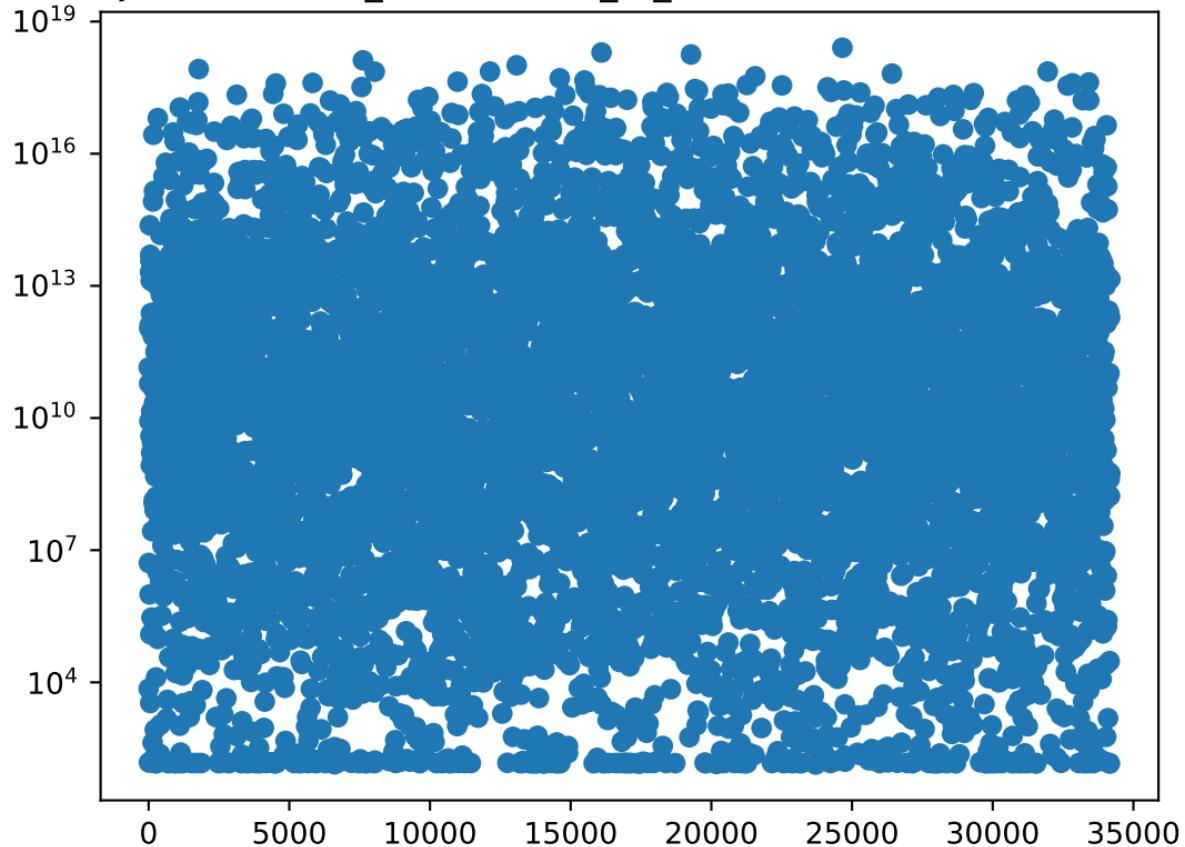
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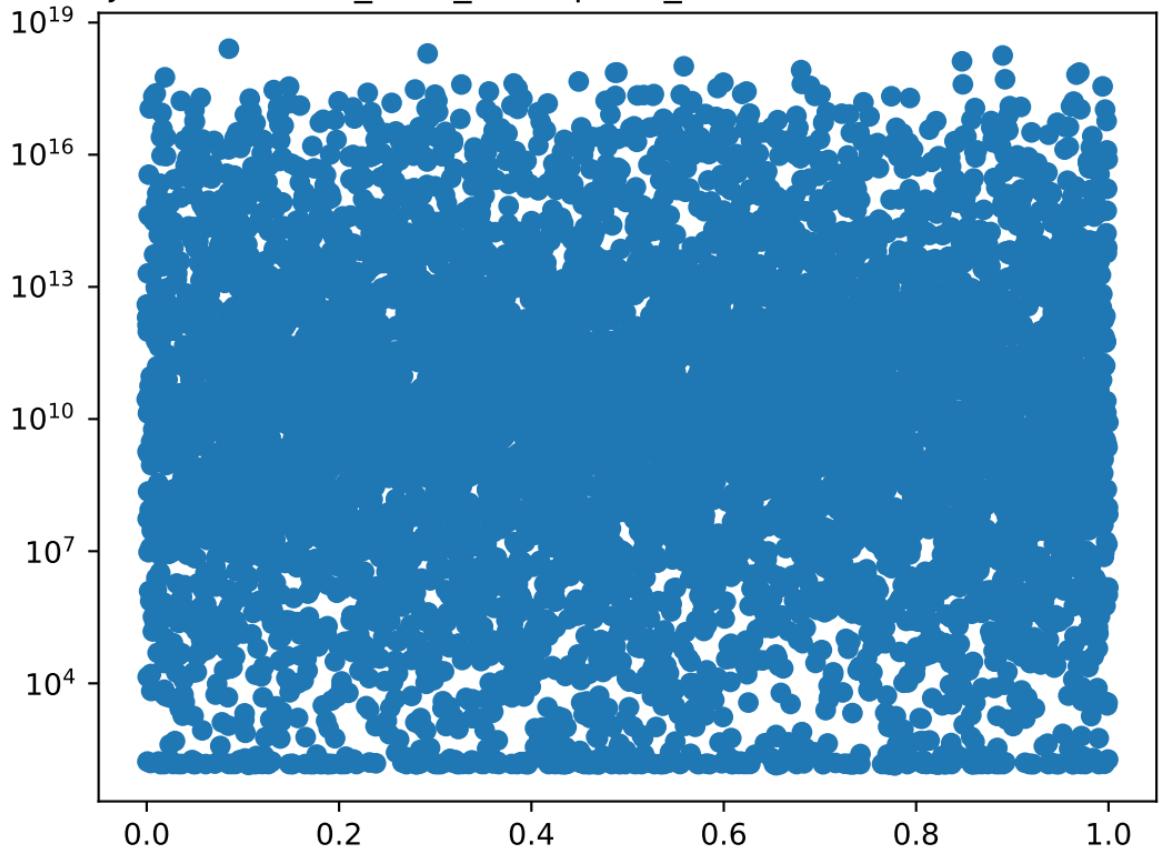
linear obj func Surface_DoubleBond_to_Bidentate/Combined;VacantSite/A



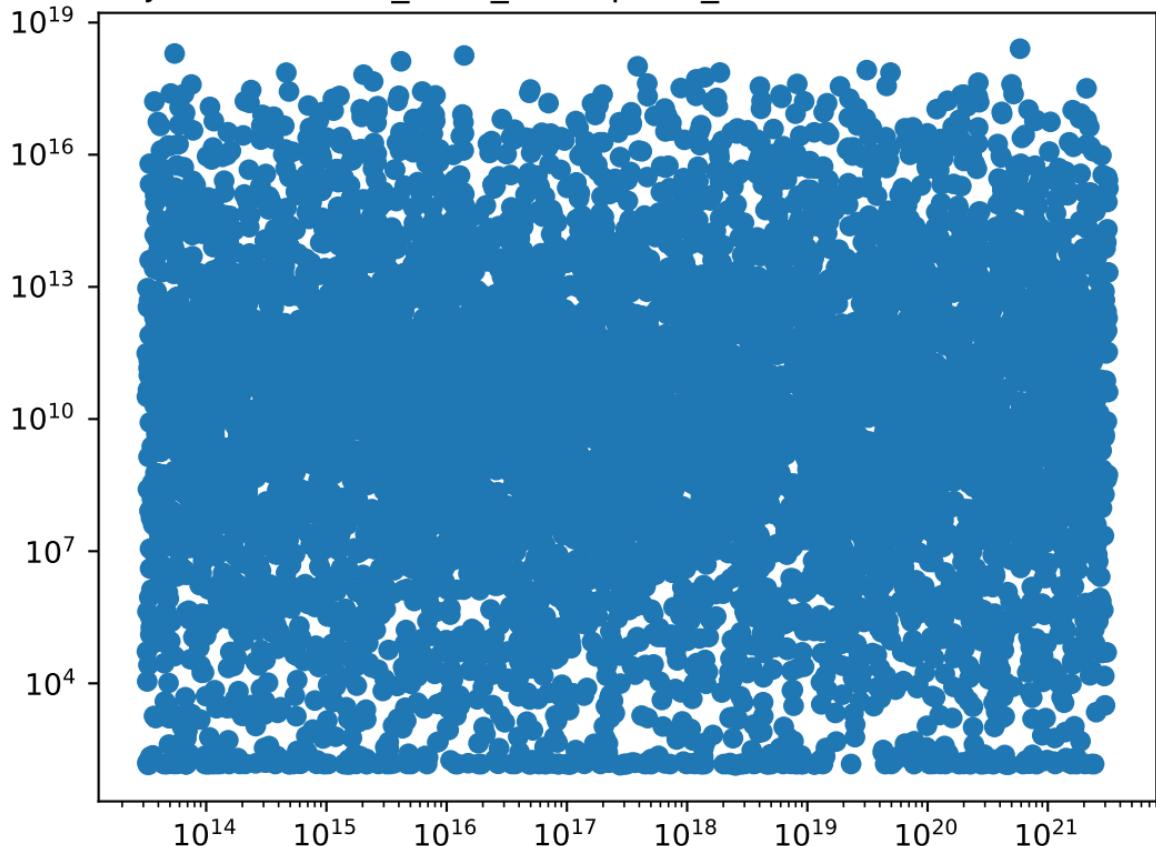
linear obj func Surface_DoubleBond_to_Bidentate/Combined; VacantSite/E0



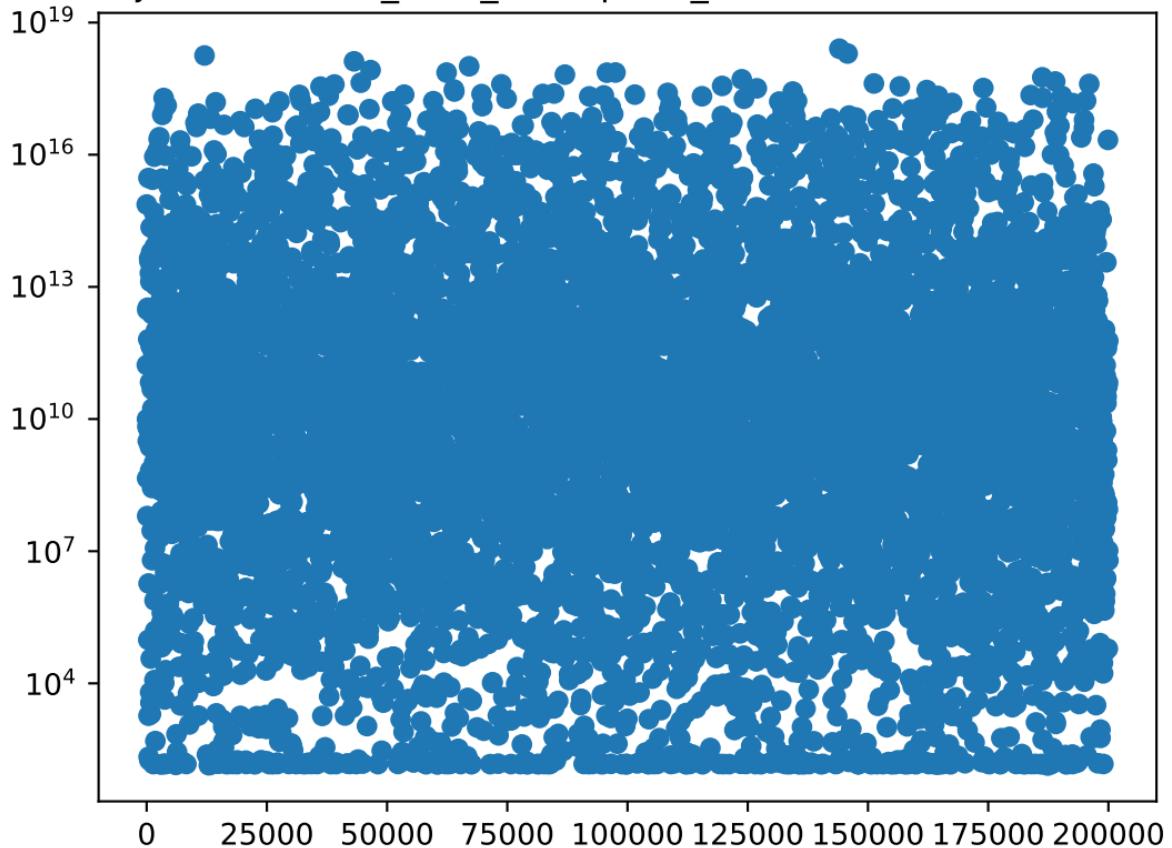
linear obj func Surface_Dual_Adsorption_vdW/Adsorbate1;Adsorbate2/alpha



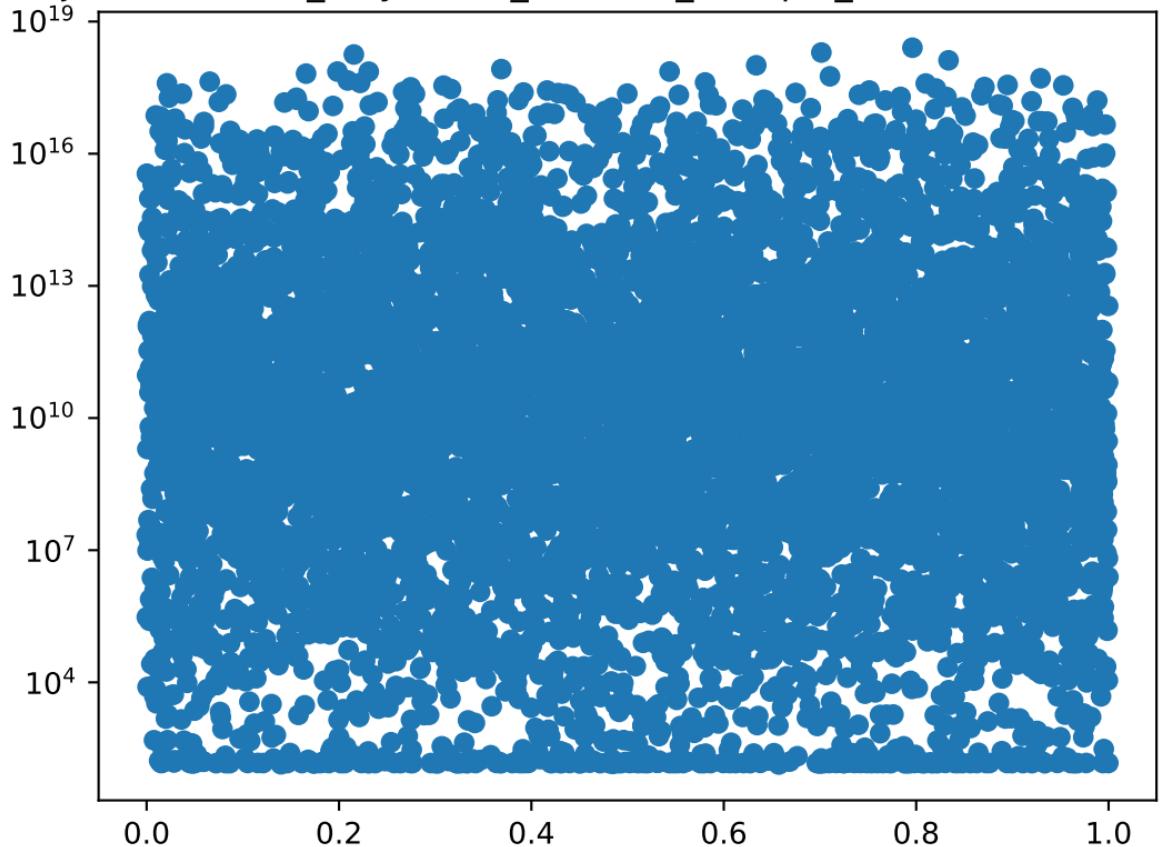
linear obj func Surface_Dual_Adsorption_vdW/Adsorbate1;Adsorbate2/A



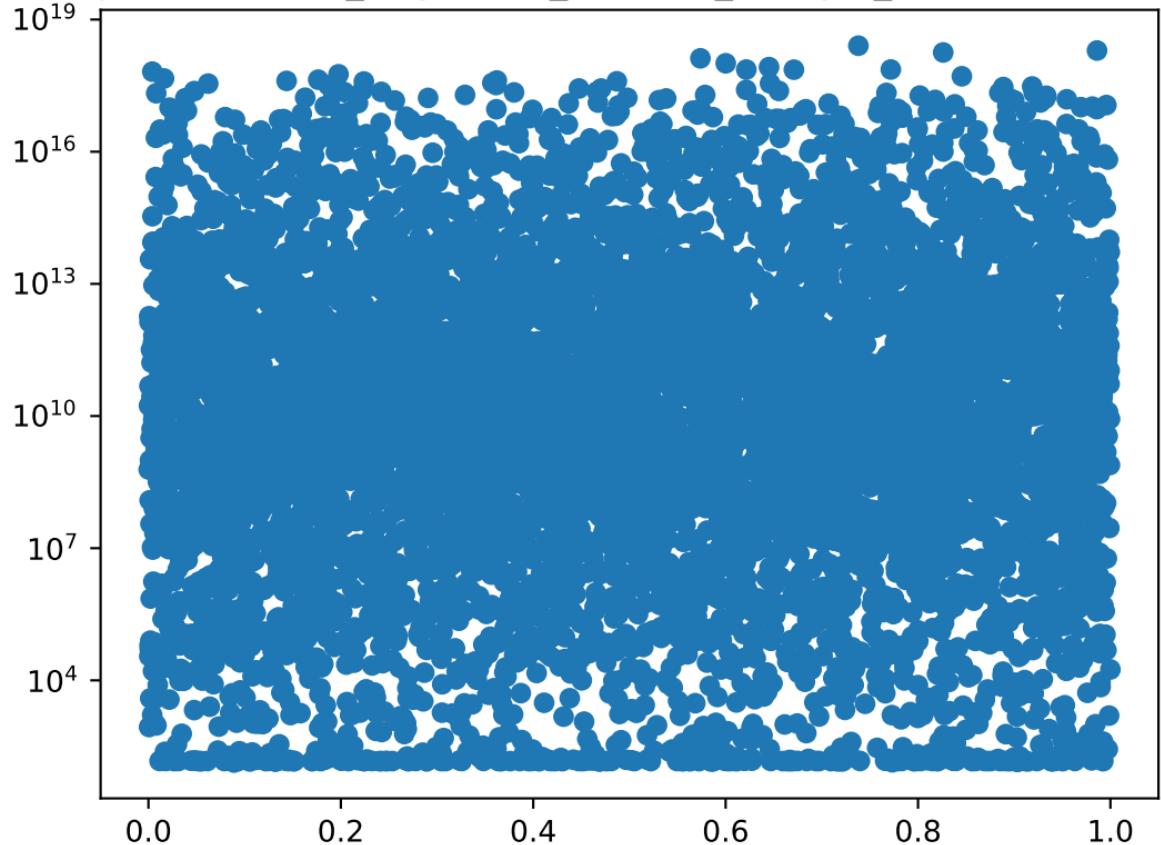
linear obj func Surface_Dual_Adsorption_vdW/Adsorbate1;Adsorbate2/E0



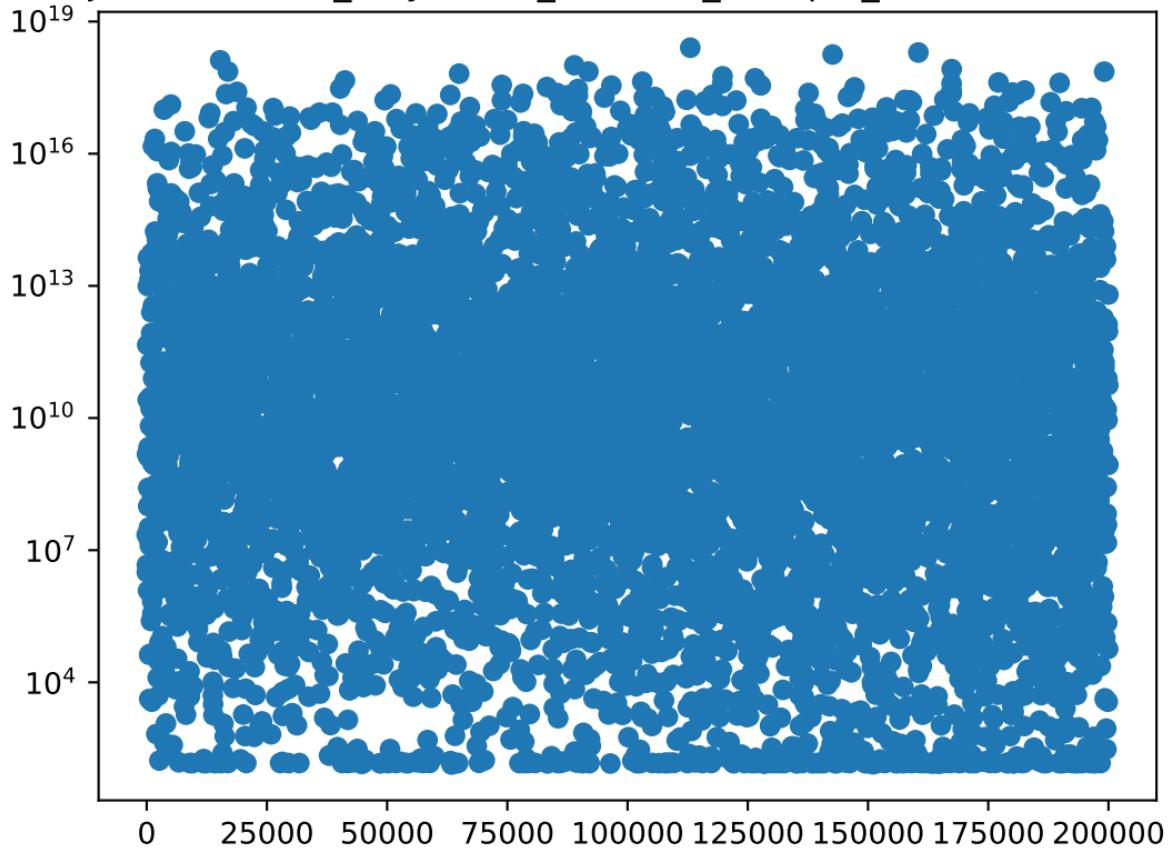
near obj func Surface_EleyRideal_Addition_Multiple_Bond/Adsorbate1;Gas/alpha



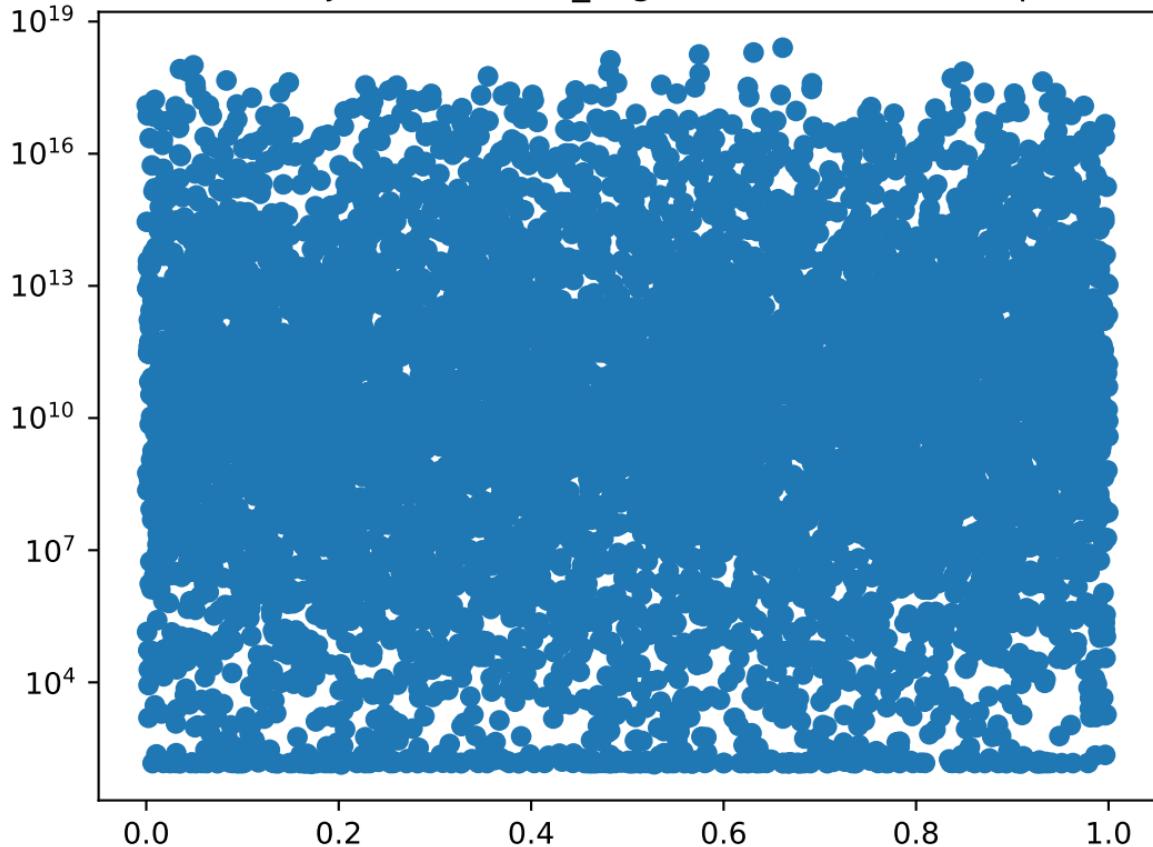
linear obj func Surface_EleyRideal_Addition_Multiple_Bond/Adsorbate1;Gas/



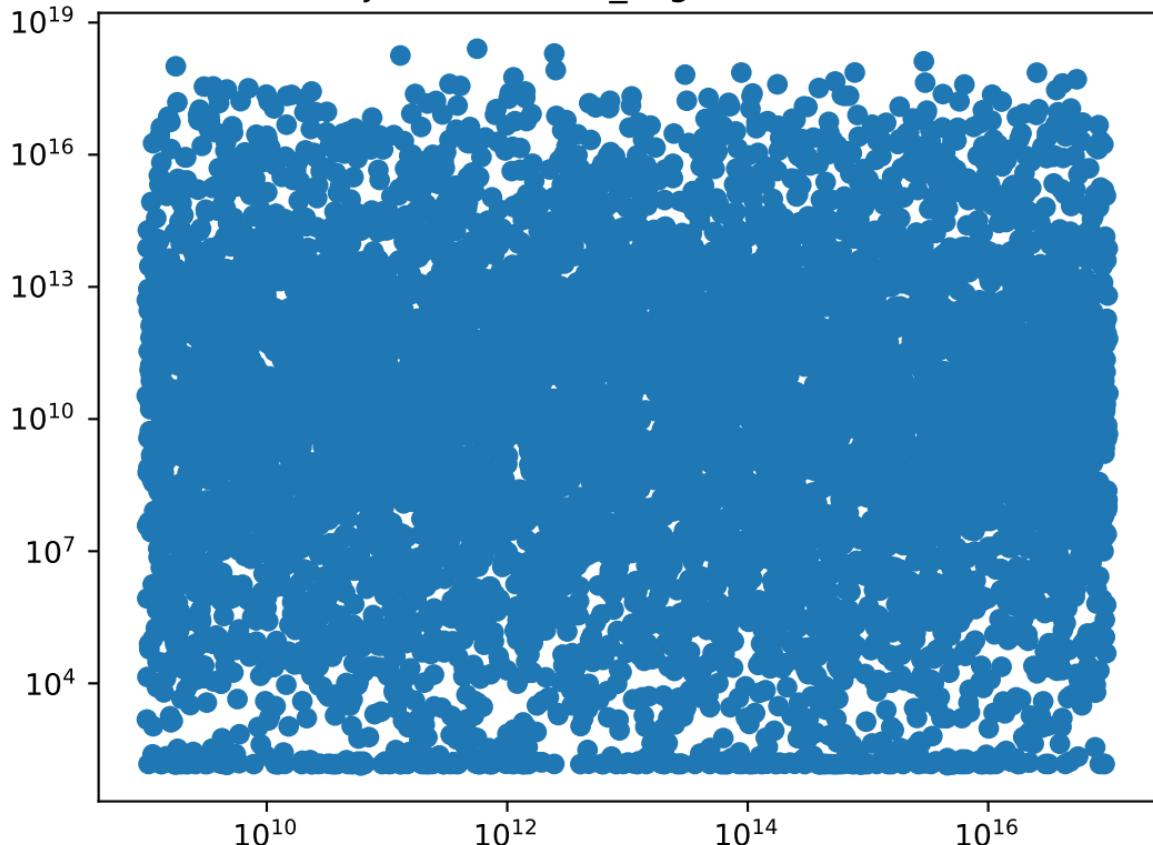
linear obj func Surface_EleyRideal_Addition_Multiple_Bond/Adsorbate1;Gas/E



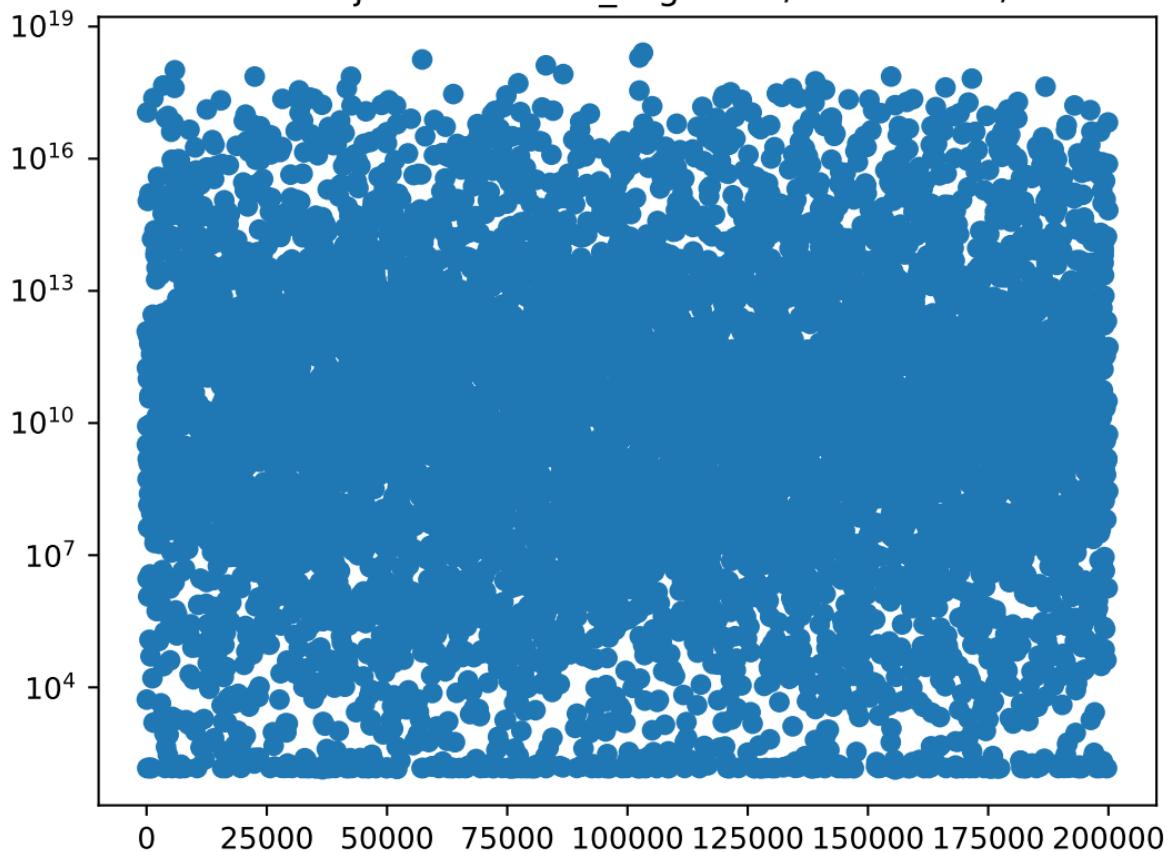
linear obj func Surface_Migration/Adsorbate1/alpha



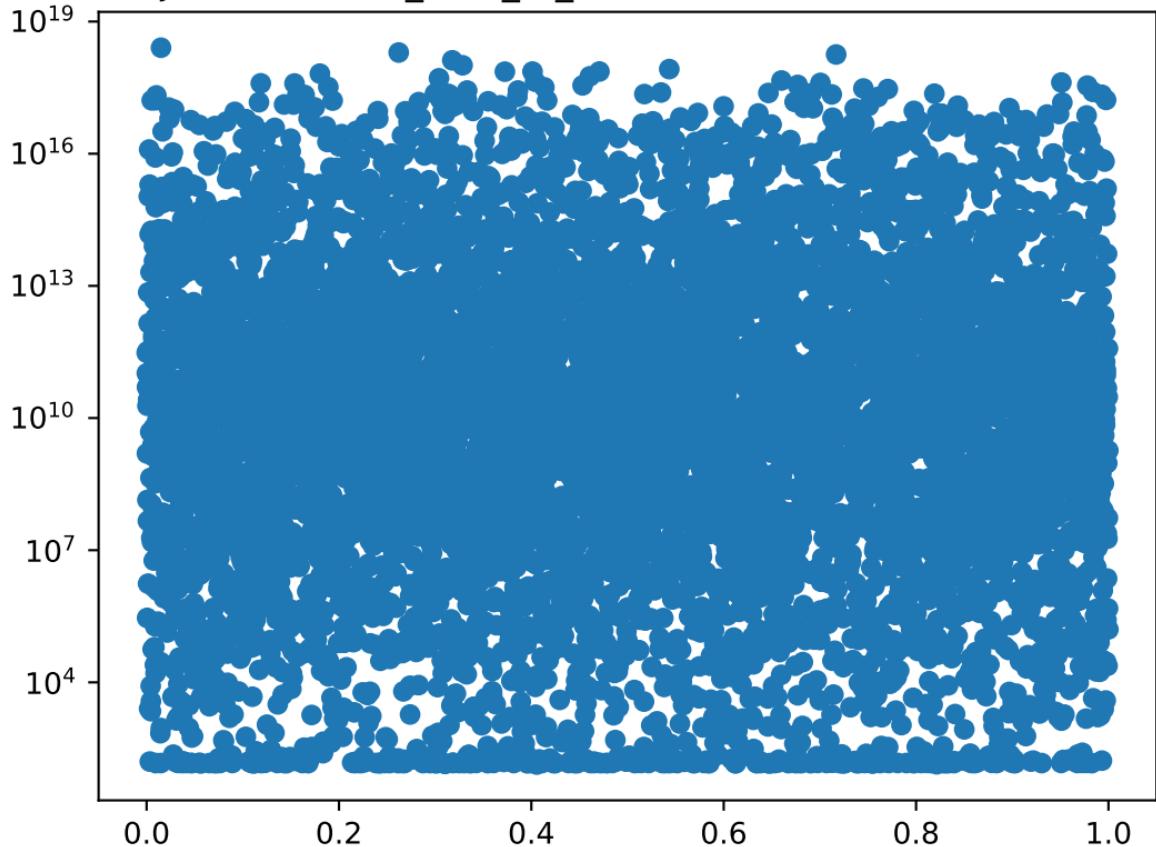
linear obj func Surface_Migration/Adsorbate1/A



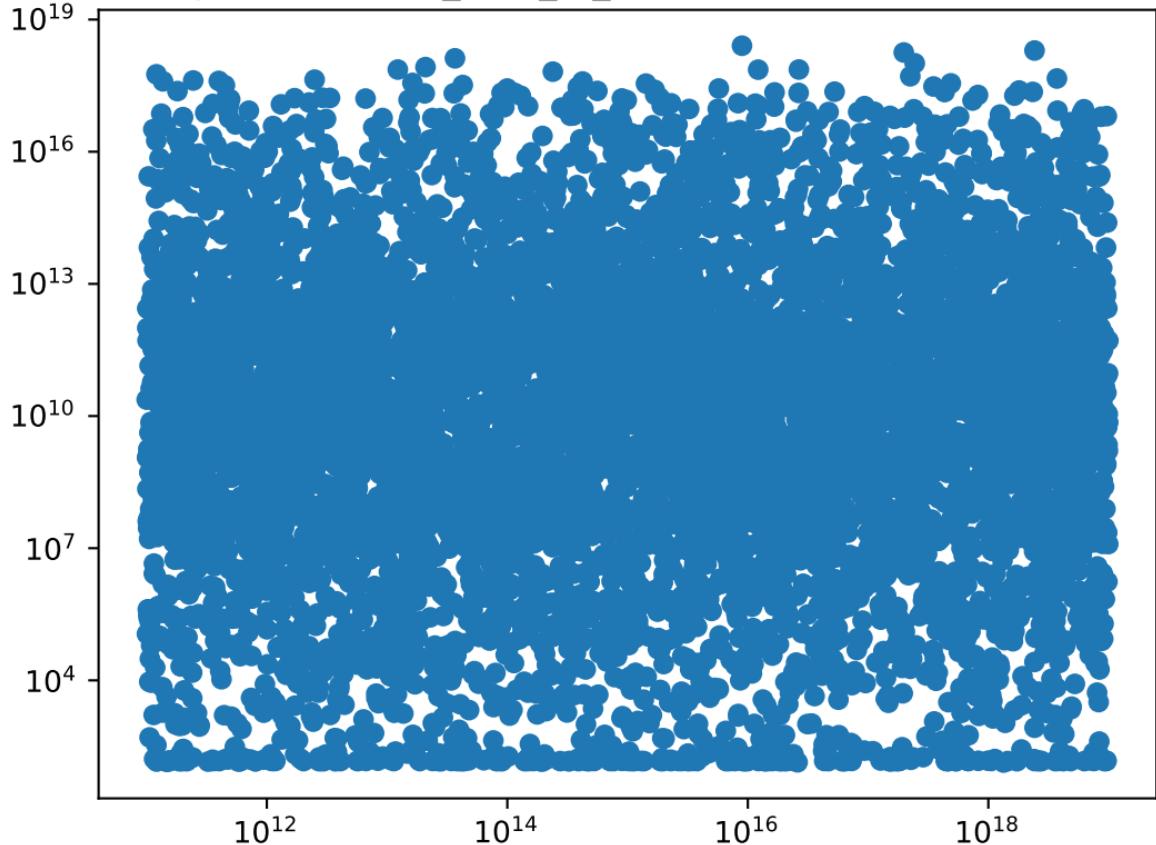
linear obj func Surface_Migration/Adsorbate1/E0



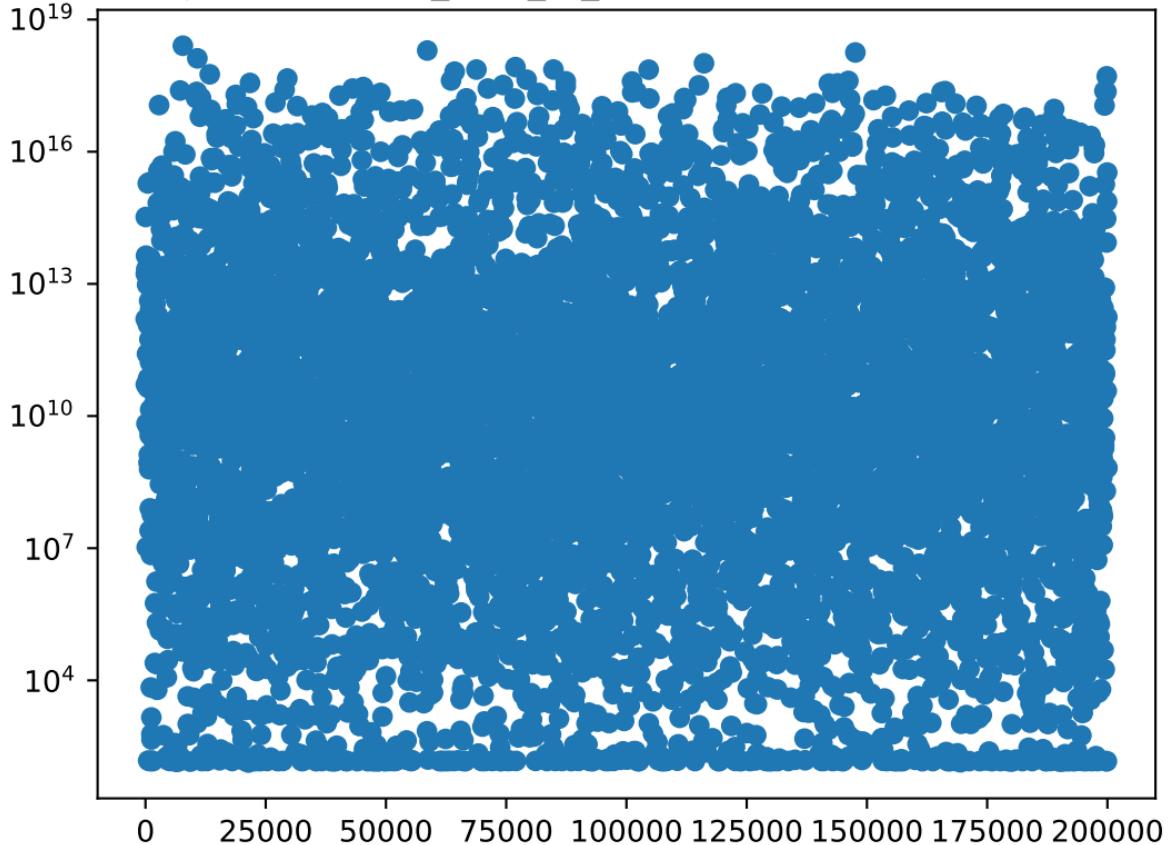
linear obj func Surface_vdW_to_Bidentate/Combined;VacantSite/alpha



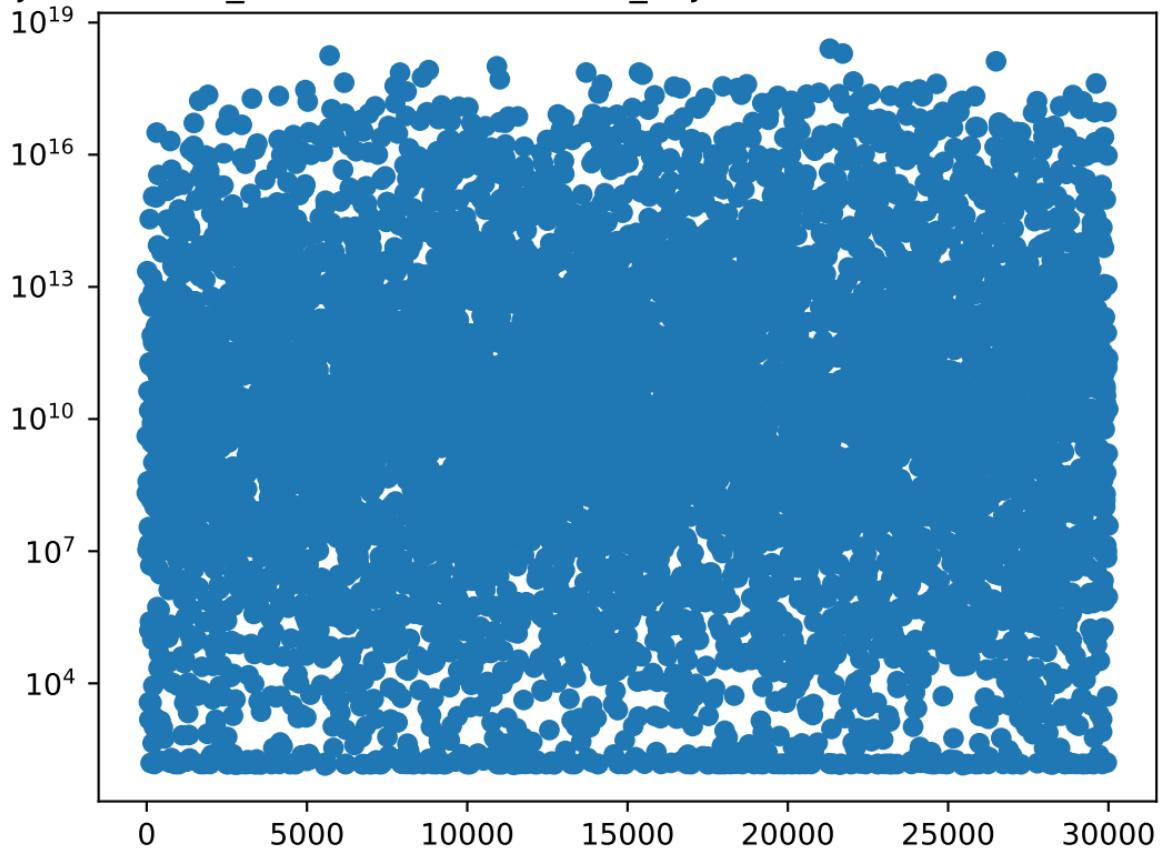
linear obj func Surface_vdW_to_Bidentate/Combined;VacantSite/A



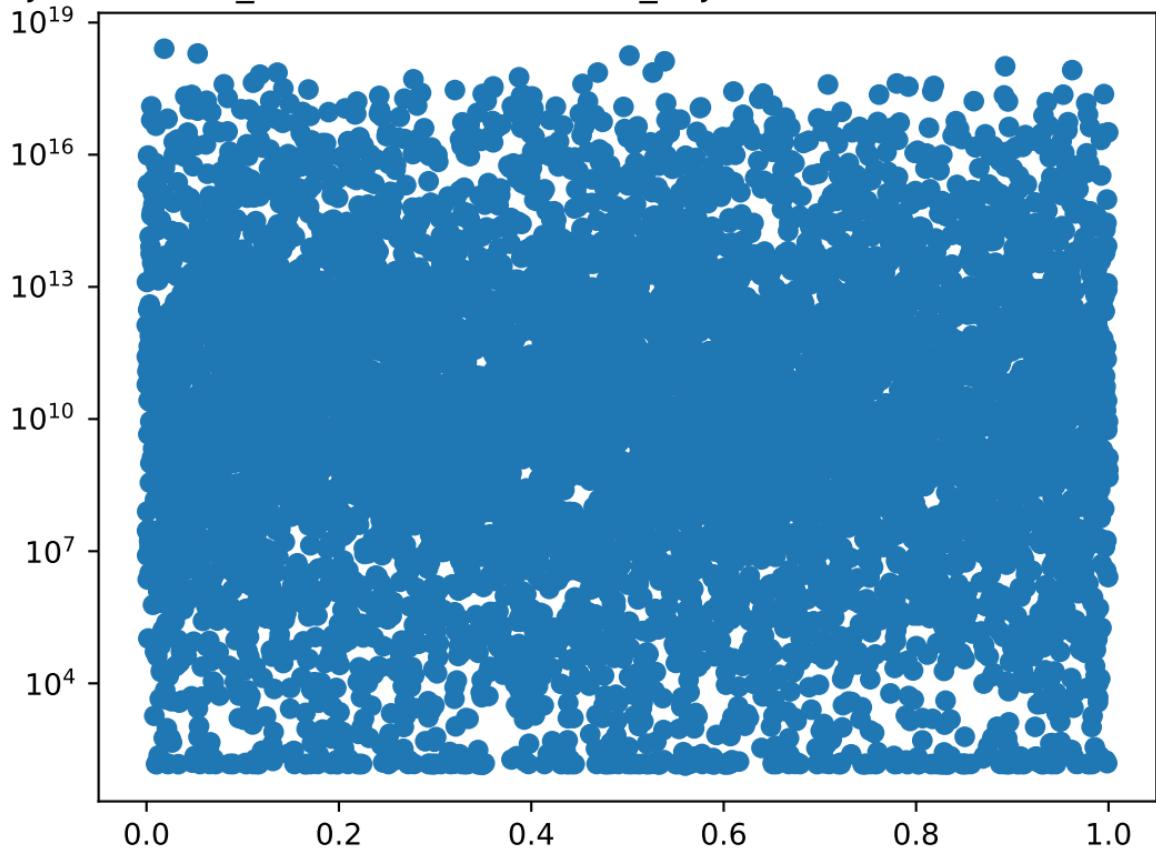
linear obj func Surface_vdW_to_Bidentate/Combined;VacantSite/E0



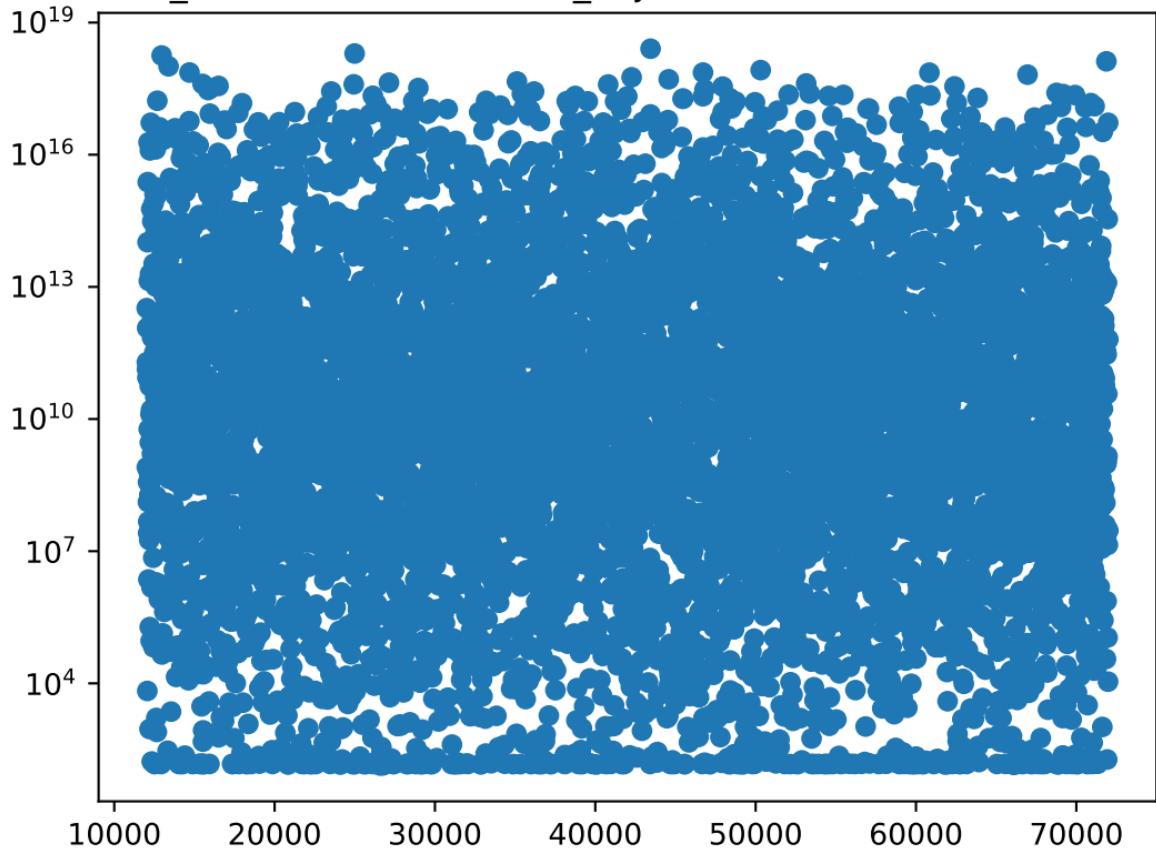
ar obj func CPOX_Pt/Deutschmann2006_adjusted/1/H2 + Pt + Pt <=> HX +



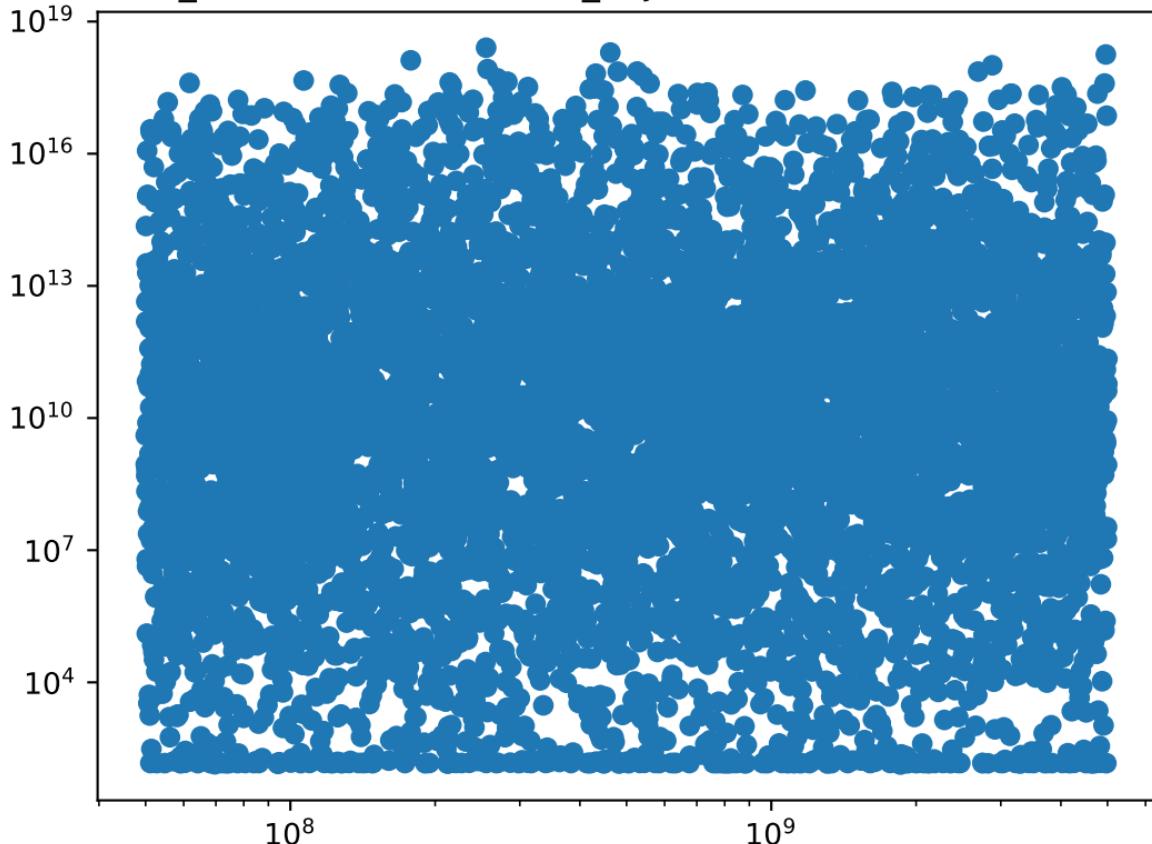
near obj func CPOX_Pt/Deutschmann2006_adjusted/1/H₂ + Pt + Pt <=> HX +

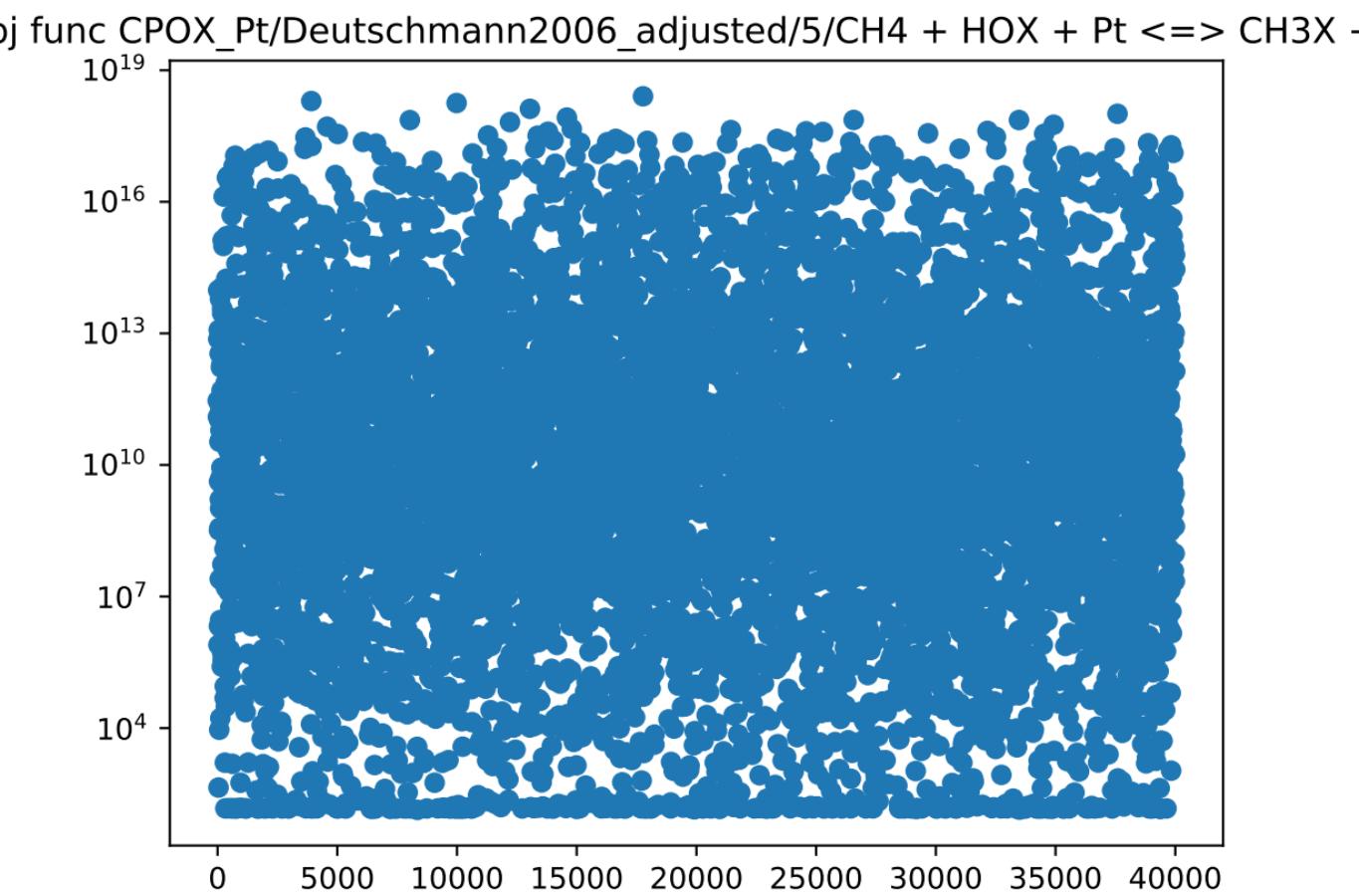


obj func CPOX_Pt/Deutschmann2006_adjusted/4/CH4 + OX + Pt <=> CH3X -

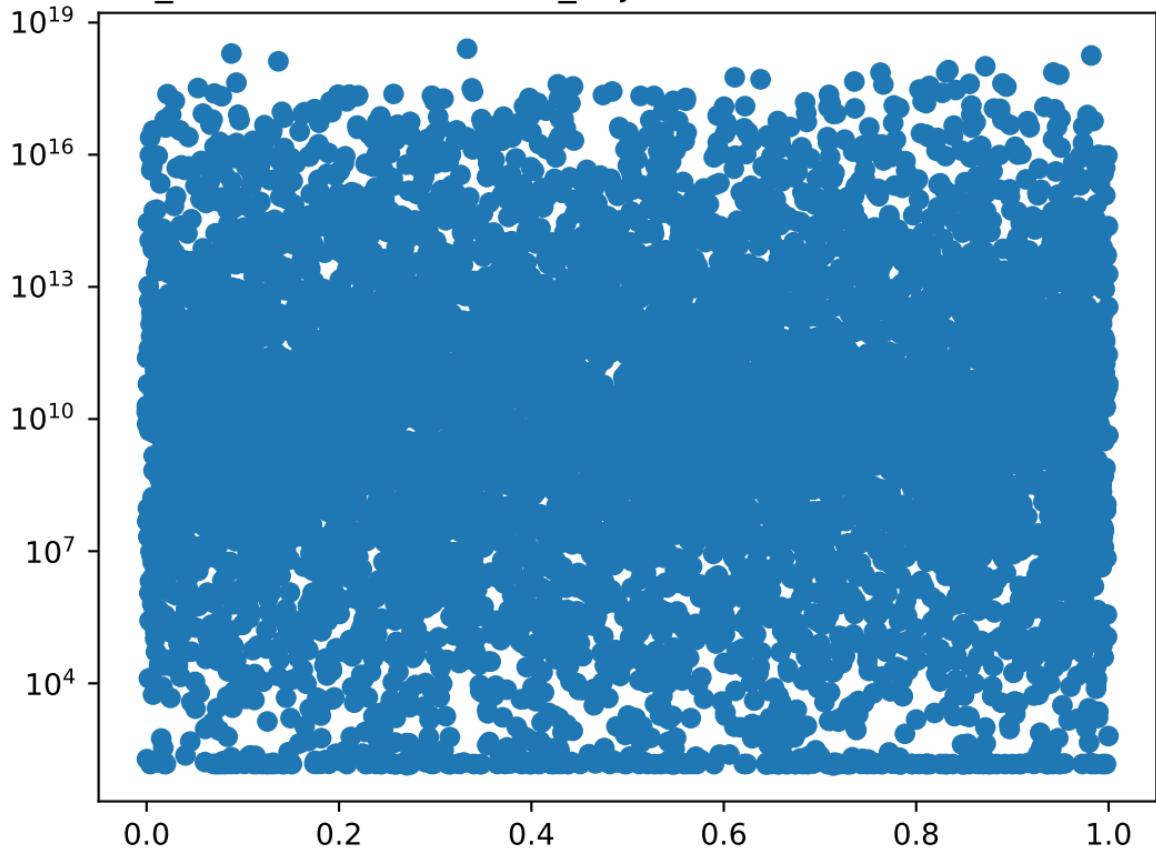


obj func CPOX_Pt/Deutschmann2006_adjusted/4/CH4 + OX + Pt <=> CH3X

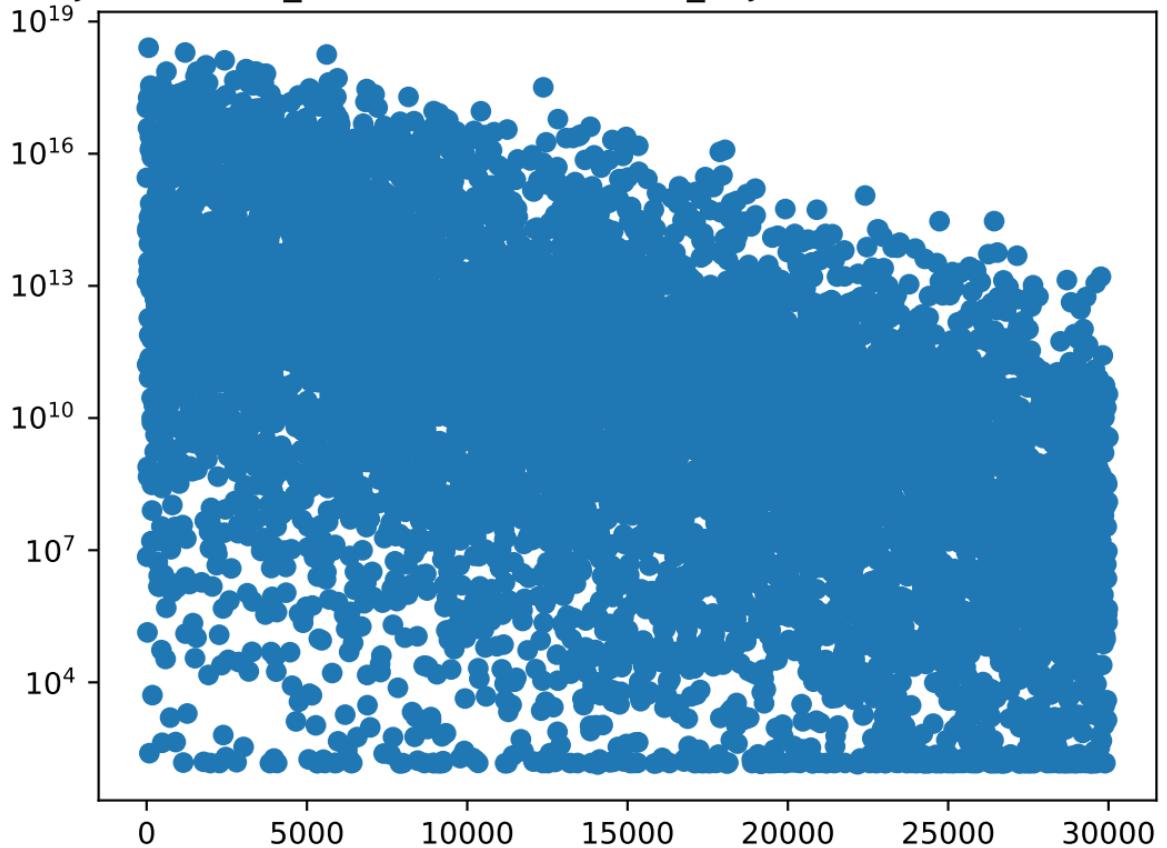




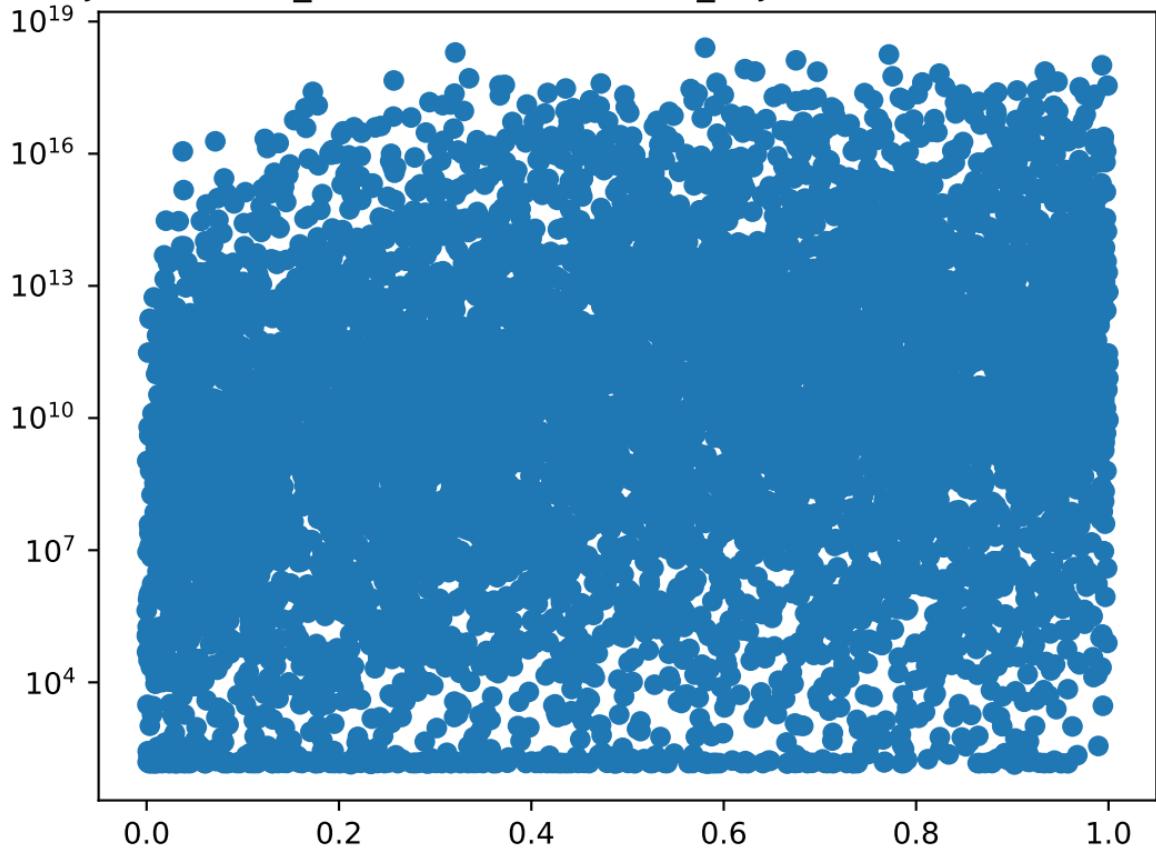
obj func CPOX_Pt/Deutschmann2006_adjusted/5/CH4 + HOX + Pt <=> CH3X



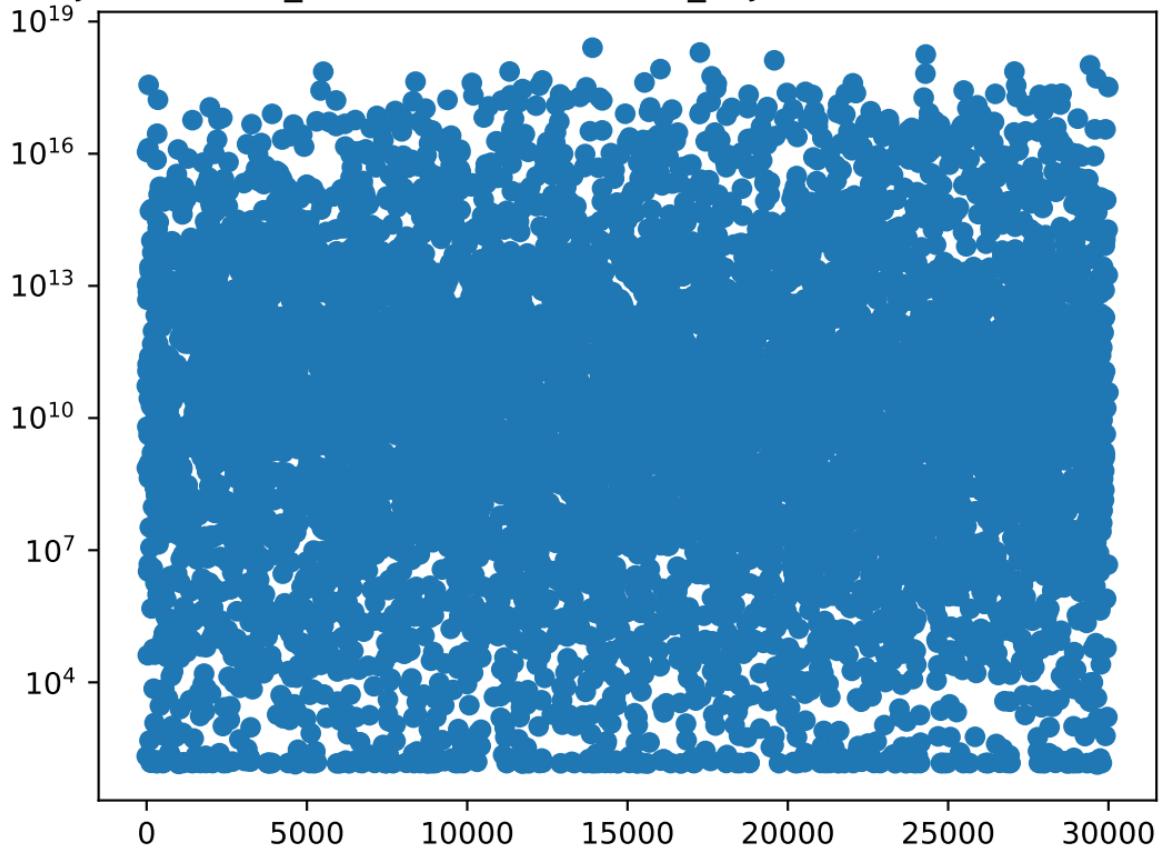
linear obj func CPOX_Pt/Deutschmann2006_adjusted/6/H₂O + Pt <=> H₂OX/



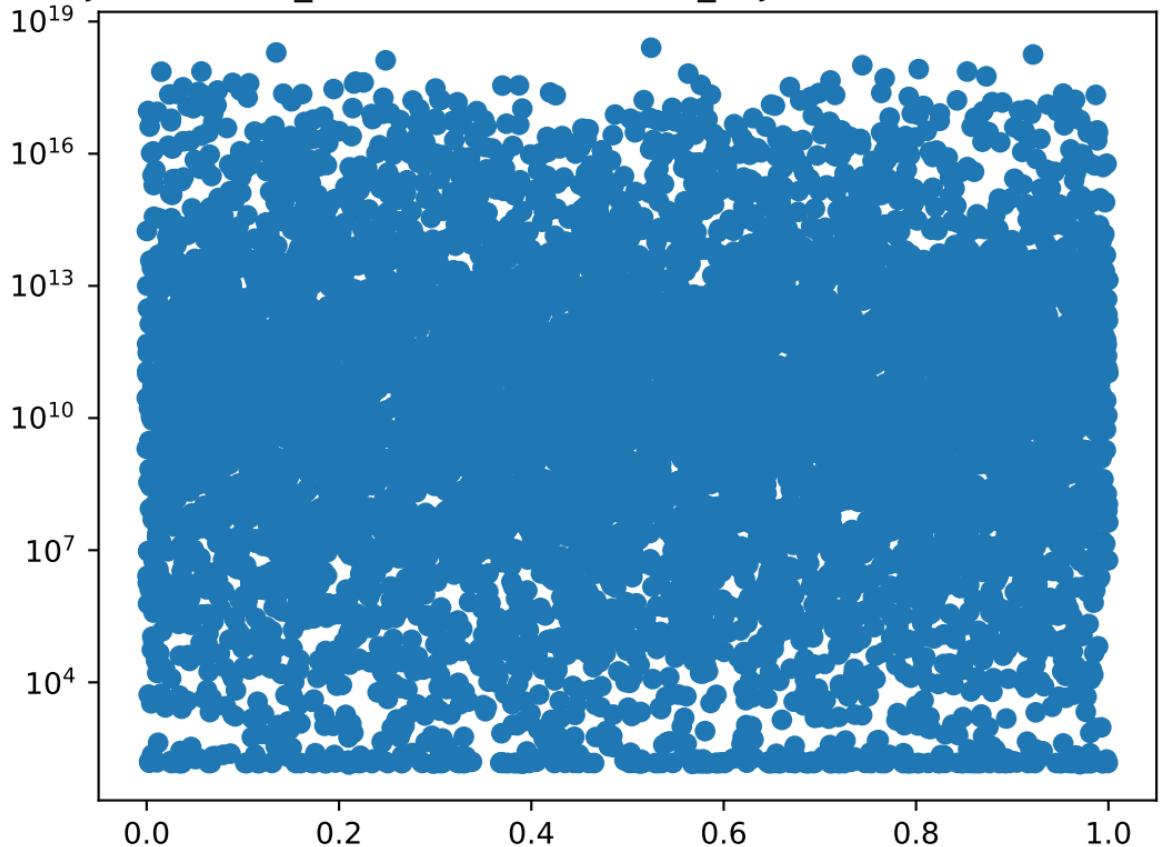
linear obj func CPOX_Pt/Deutschmann2006_adjusted/6/H₂O + Pt <=> H₂O X



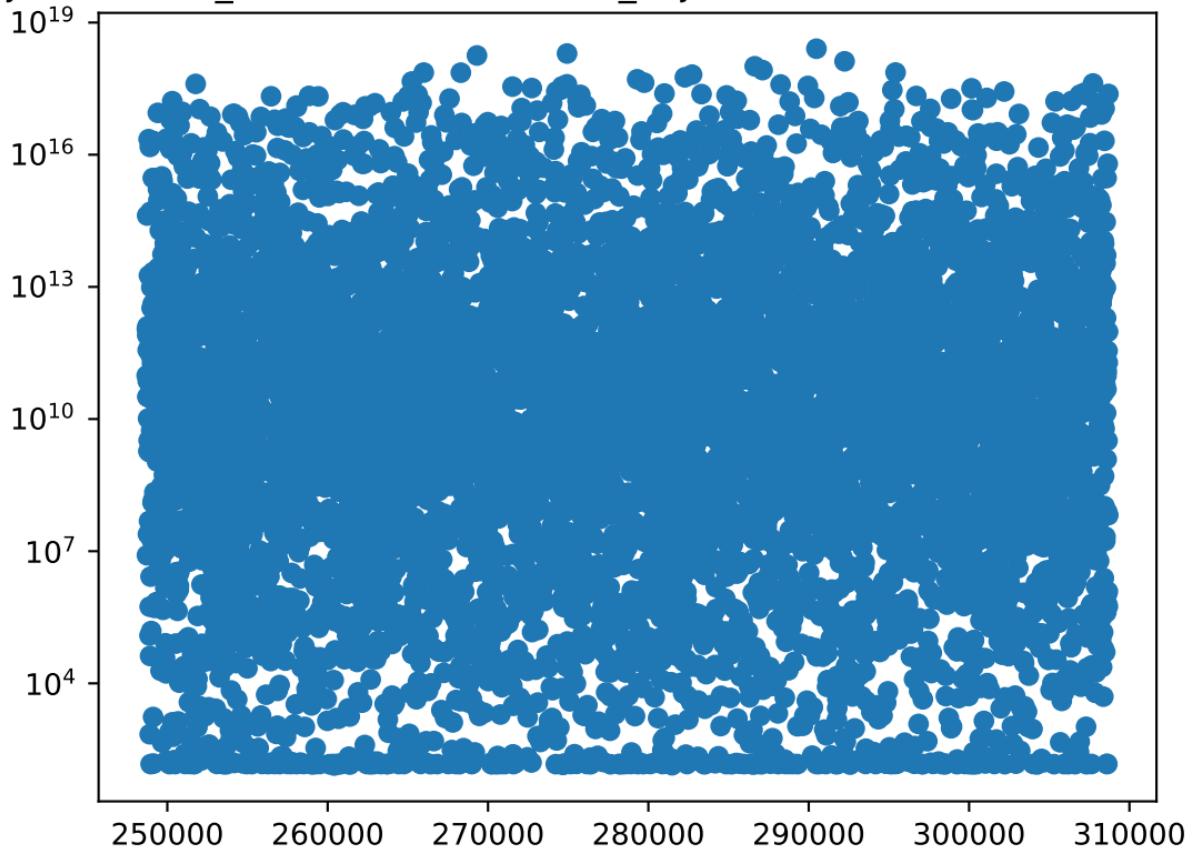
linear obj func CPOX_Pt/Deutschmann2006_adjusted/7/CO2 + Pt <=> CO2X/



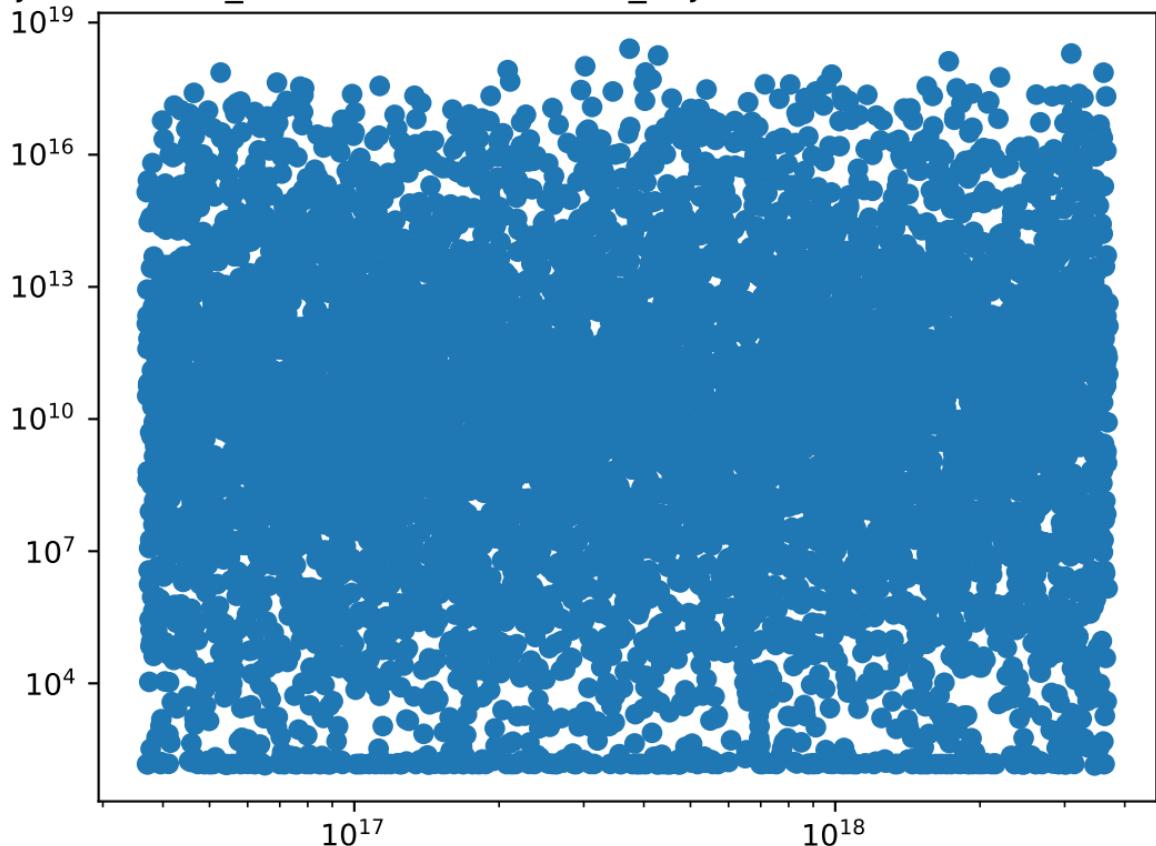
linear obj func CPOX_Pt/Deutschmann2006_adjusted/7/CO2 + Pt <=> CO2X



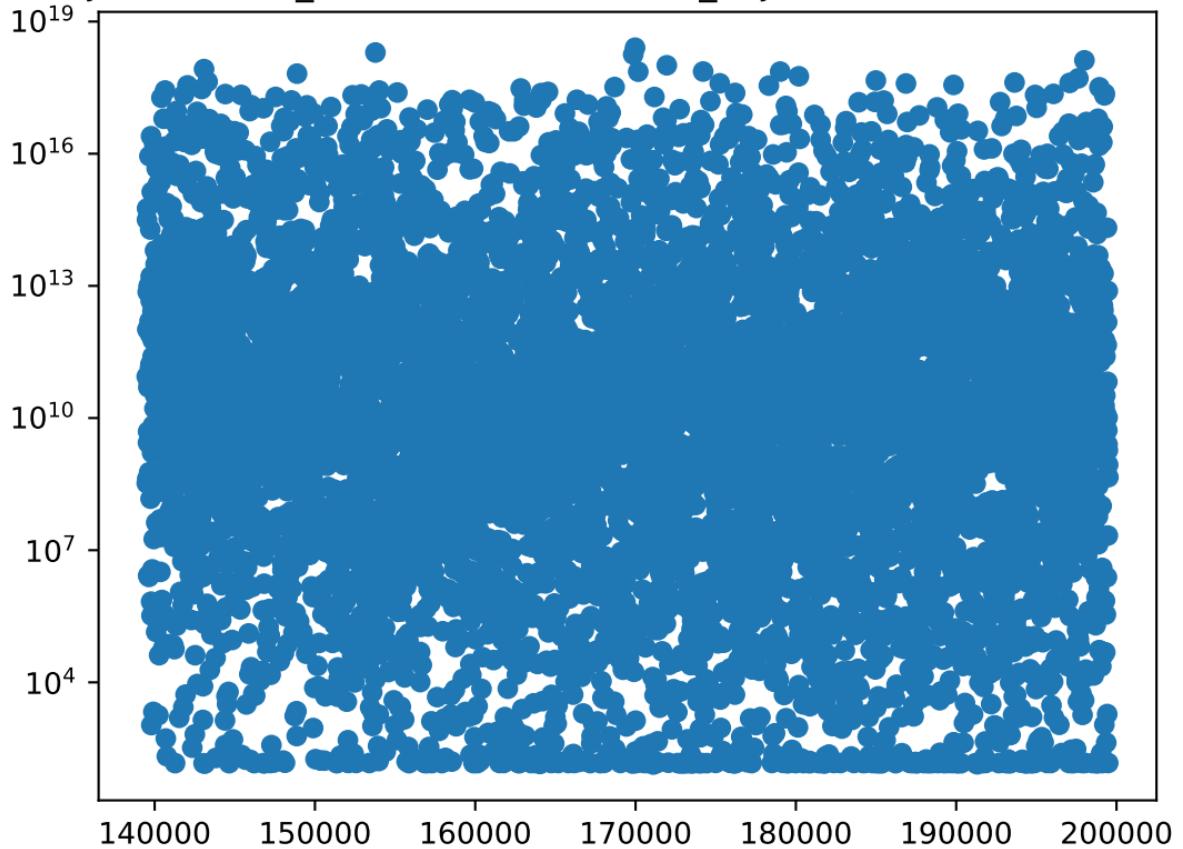
var obj func CPOX_Pt/Deutschmann2006_adjusted/10/OX + OX <=> Pt + Pt +

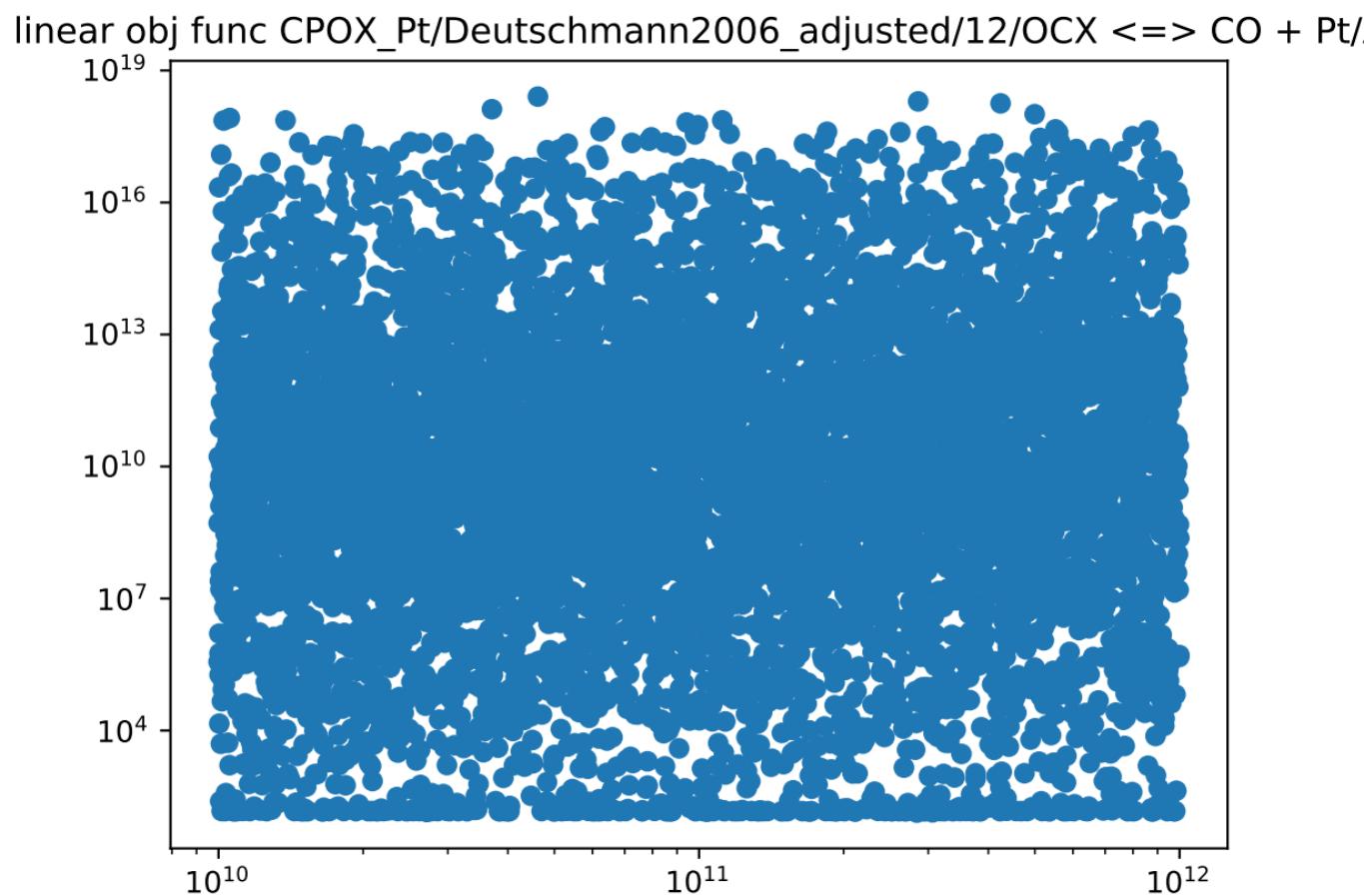


ar obj func CPOX_Pt/Deutschmann2006_adjusted/10/OX + OX <=> Pt + Pt +

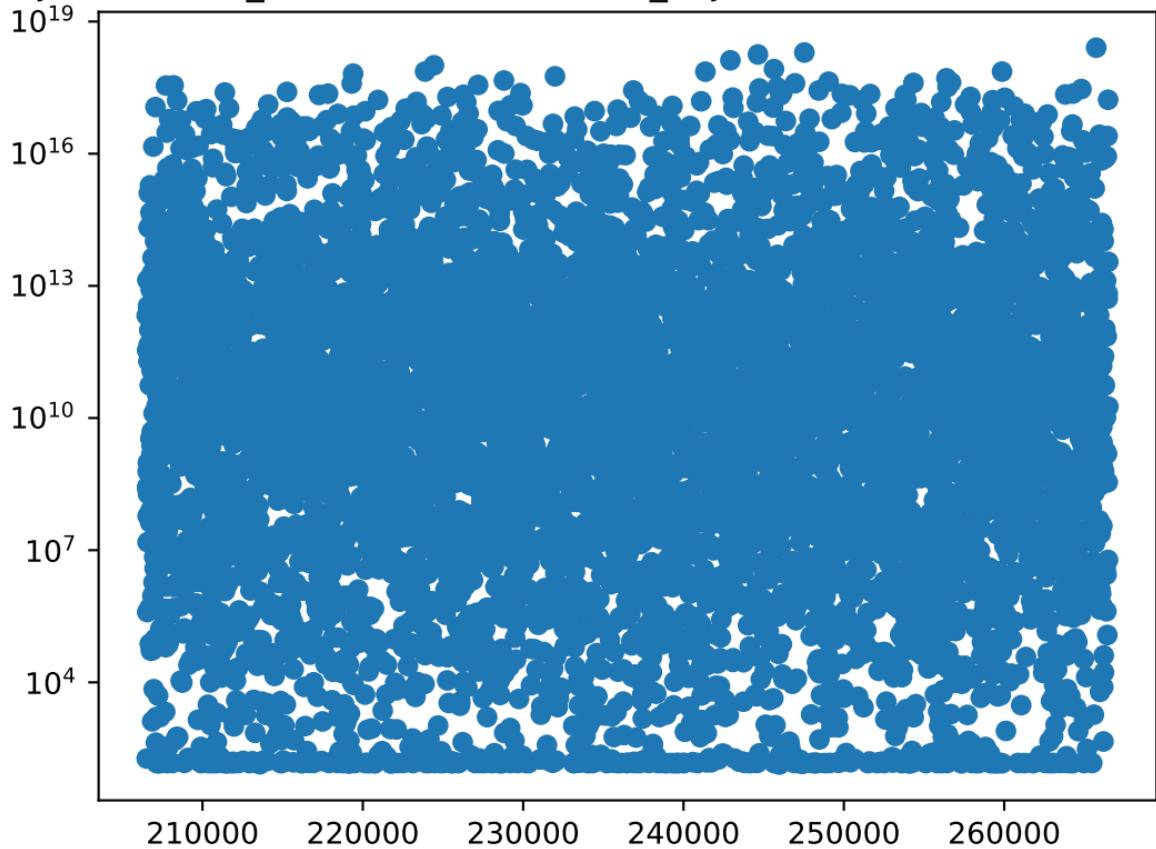


linear obj func CPOX_Pt/Deutschmann2006_adjusted/12/OCX <=> CO + Pt/E

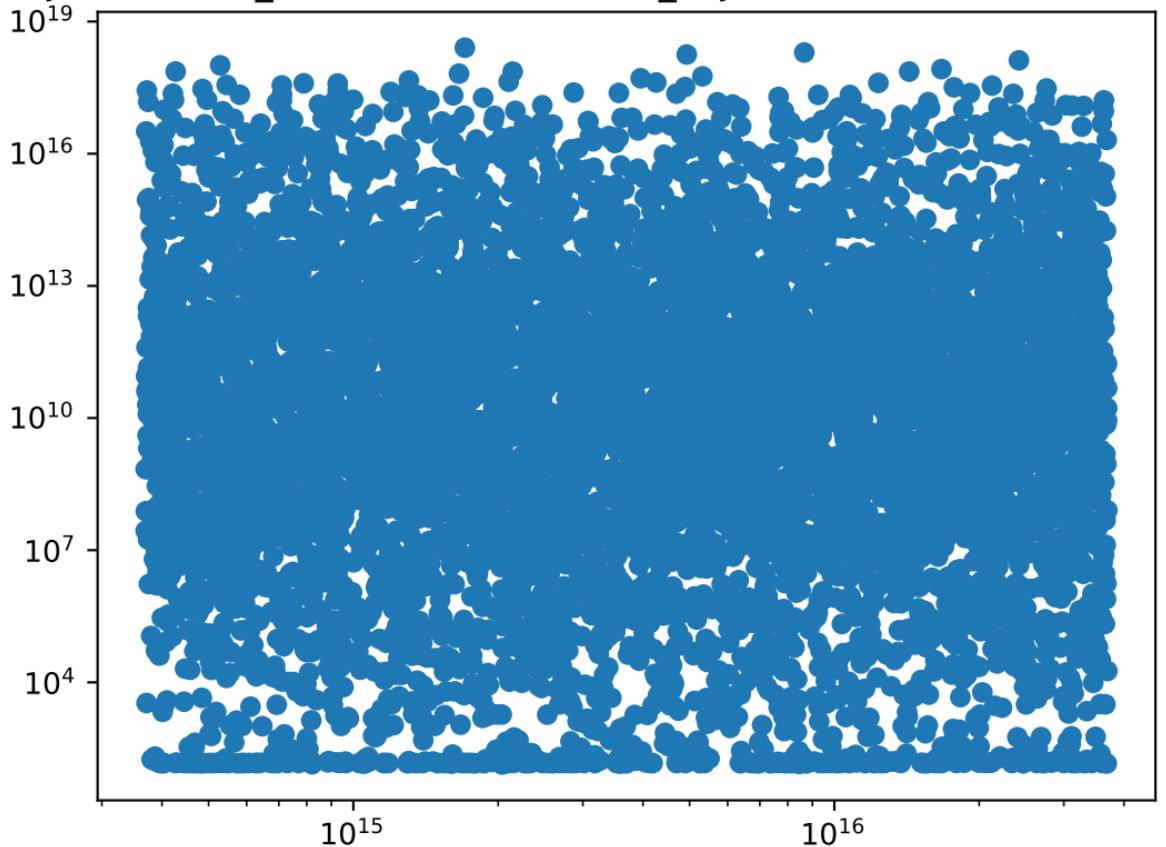




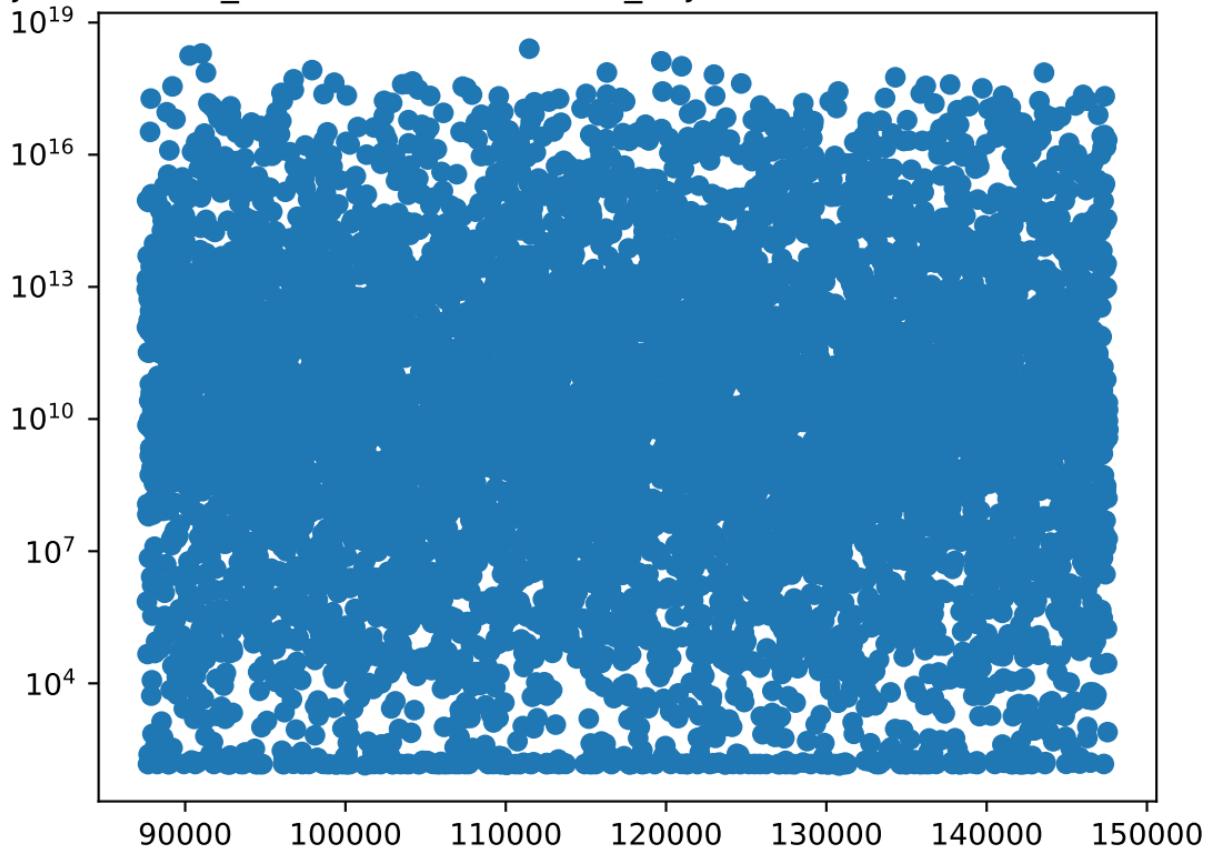
ear obj func CPOX_Pt/Deutschmann2006_adjusted/15/OCX + Pt <=> CX + O



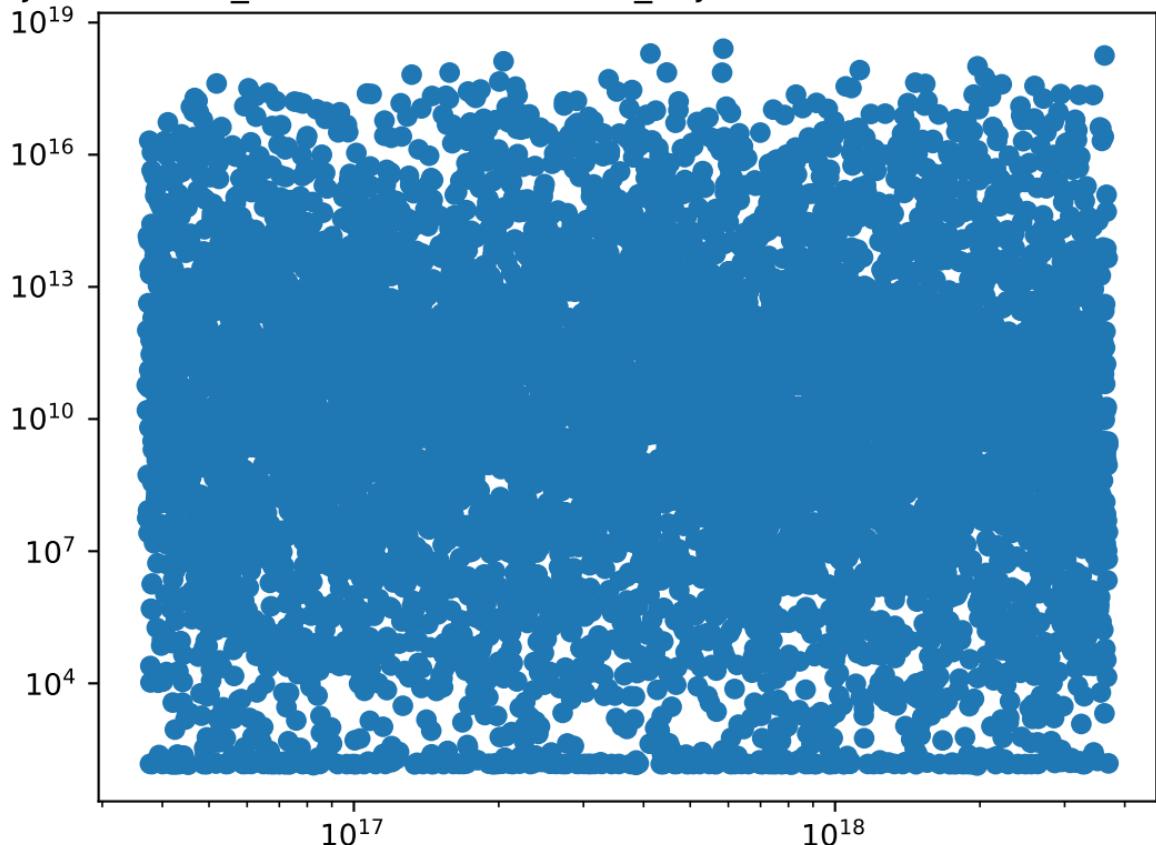
near obj func CPOX_Pt/Deutschmann2006_adjusted/15/OCX + Pt <=> CX + O



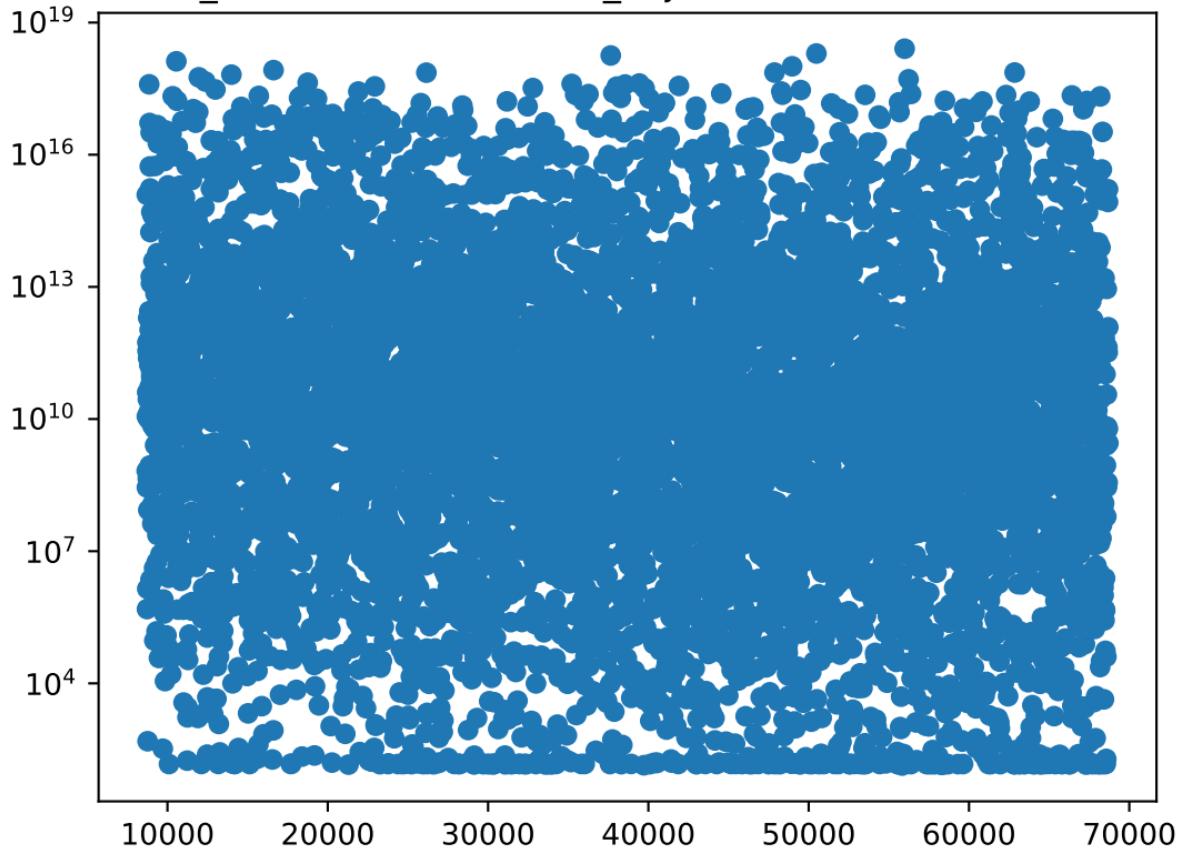
var obj func CPOX_Pt/Deutschmann2006_adjusted/16/OCX + OX <=> CO2X +



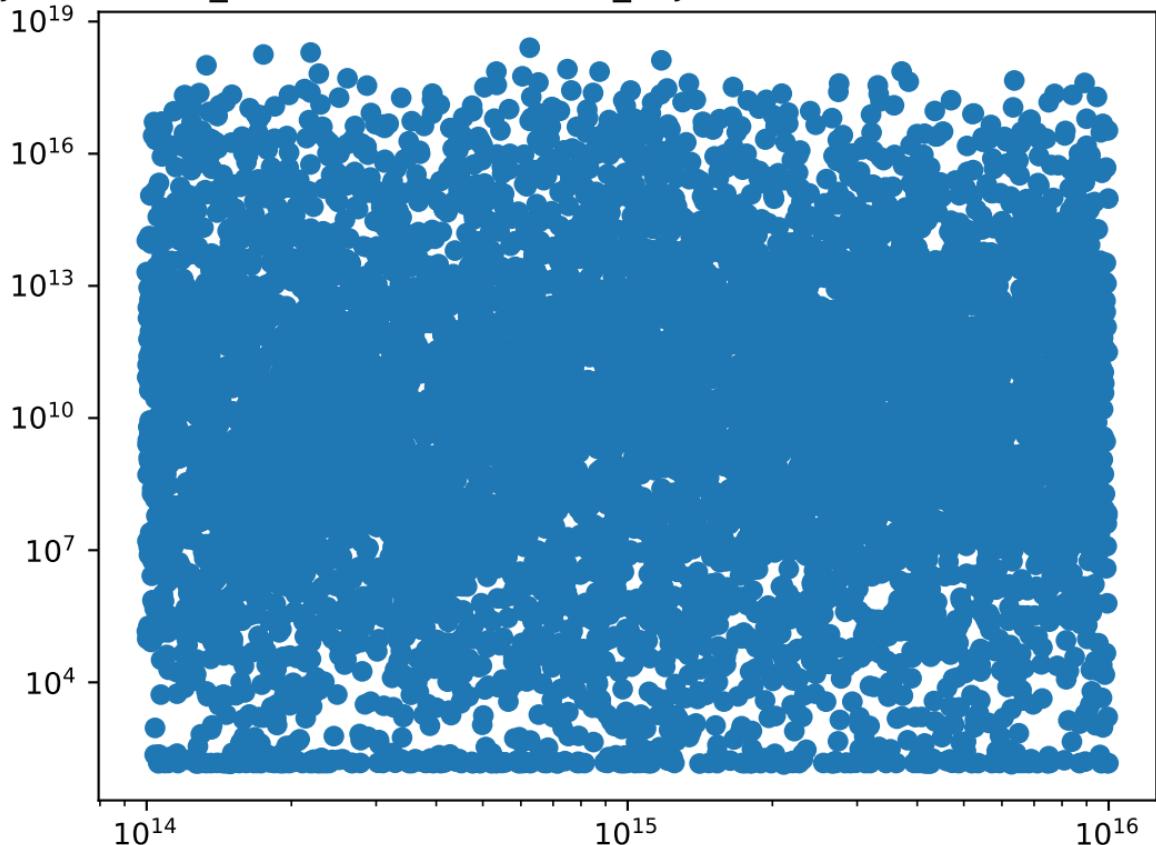
var obj func CPOX_Pt/Deutschmann2006_adjusted/16/OCX + OX <=> CO2X -



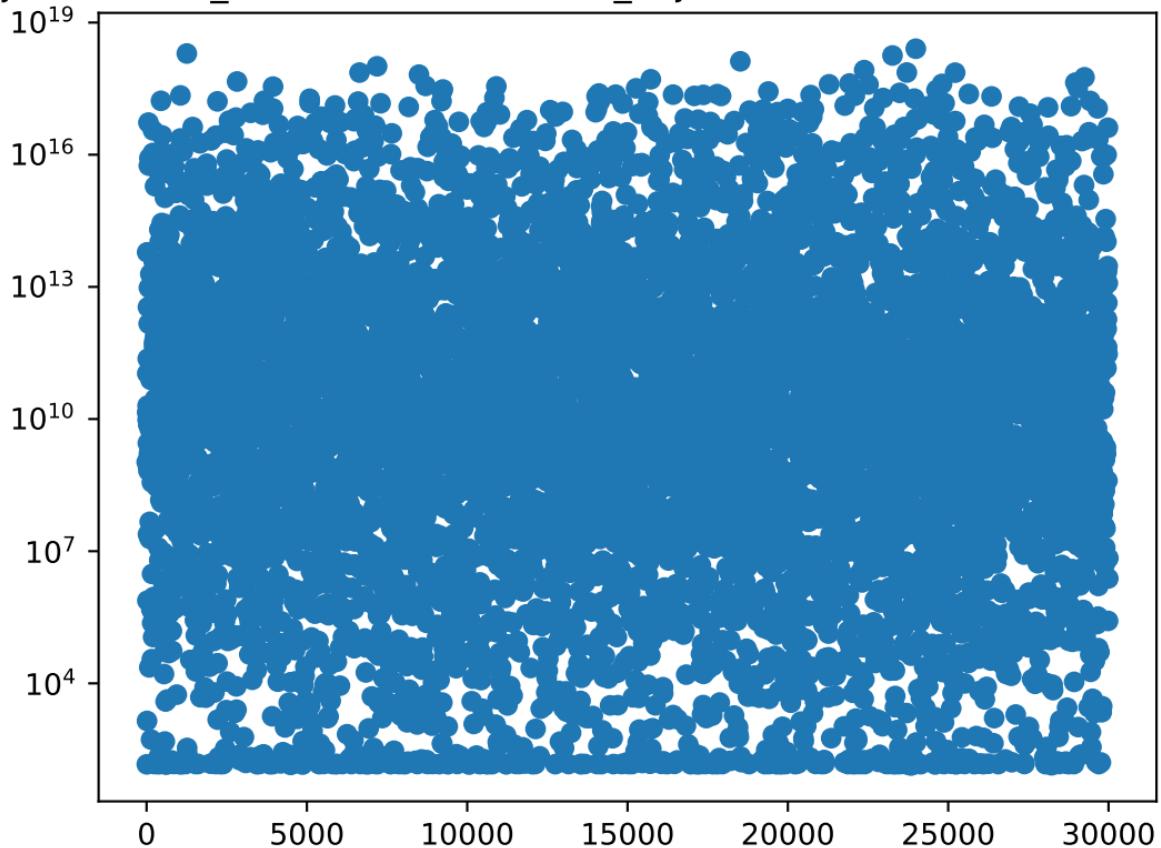
obj func CPOX_Pt/Deutschmann2006_adjusted/18/OCX + HOX <=> CO2X +



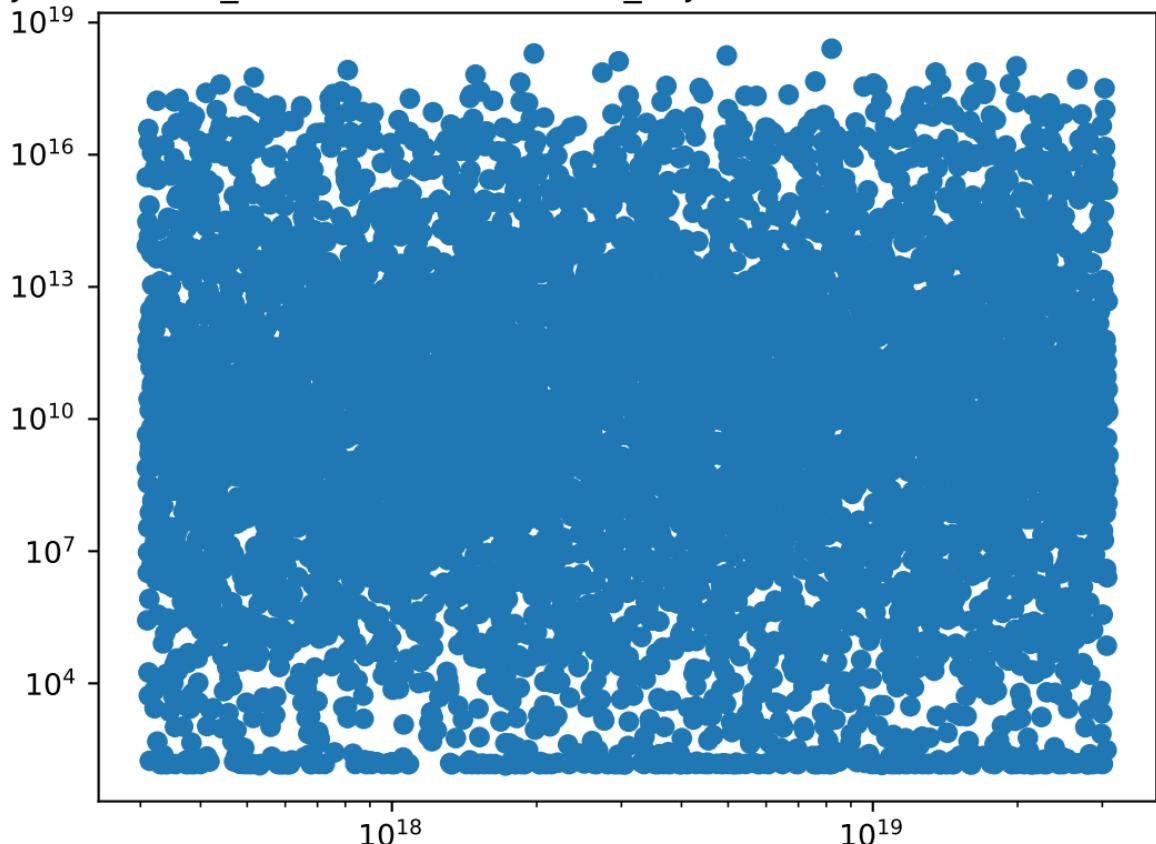
r obj func CPOX_Pt/Deutschmann2006_adjusted/18/OCX + HOX <=> CO2X -



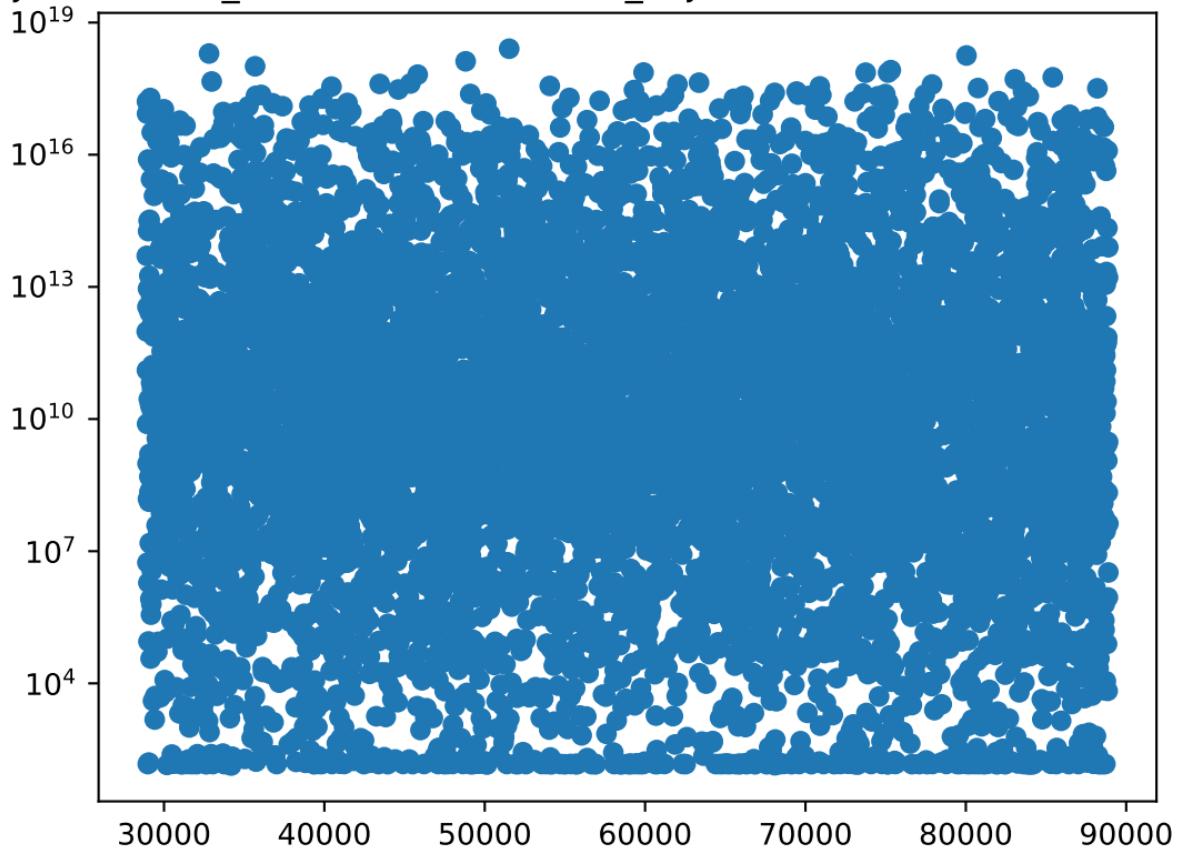
ur obj func CPOX_Pt/Deutschmann2006_adjusted/21/CH₂X + HX <=> CH₃X +



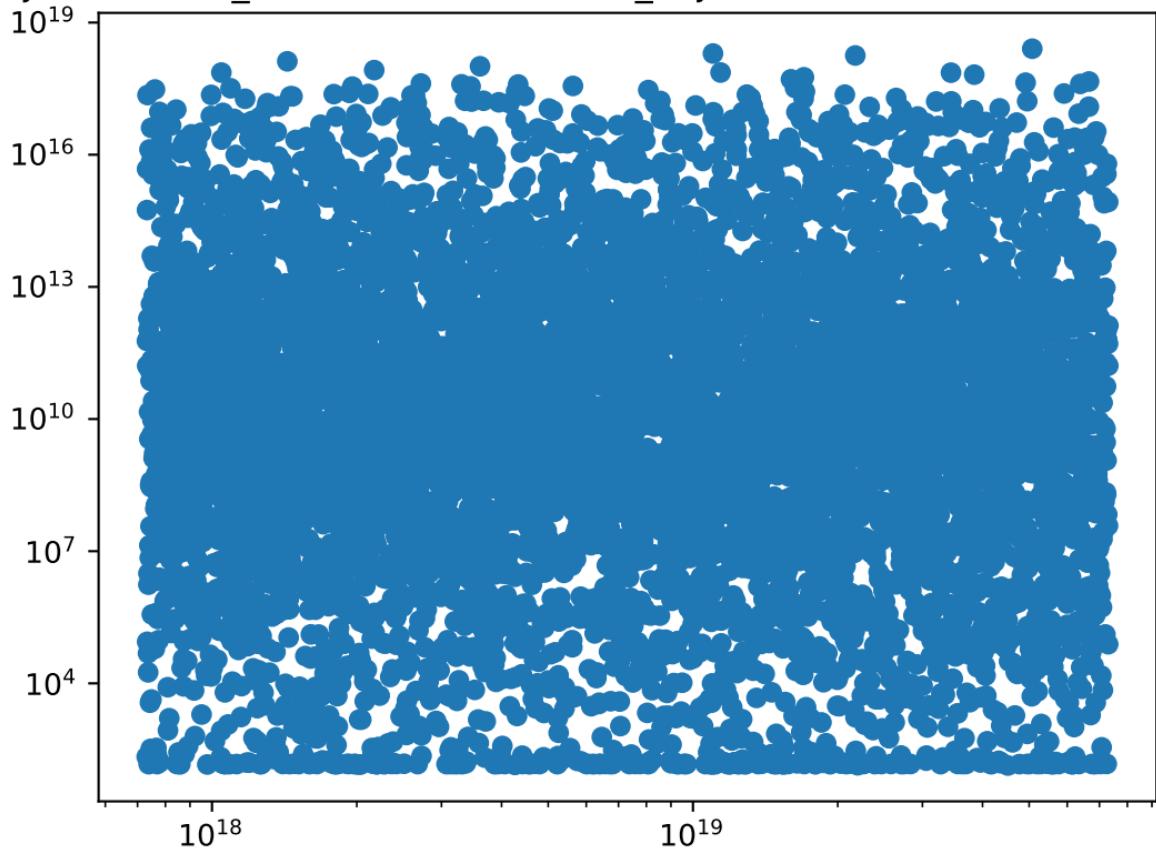
var obj func CPOX_Pt/Deutschmann2006_adjusted/21/CH₂X + HX <=> CH₃X



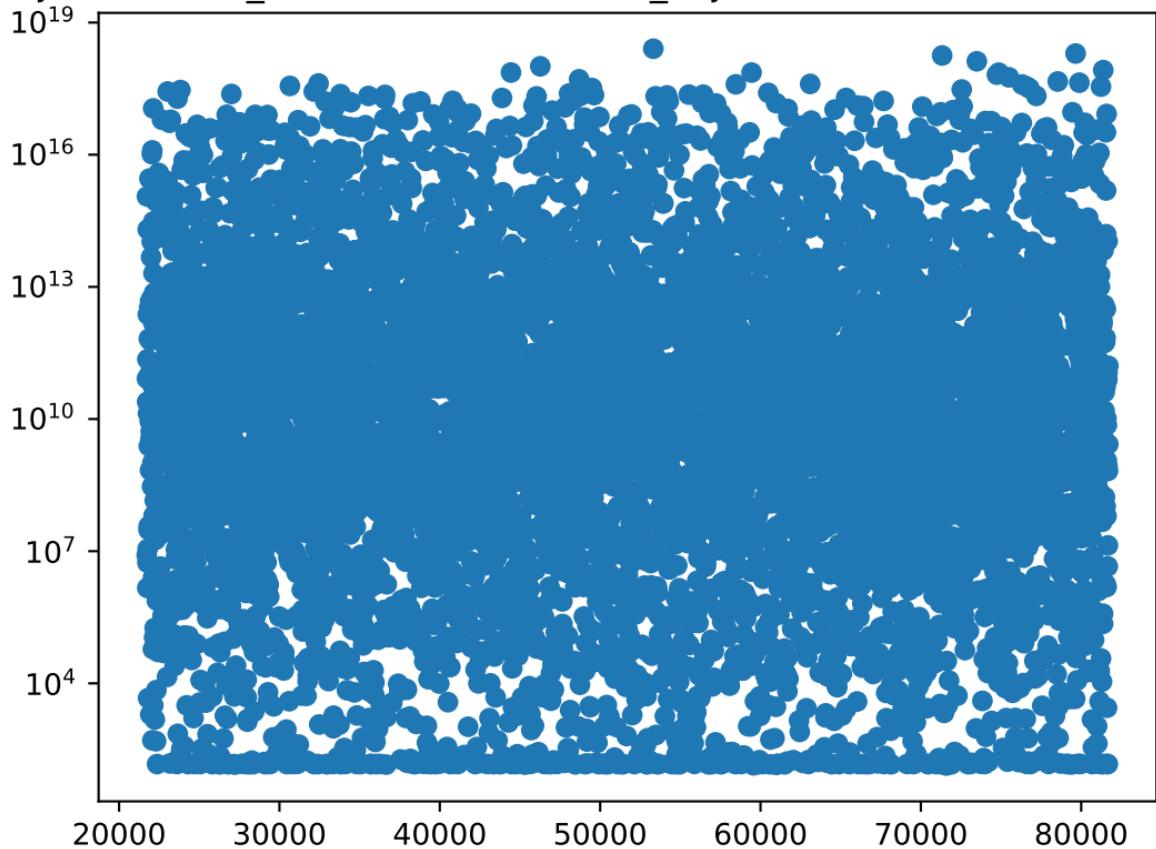
var obj func CPOX_Pt/Deutschmann2006_adjusted/22/CH2X + Pt <=> CHX +



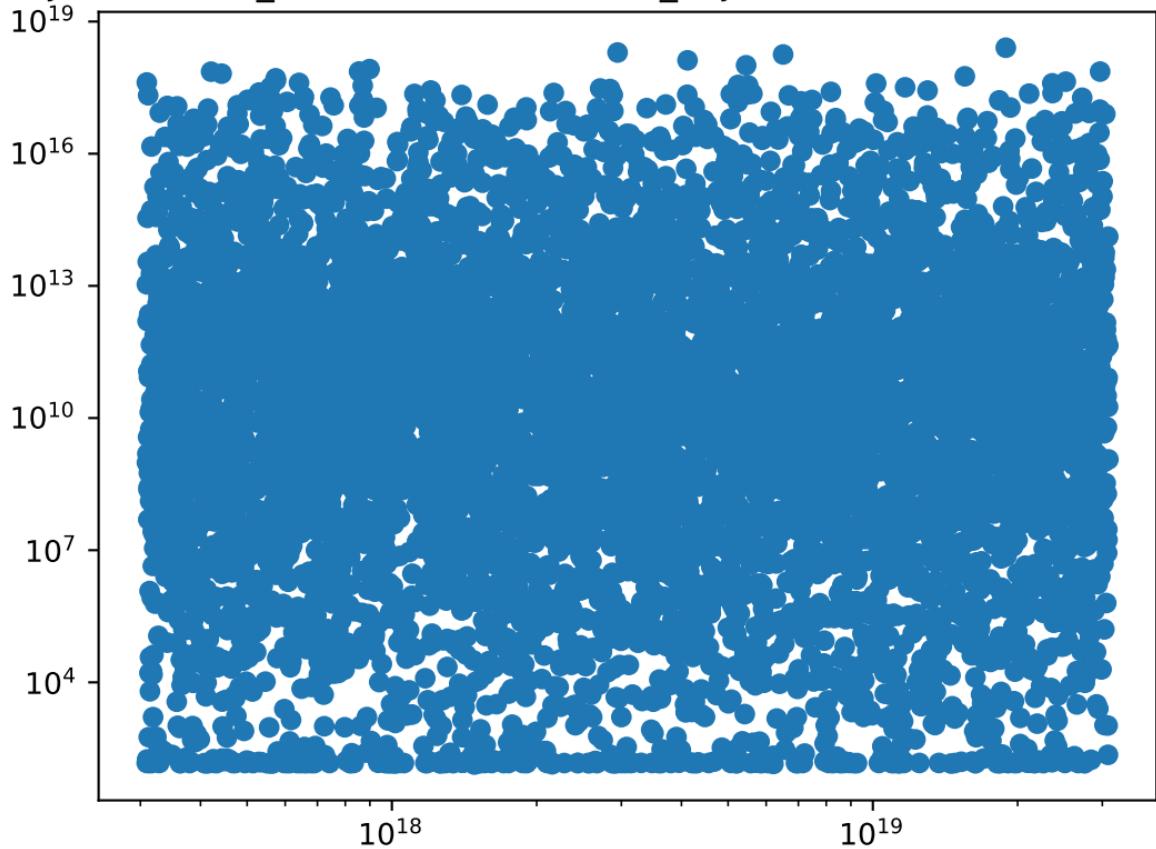
near obj func CPOX_Pt/Deutschmann2006_adjusted/22/CH2X + Pt <=> CHX +



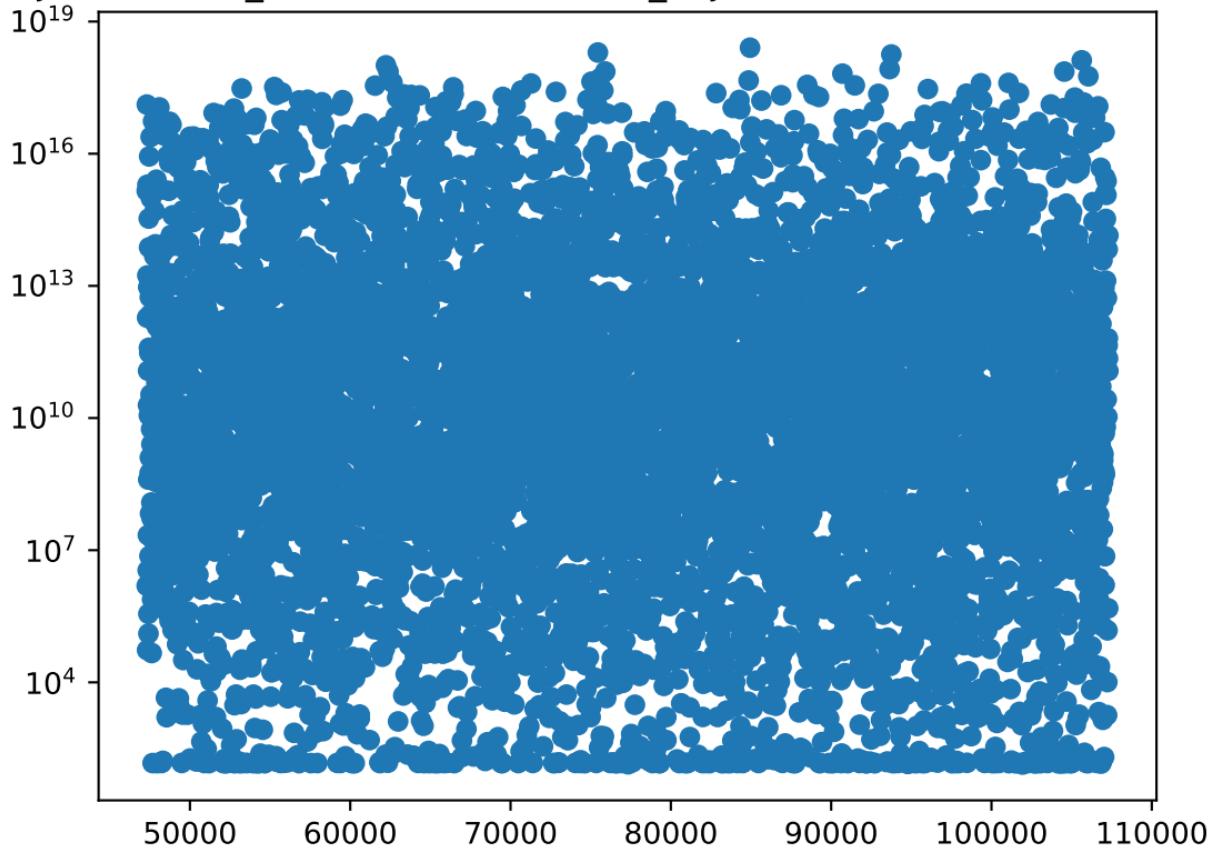
ear obj func CPOX_Pt/Deutschmann2006_adjusted/24/CHX + Pt <=> CX + H



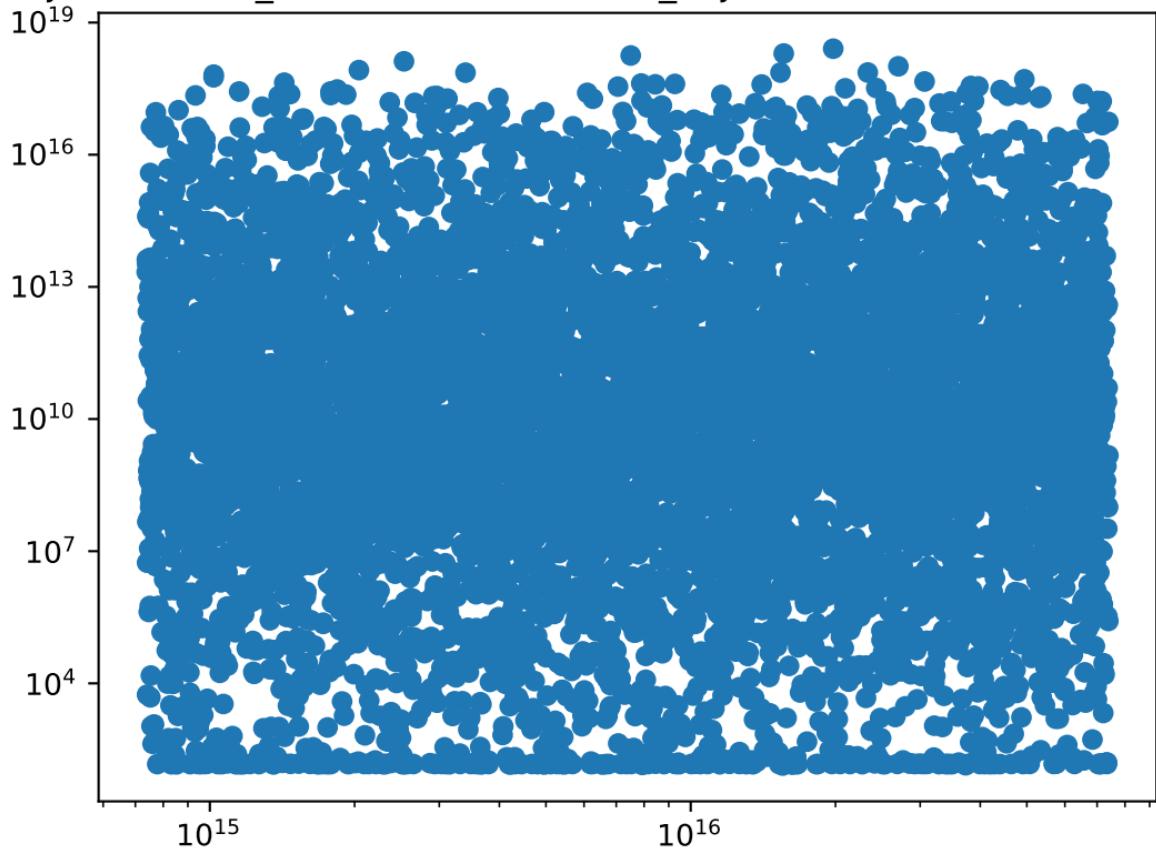
near obj func CPOX_Pt/Deutschmann2006_adjusted/24/CHX + Pt <=> CX + H



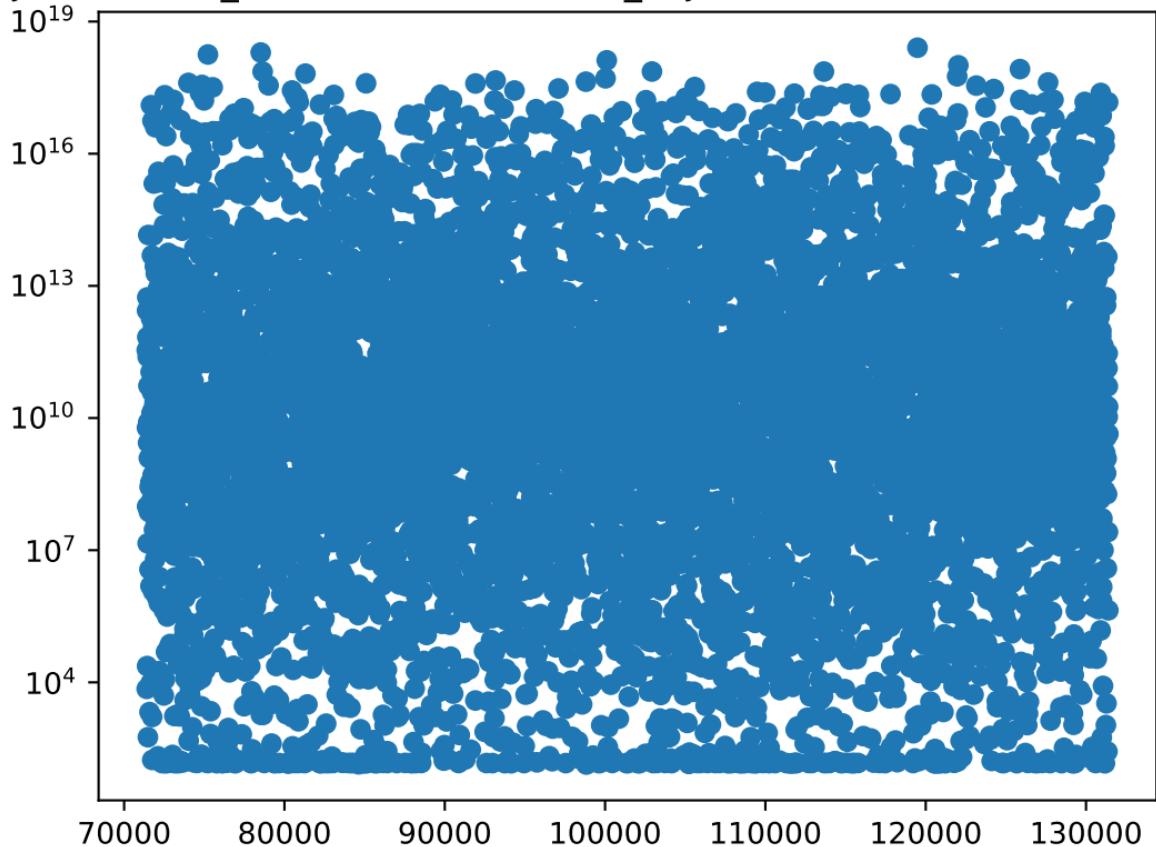
ear obj func CPOX_Pt/Deutschmann2006_adjusted/27/HOX + Pt <=> HX + C



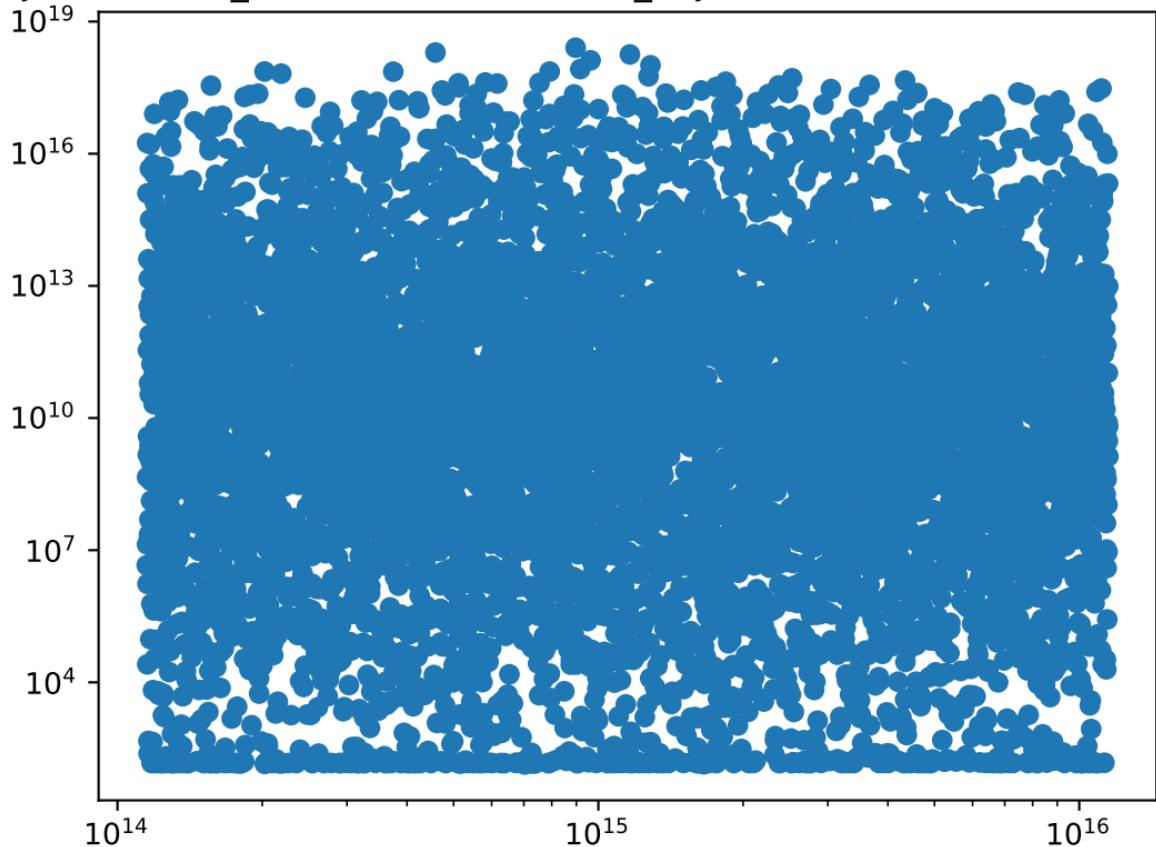
linear obj func CPOX_Pt/Deutschmann2006_adjusted/27/HOX + Pt <=> HX + O



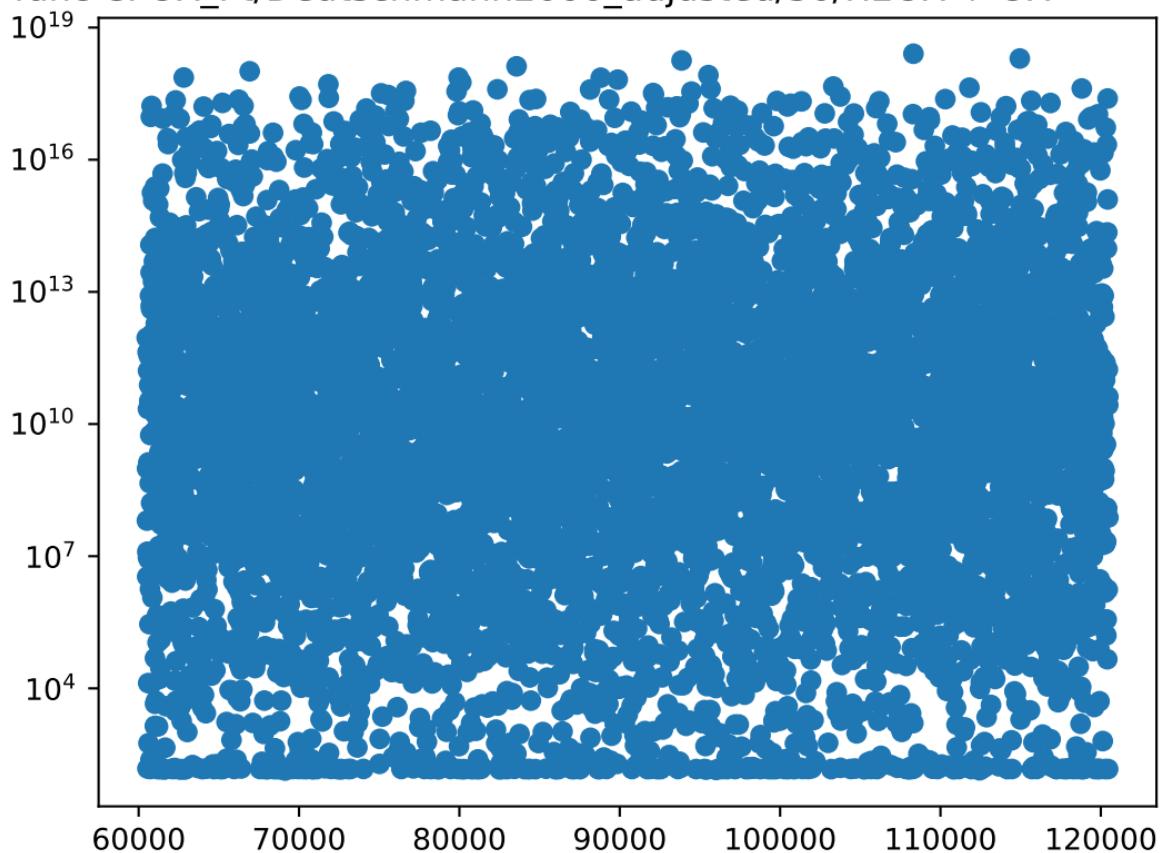
var obj func CPOX_Pt/Deutschmann2006_adjusted/28/H2OX + Pt <=> HX + H



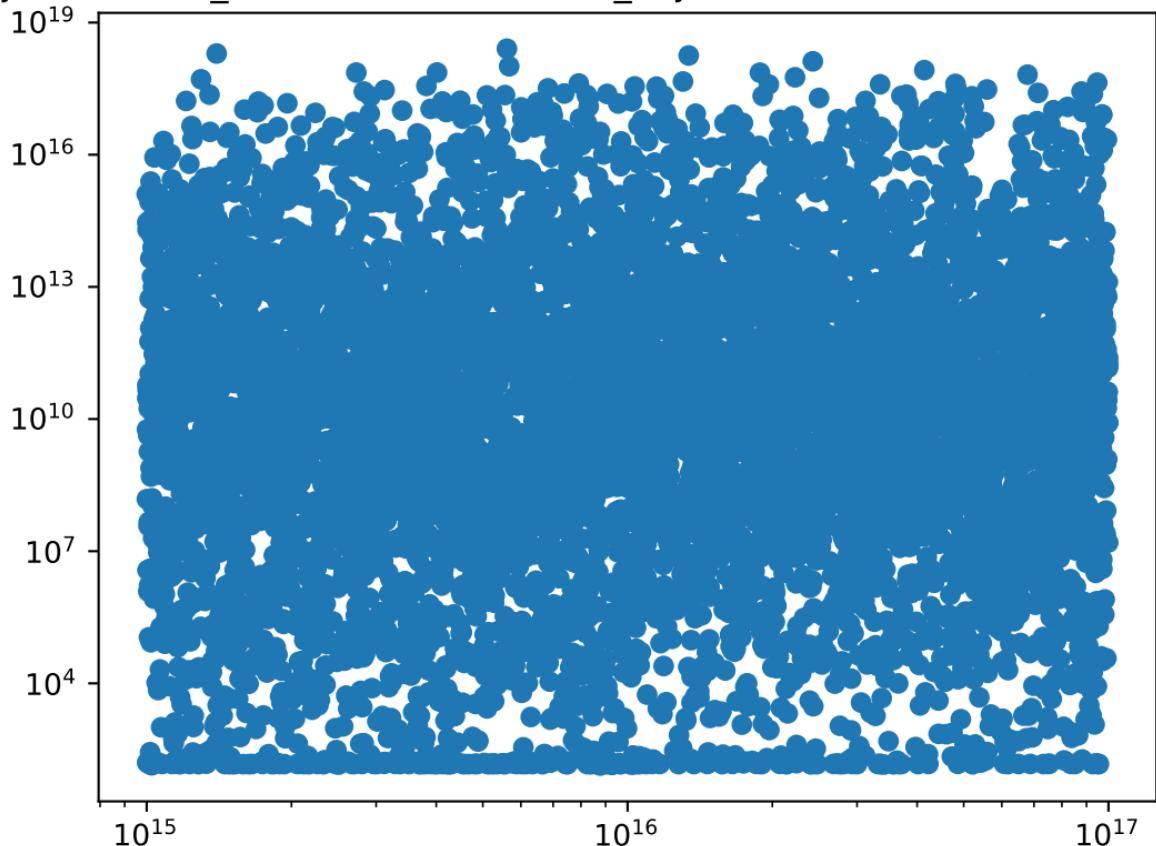
var obj func CPOX_Pt/Deutschmann2006_adjusted/28/H2OX + Pt <=> HX + H



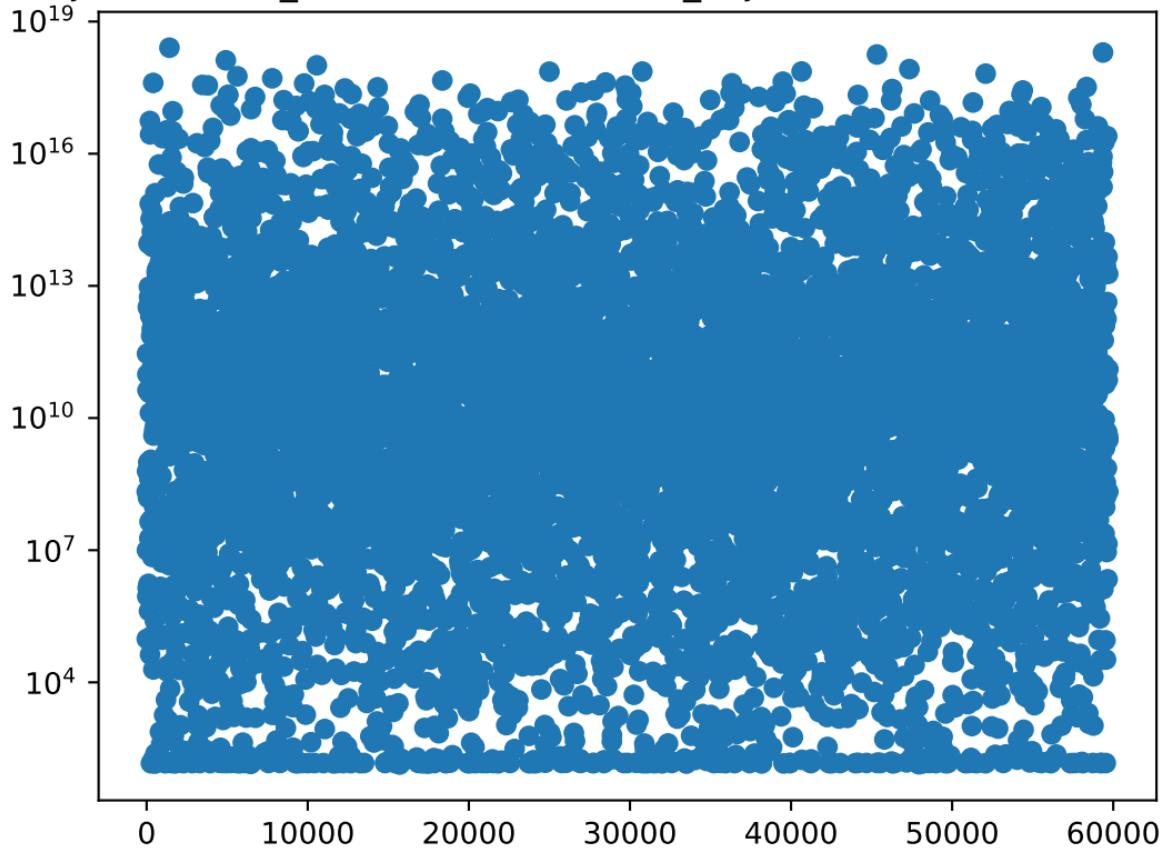
for obj func CPOX_Pt/Deutschmann2006_adjusted/30/H2OX + OX <=> HOX +



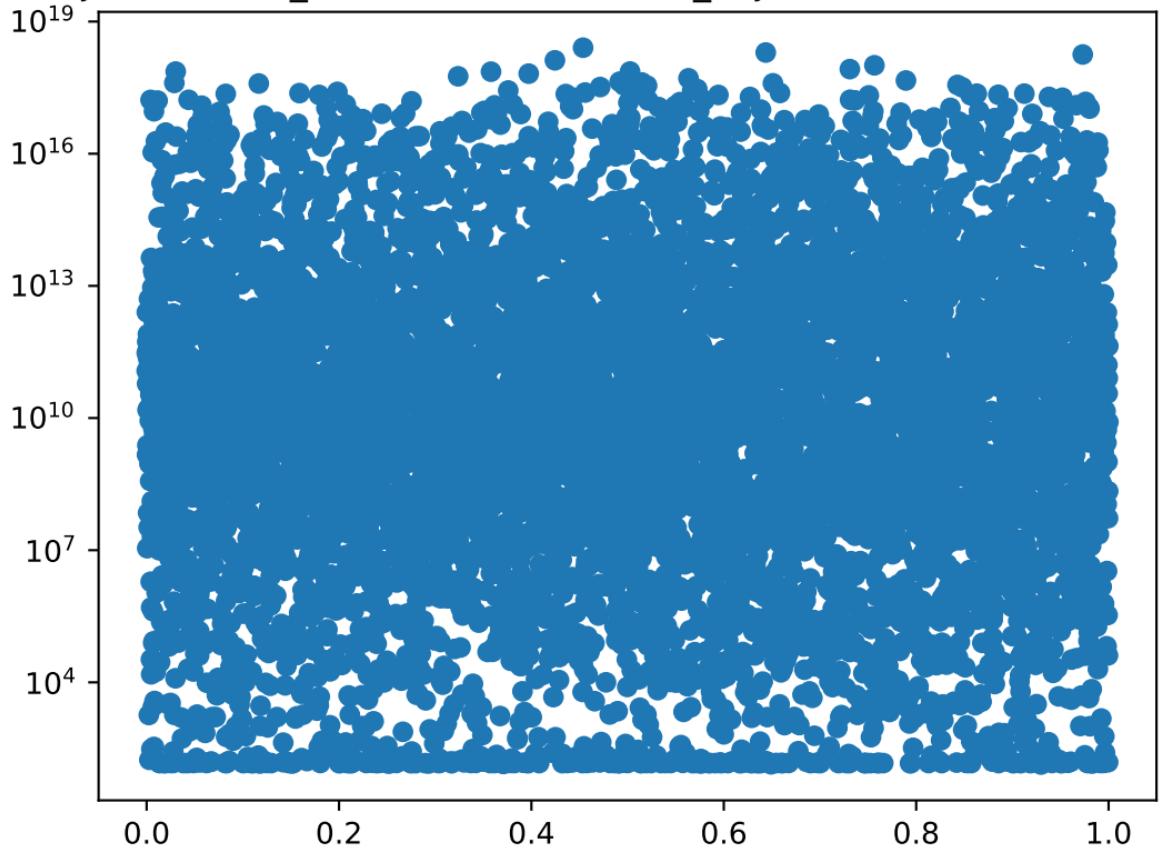
ur obj func CPOX_Pt/Deutschmann2006_adjusted/30/H₂OX + OX <=> HOX +



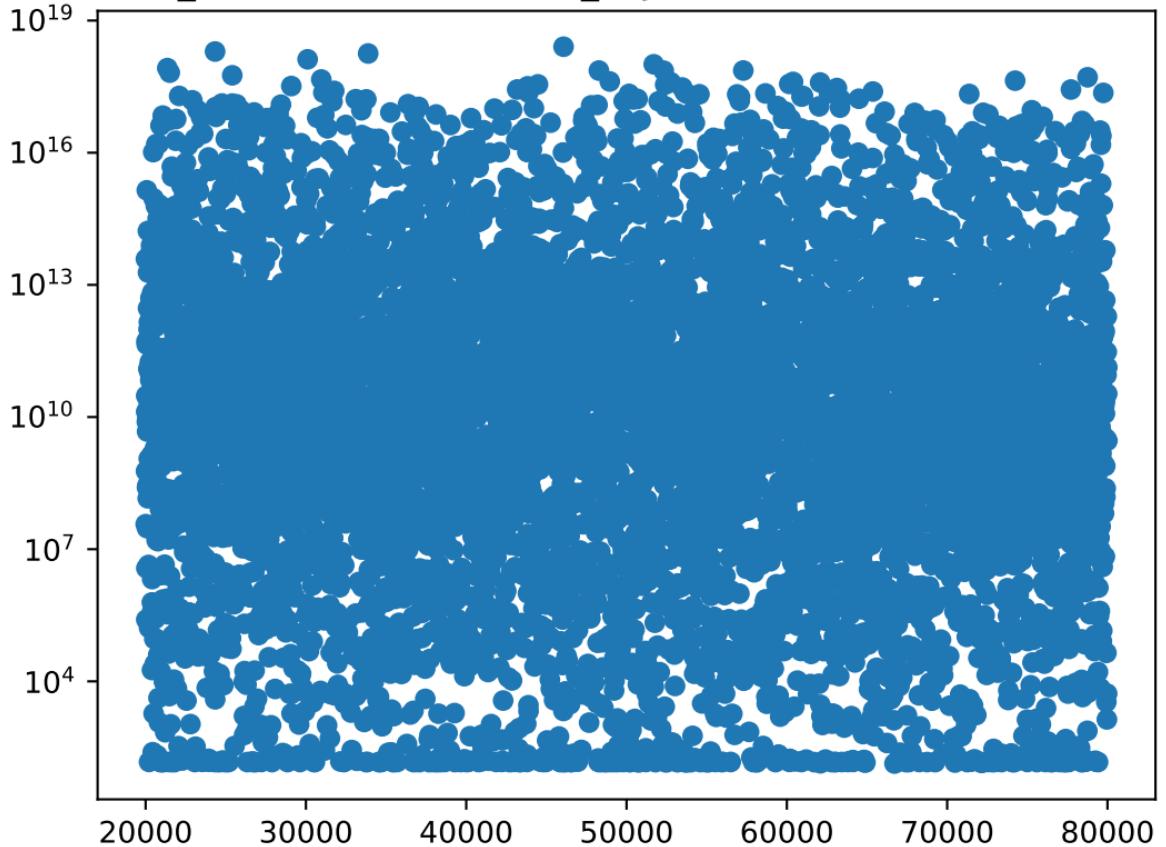
linear obj func CPOX_Pt/Deutschmann2006_adjusted/31/H2 + CX <=> CH2X/



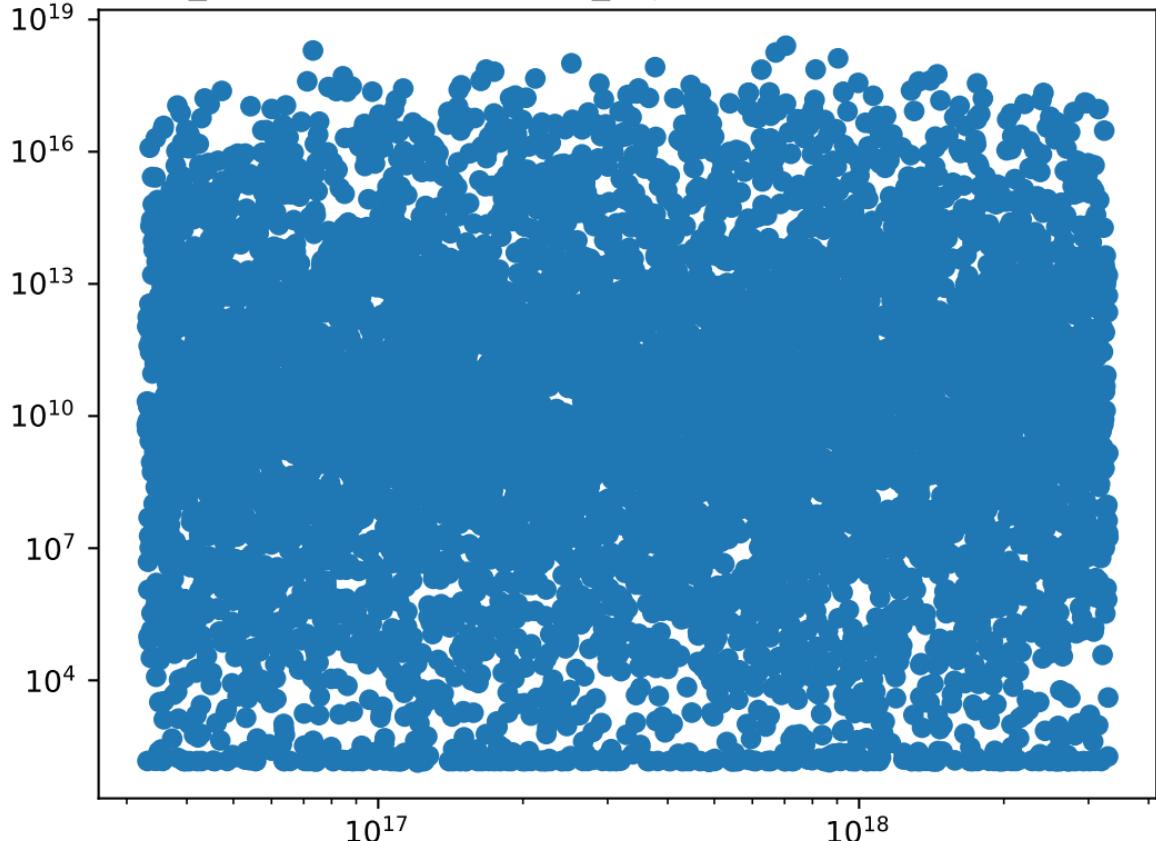
linear obj func CPOX_Pt/Deutschmann2006_adjusted/31/H2 + CX <=> CH2X



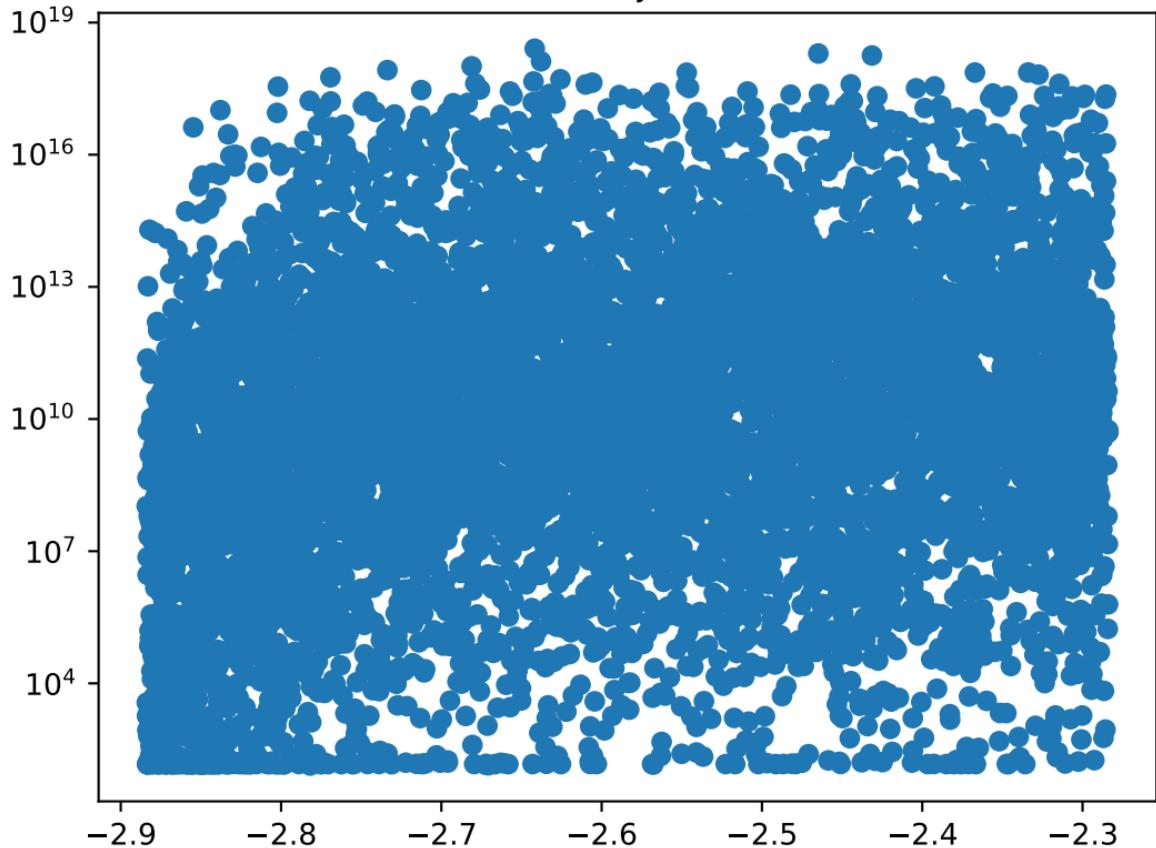
obj func CPOX_Pt/Deutschmann2006_adjusted/34/CH3X + HX <=> CH4 + Pt



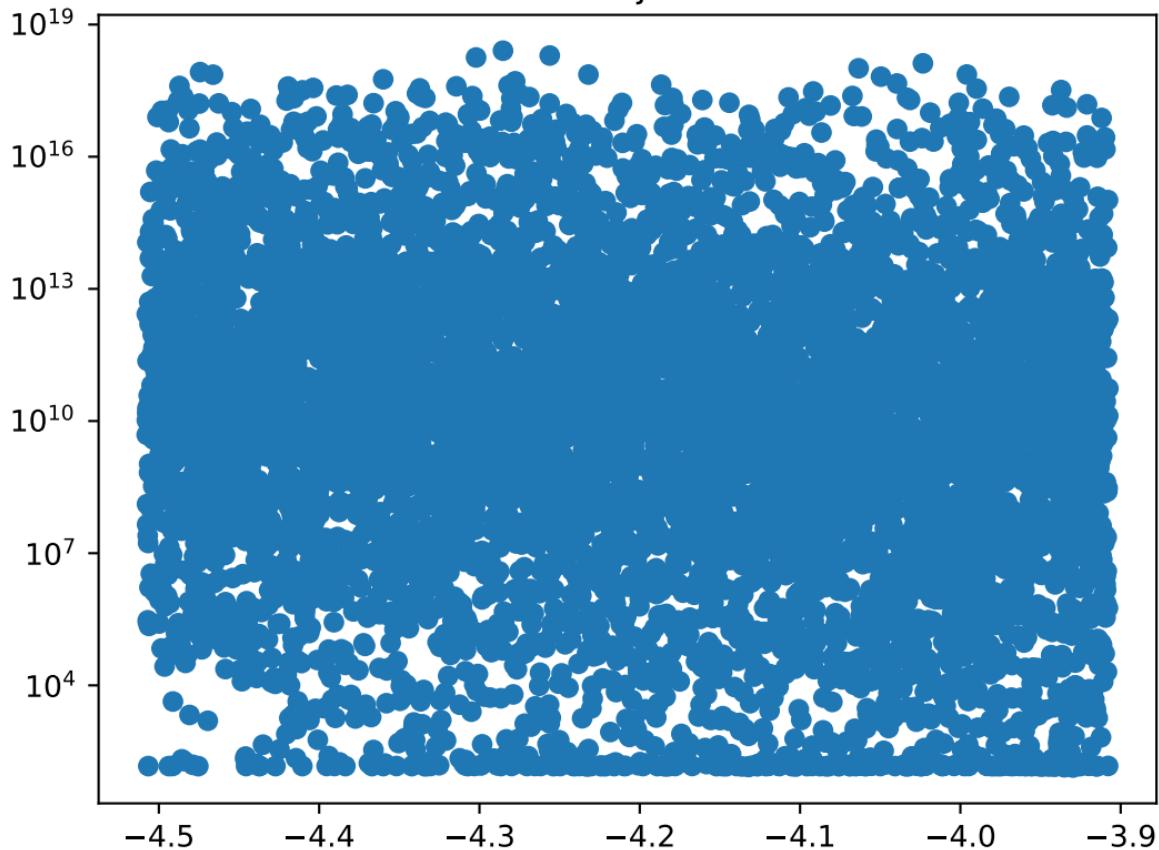
obj func CPOX_Pt/Deutschmann2006_adjusted/34/CH₃X + HX <=> CH₄ + P



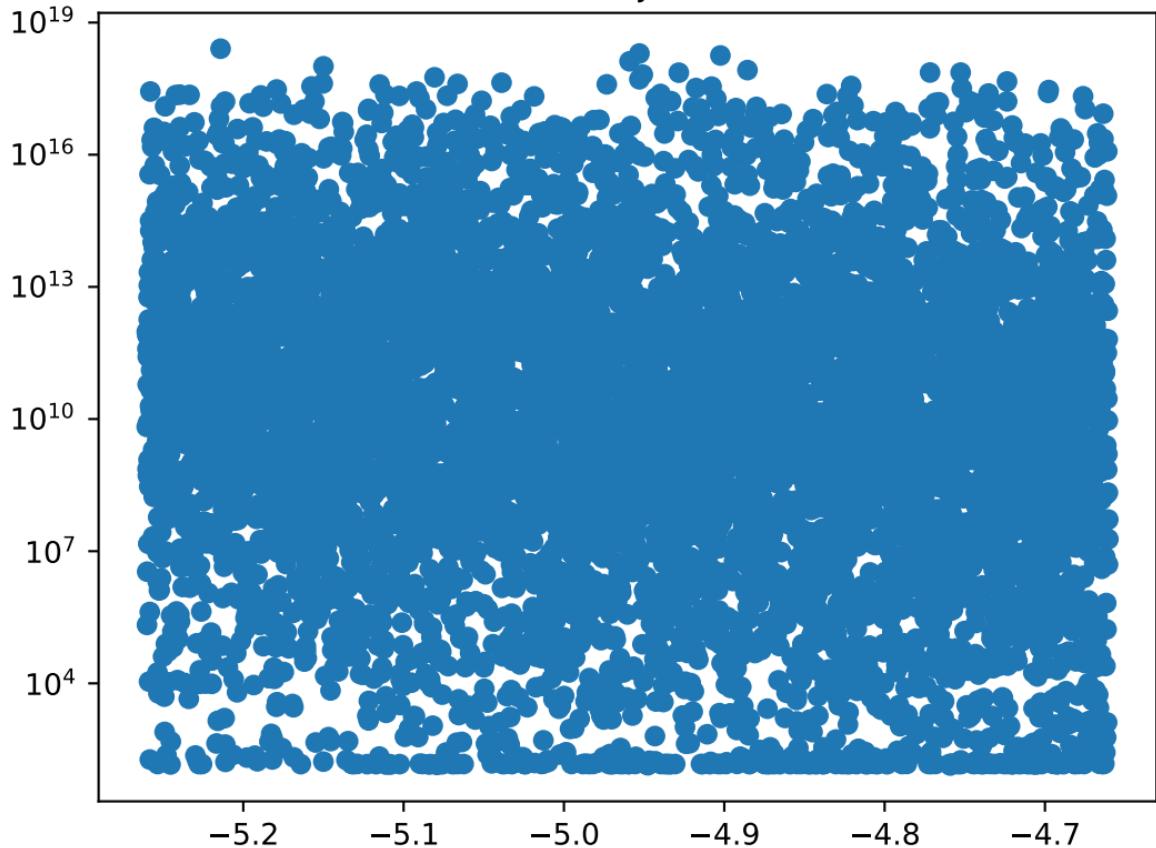
linear obj func H



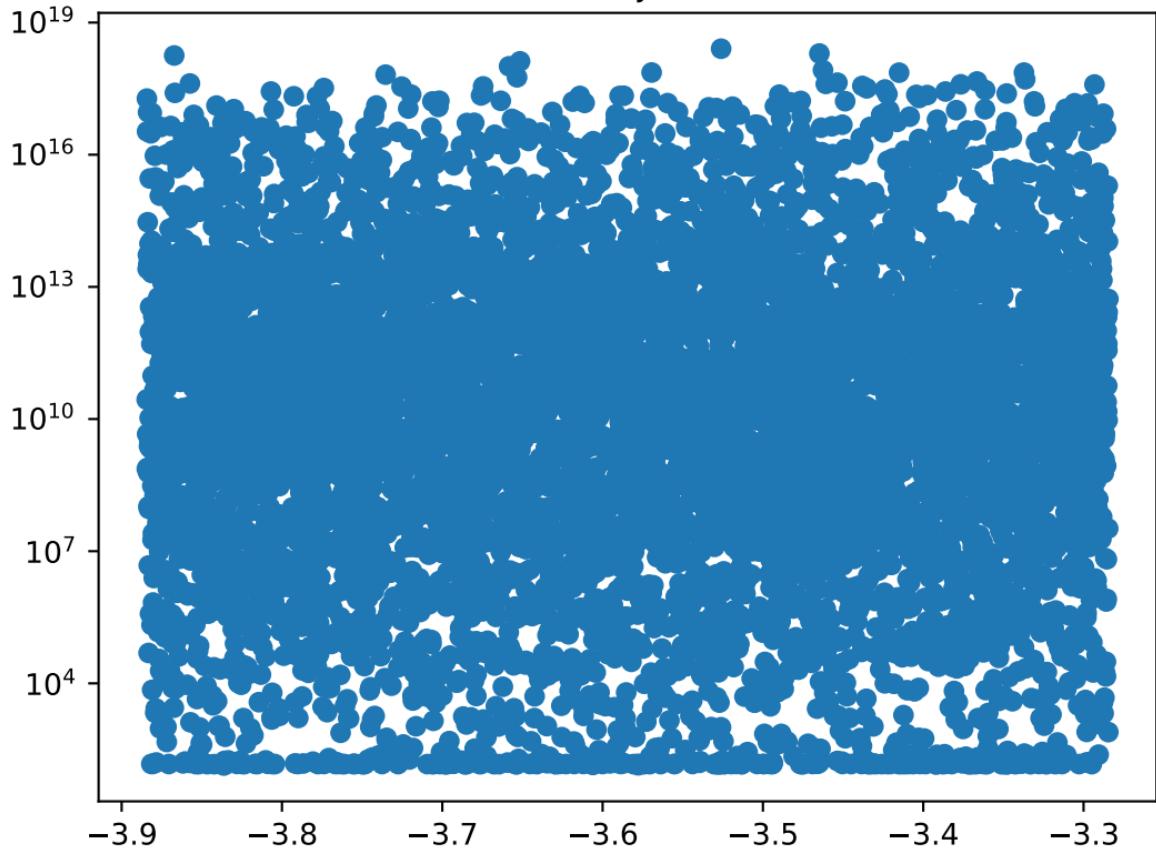
linear obj func O



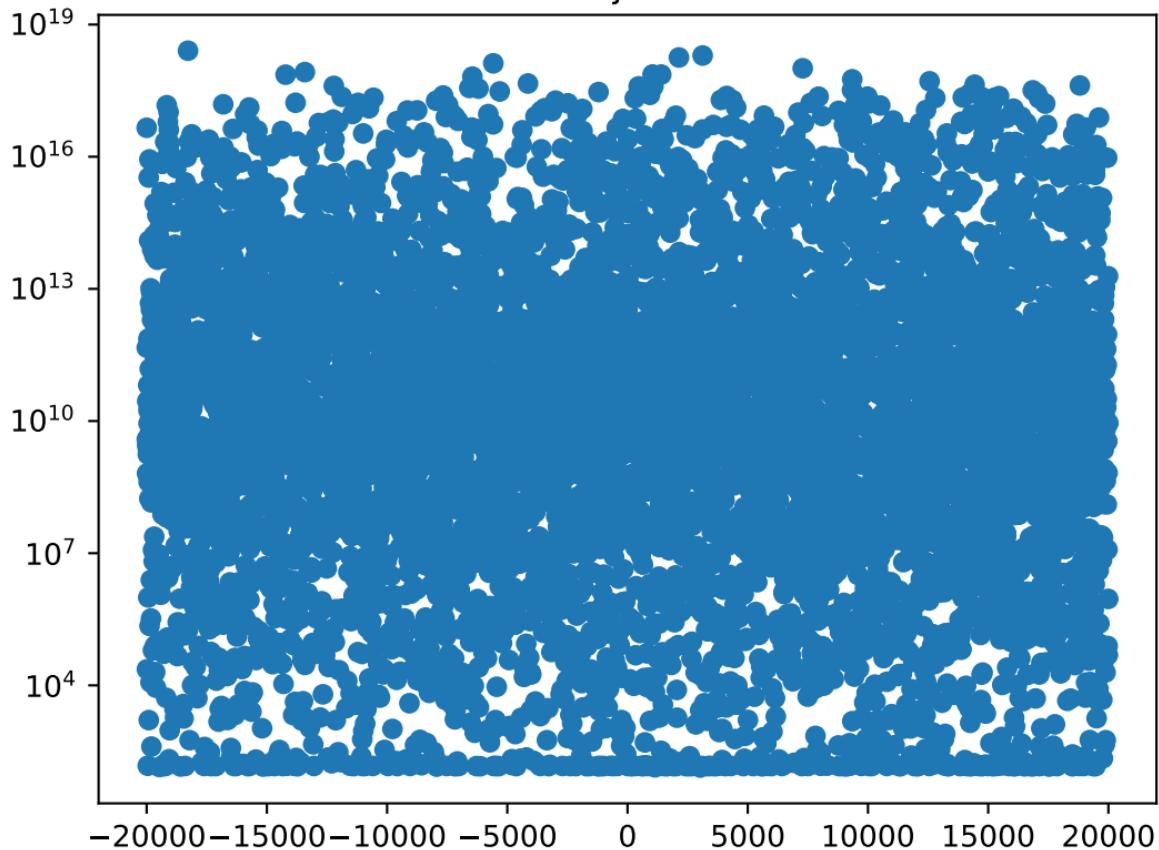
linear obj func C



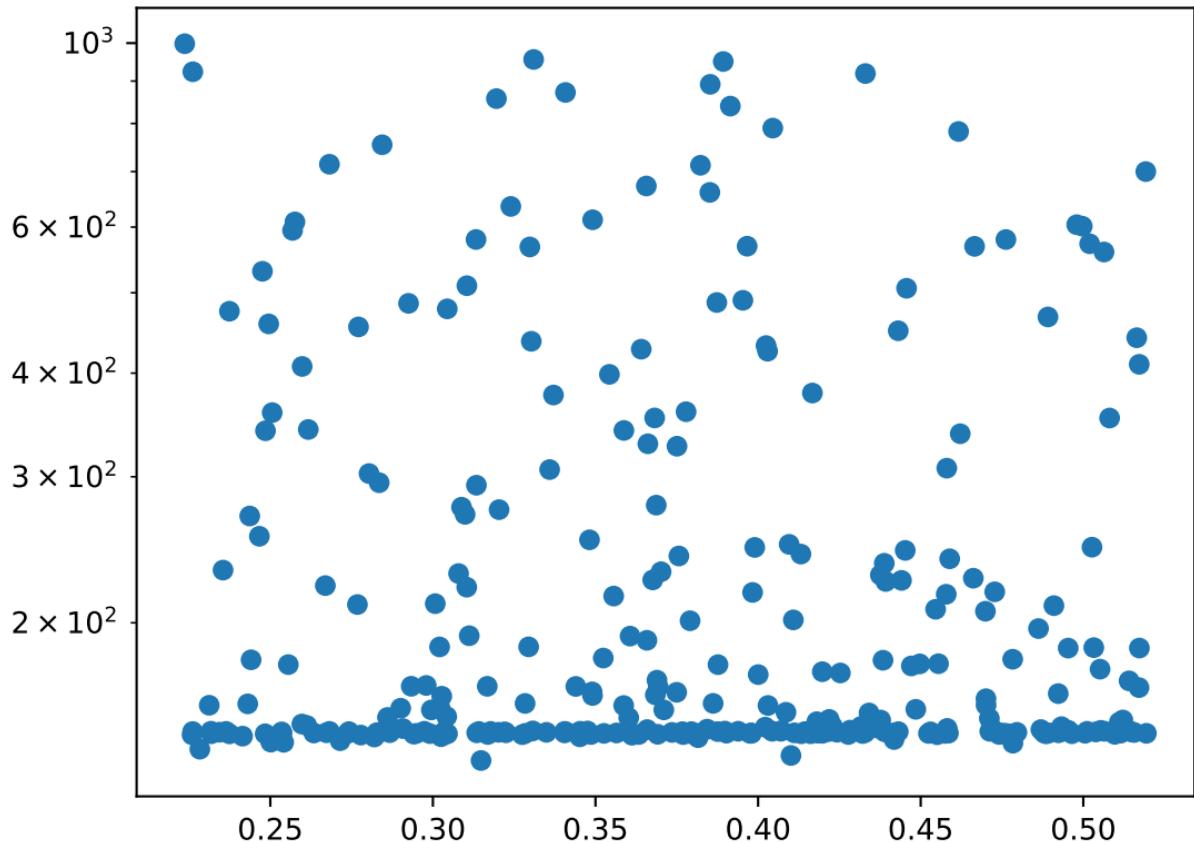
linear obj func N



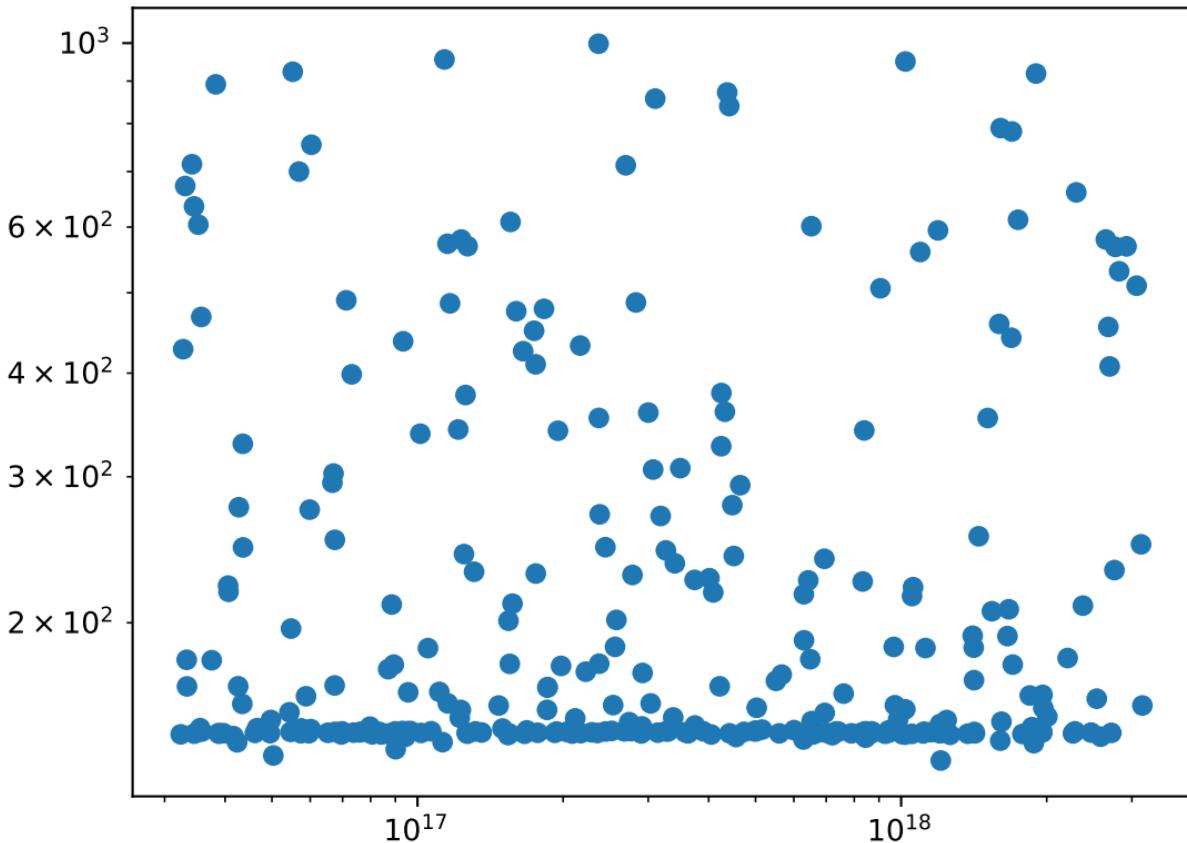
linear obj func Vdw



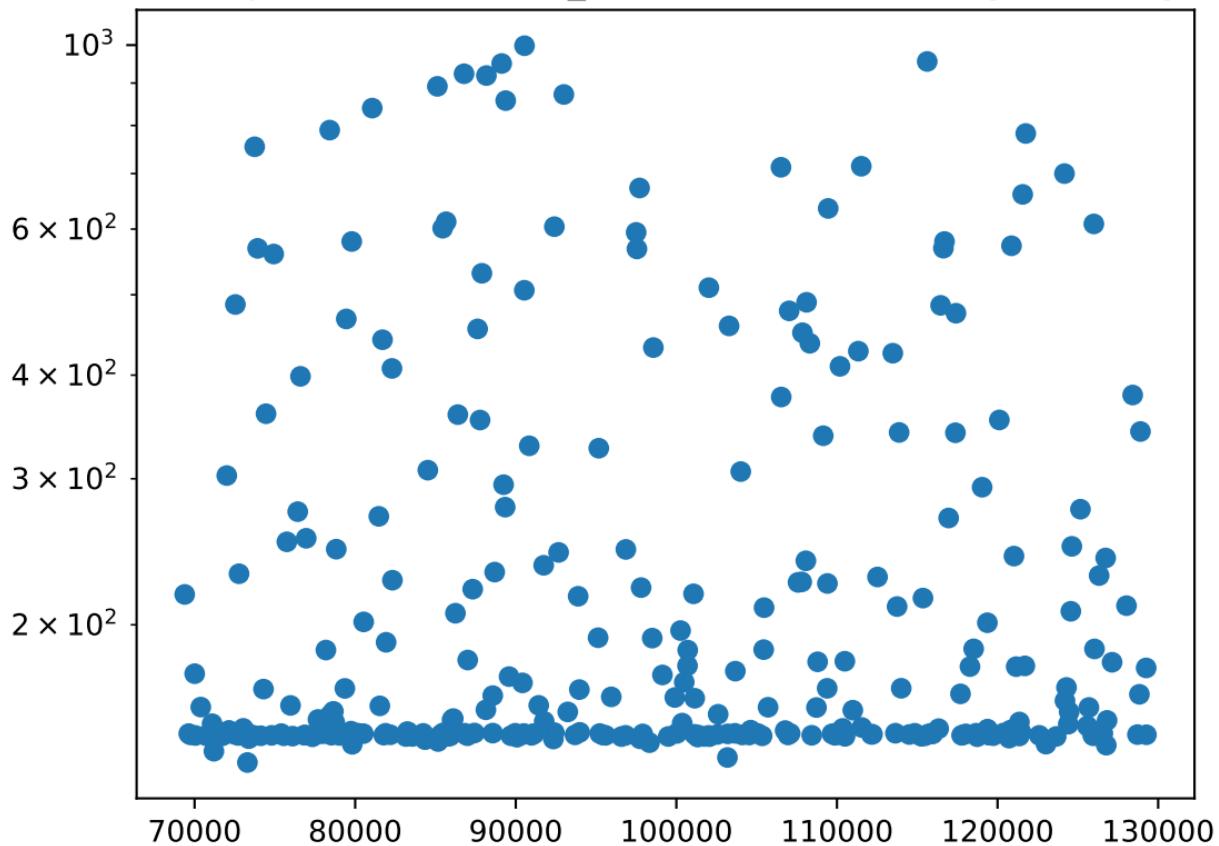
linear obj func low Surface_Abstraction/Abstracting;Donating/alpha



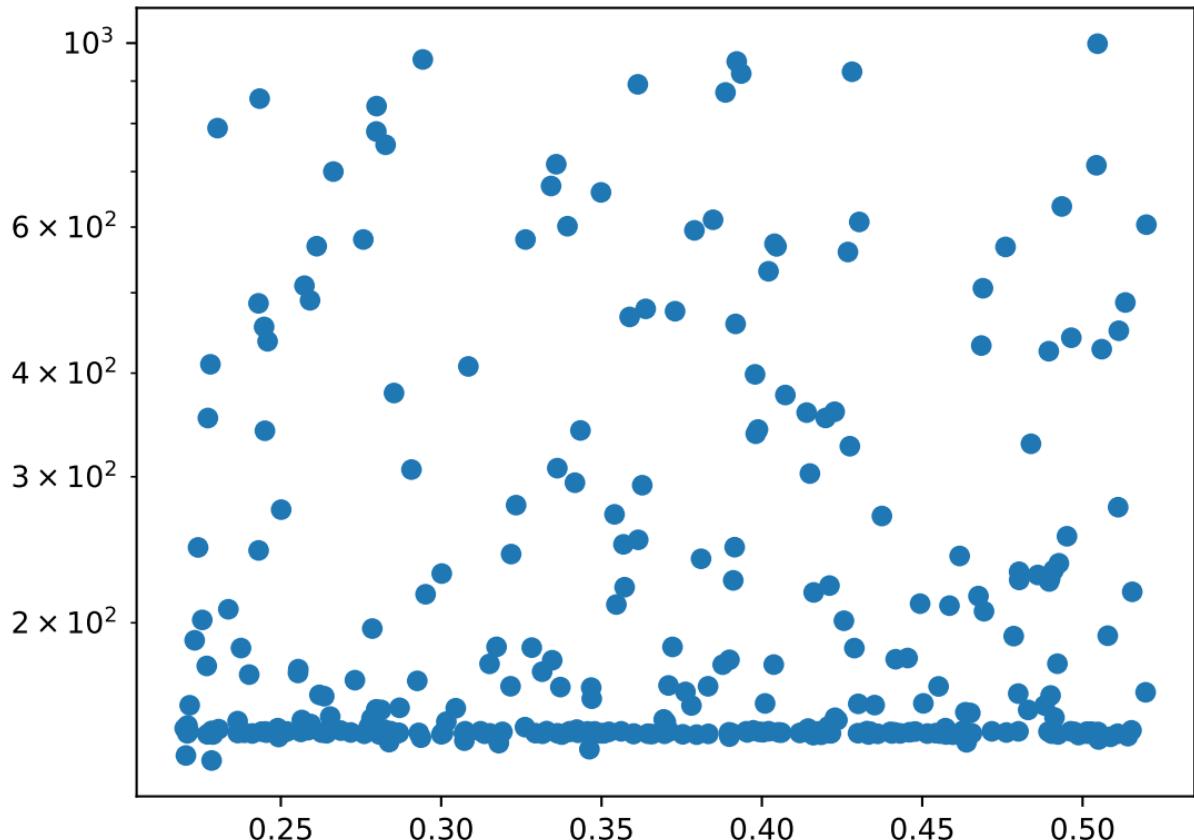
linear obj func low Surface_Abstraction/Abstracting;Donating/A



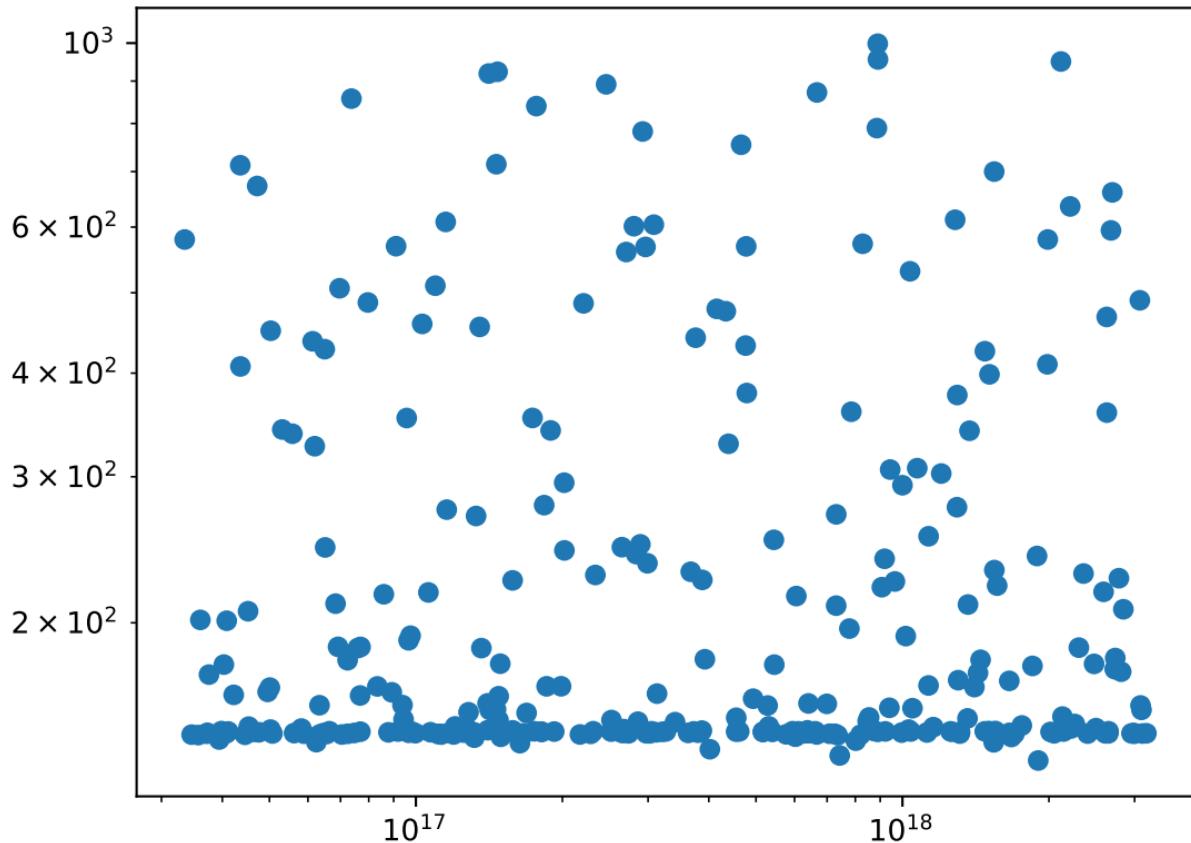
linear obj func low Surface_Abstraction/Abstracting;Donating/E0



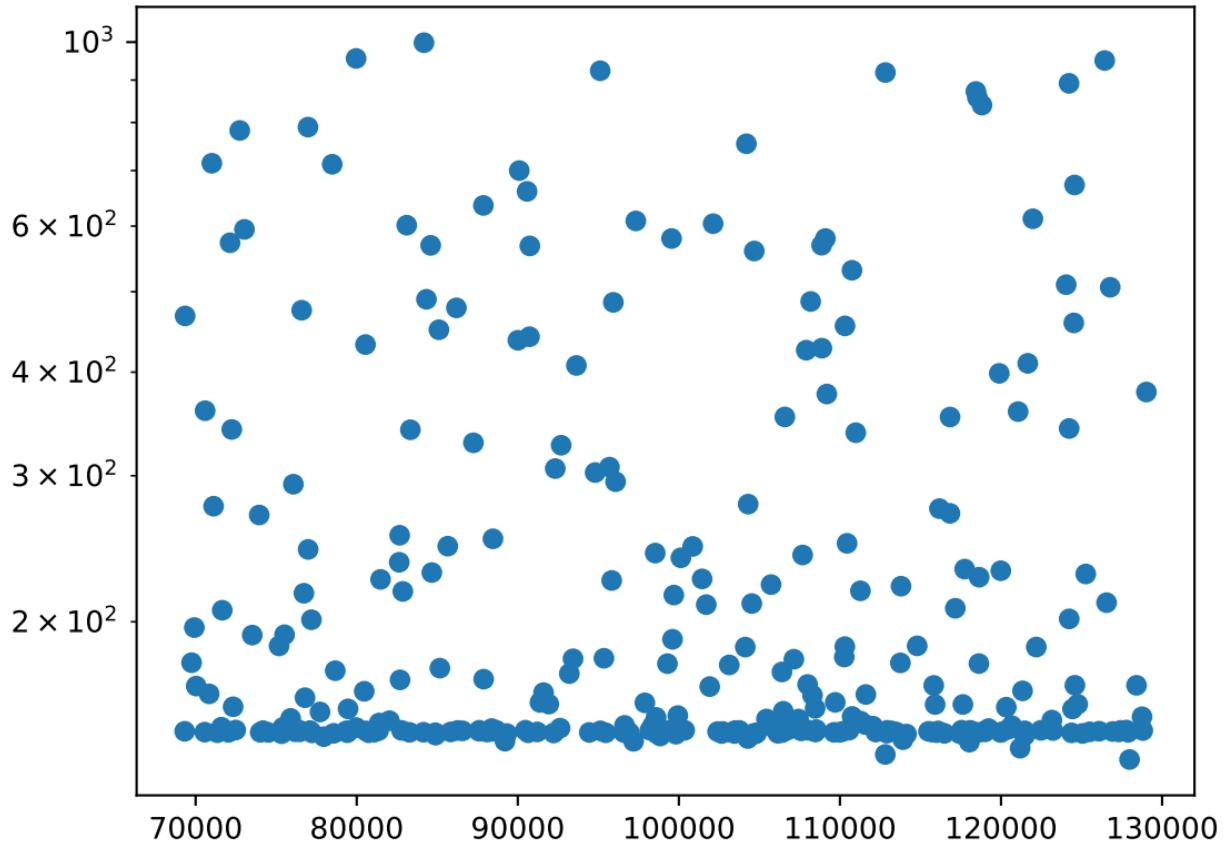
linear obj func low Surface_Abstraction/Abstracting;*R-H/alpha



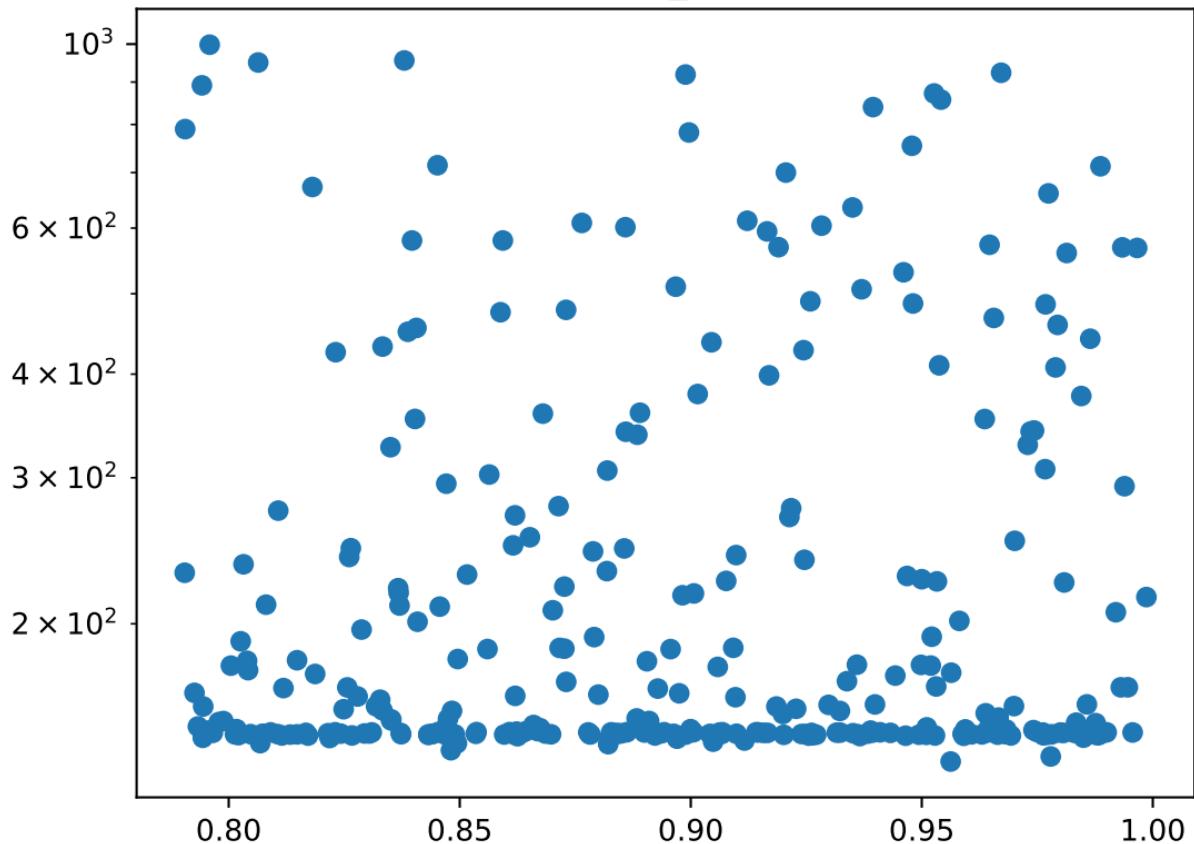
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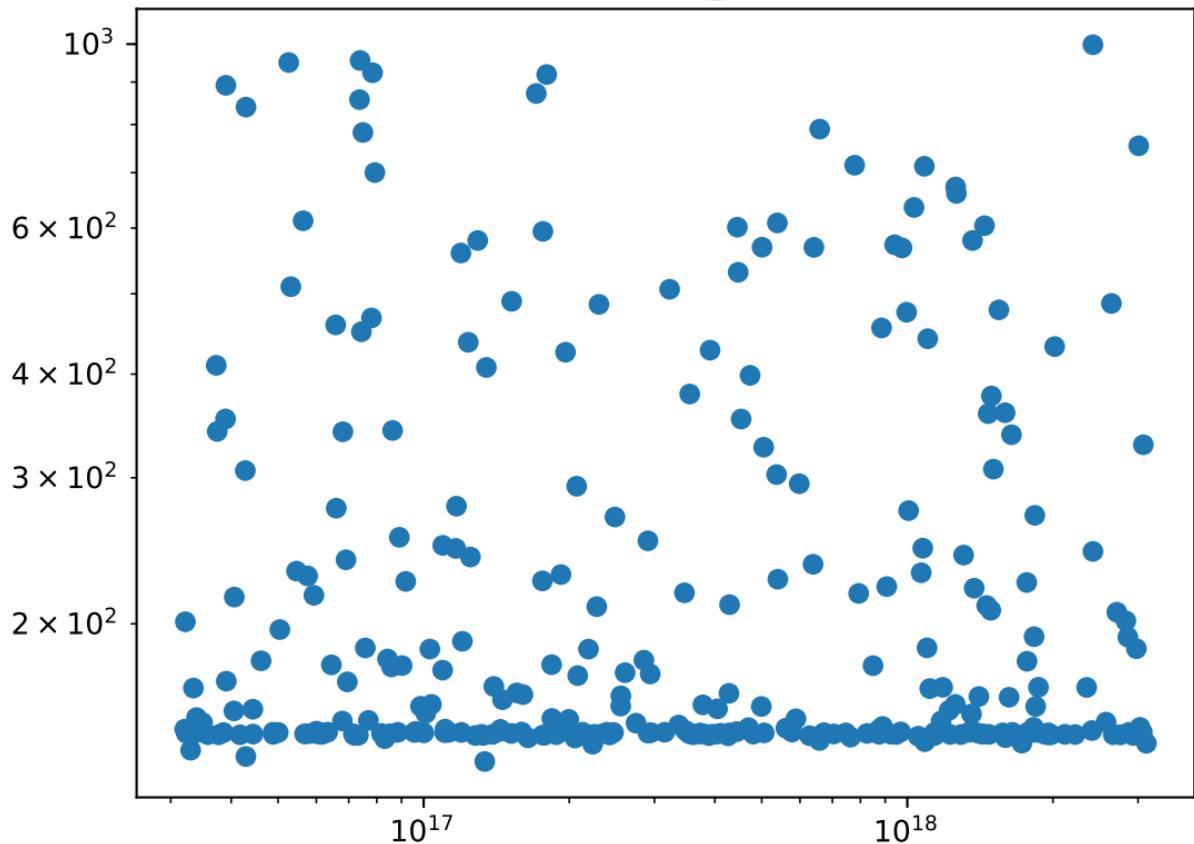
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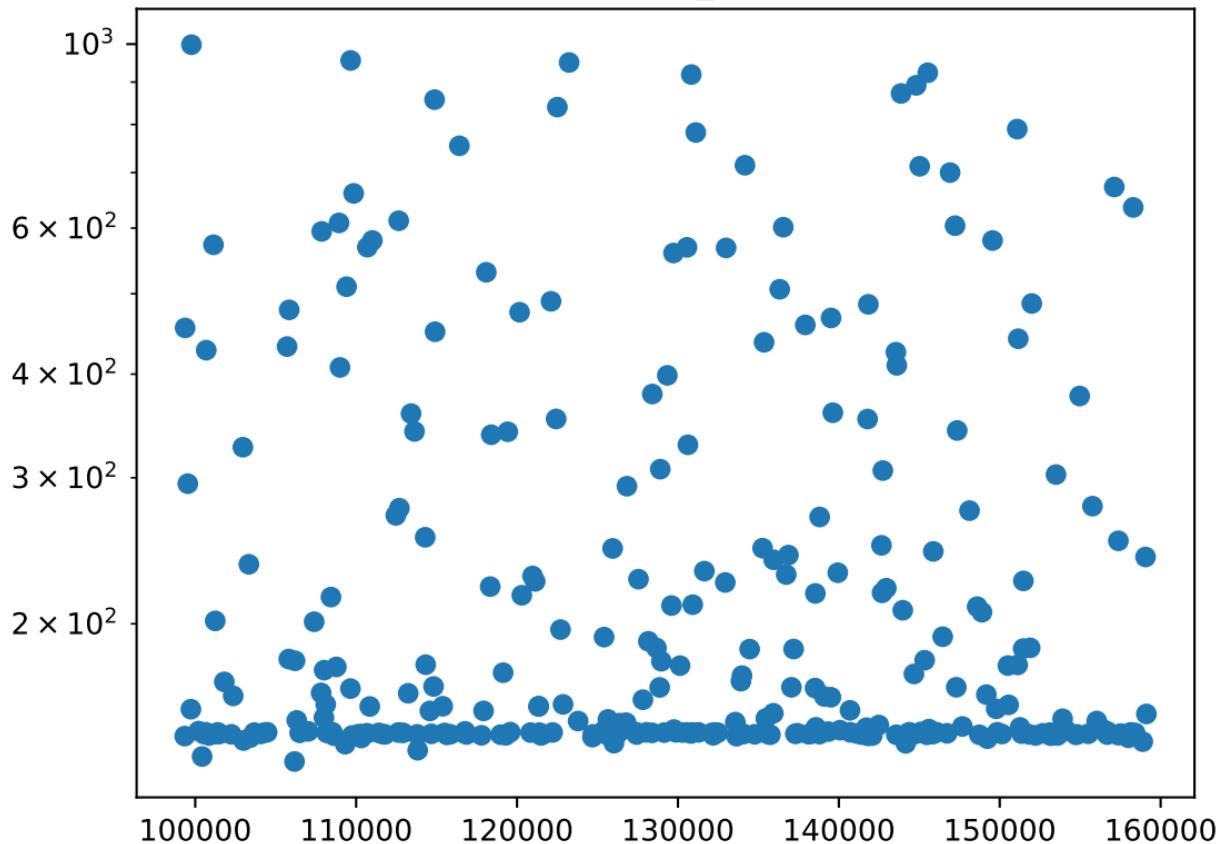
linear obj func low Surface_Abstraction/O;*C-H/alpha



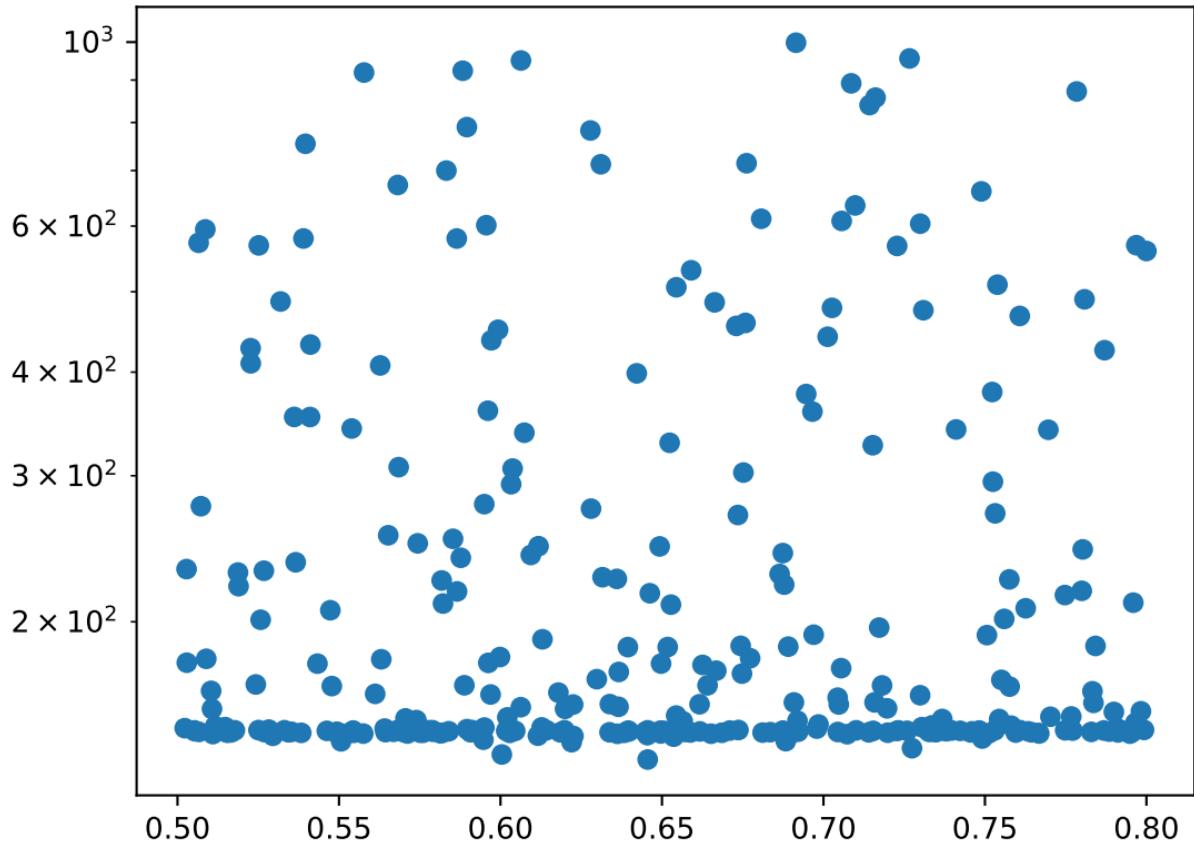
linear obj func low Surface_Abstraction/O;*C-H/A



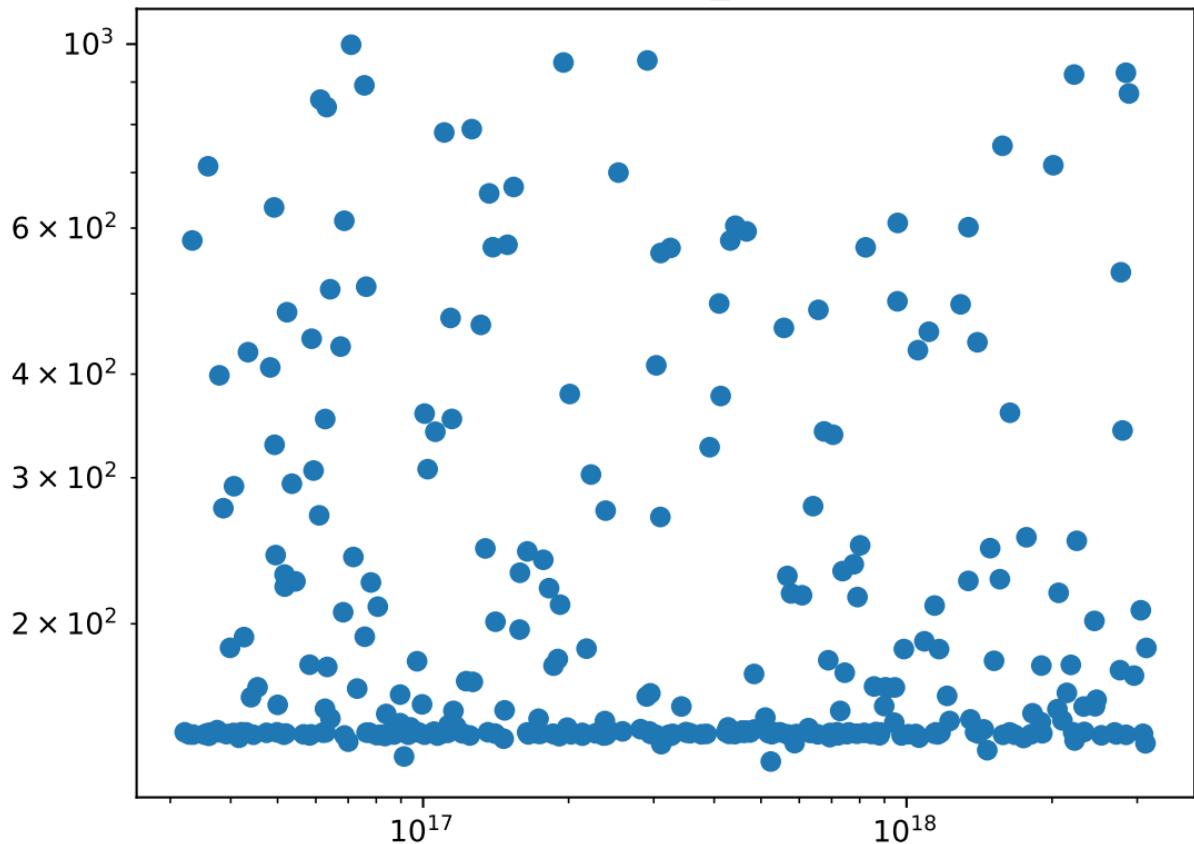
linear obj func low Surface_Abstraction/O;*C-H/E0



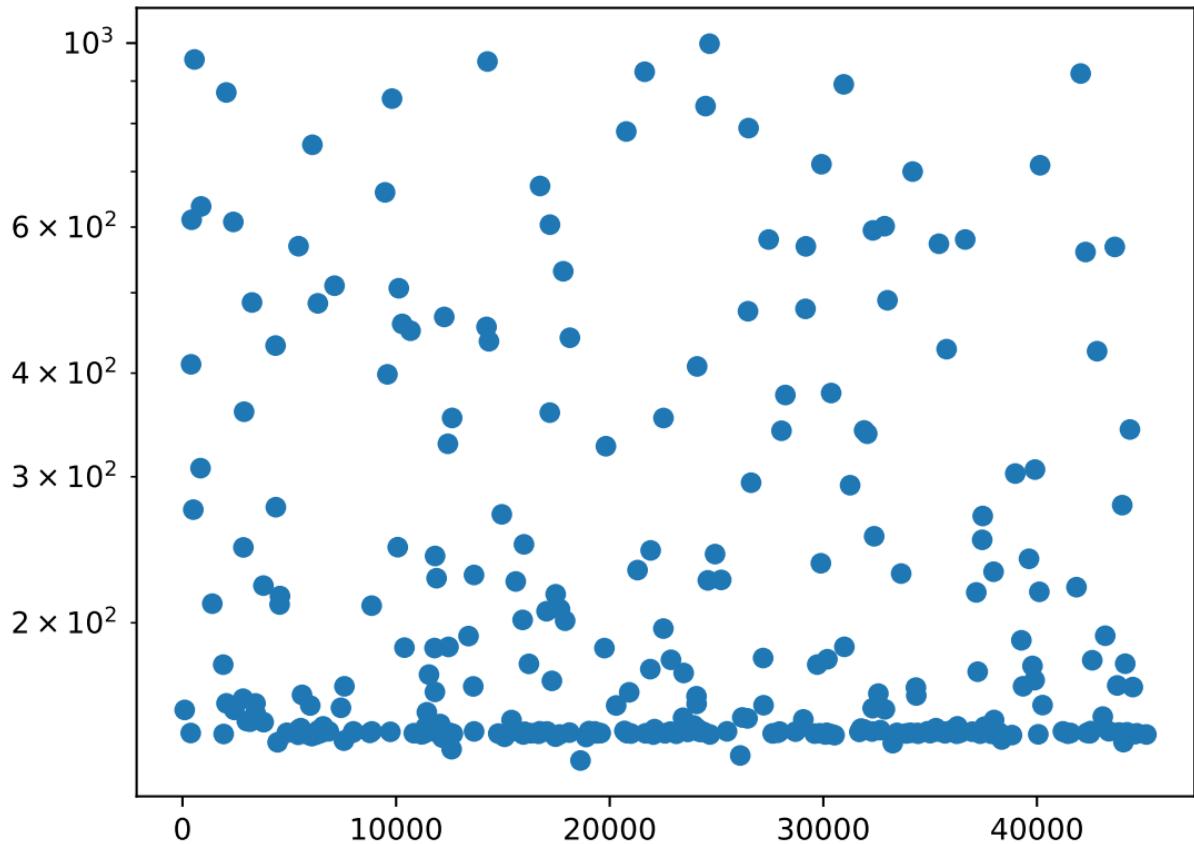
linear obj func low Surface_Abstraction/O;*OH/alpha



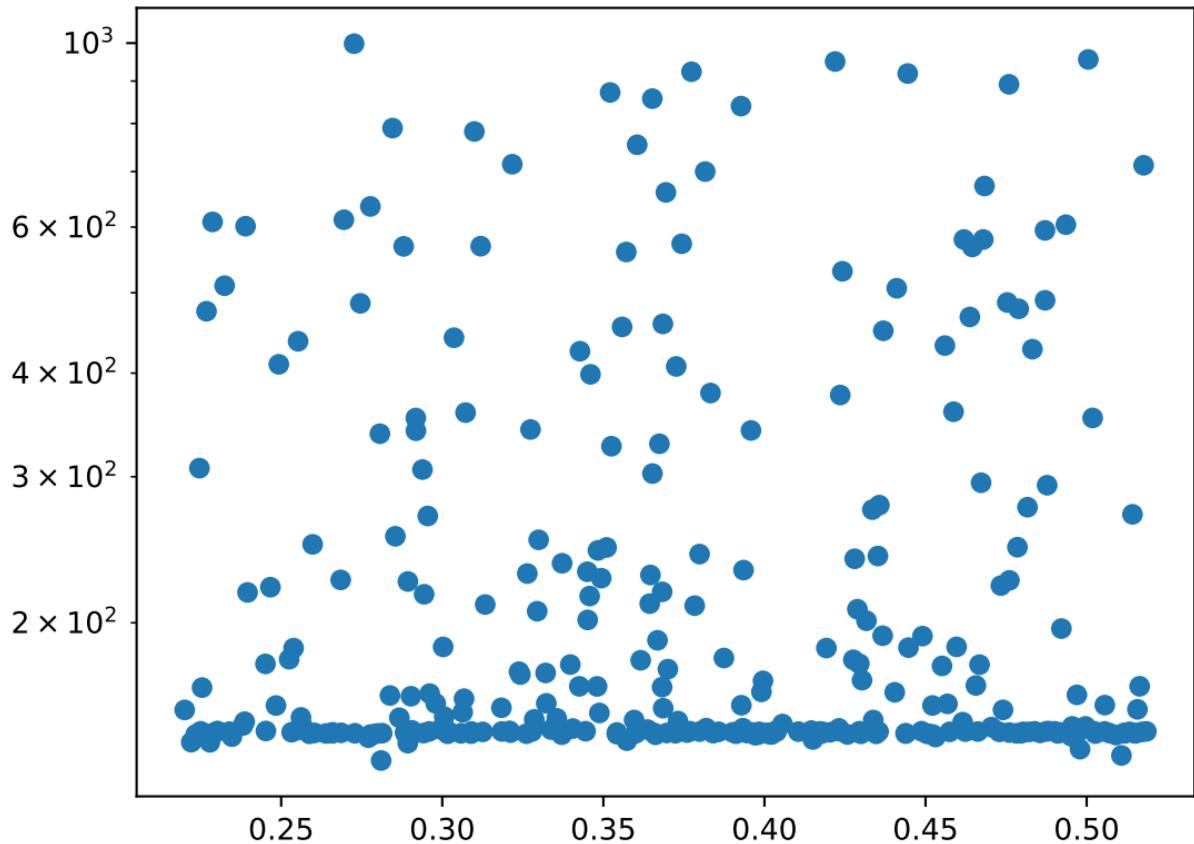
linear obj func low Surface_Abstraction/O;*OH/A



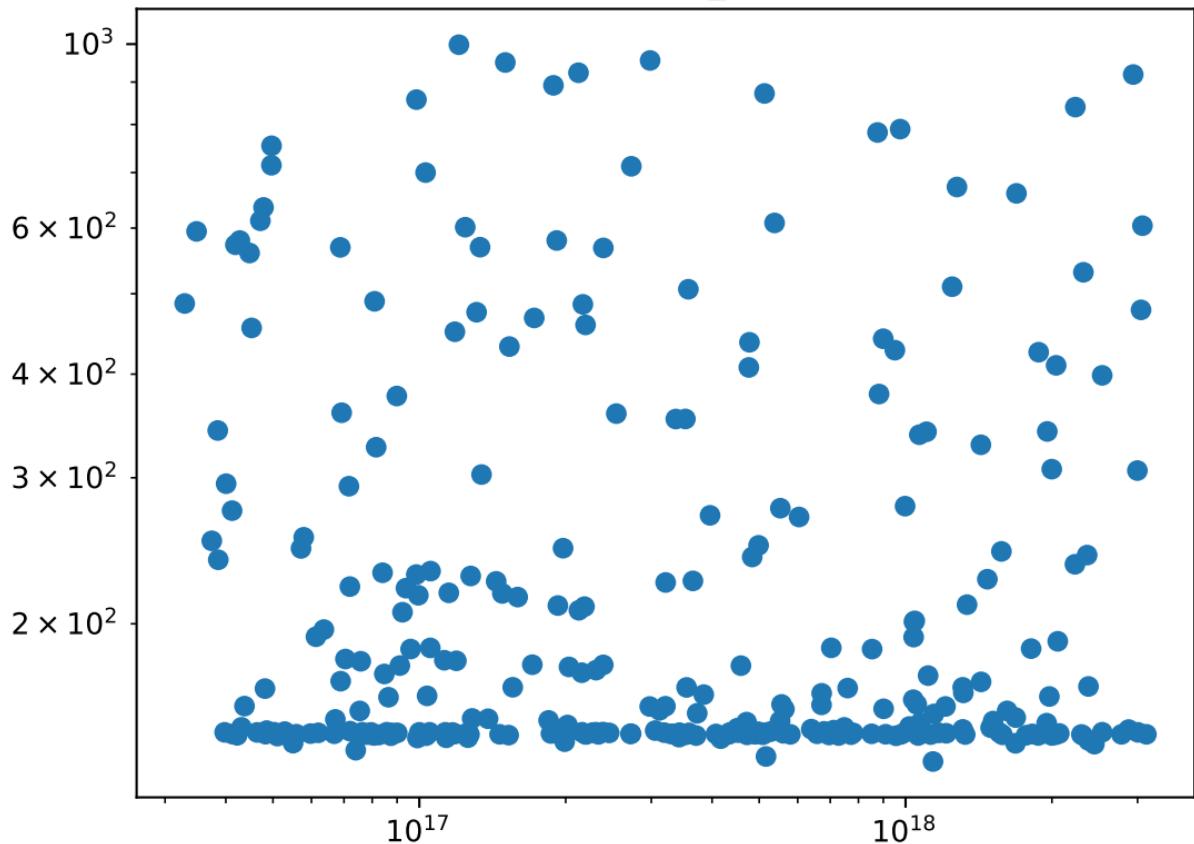
linear obj func low Surface_Abstraction/O;*OH/E0



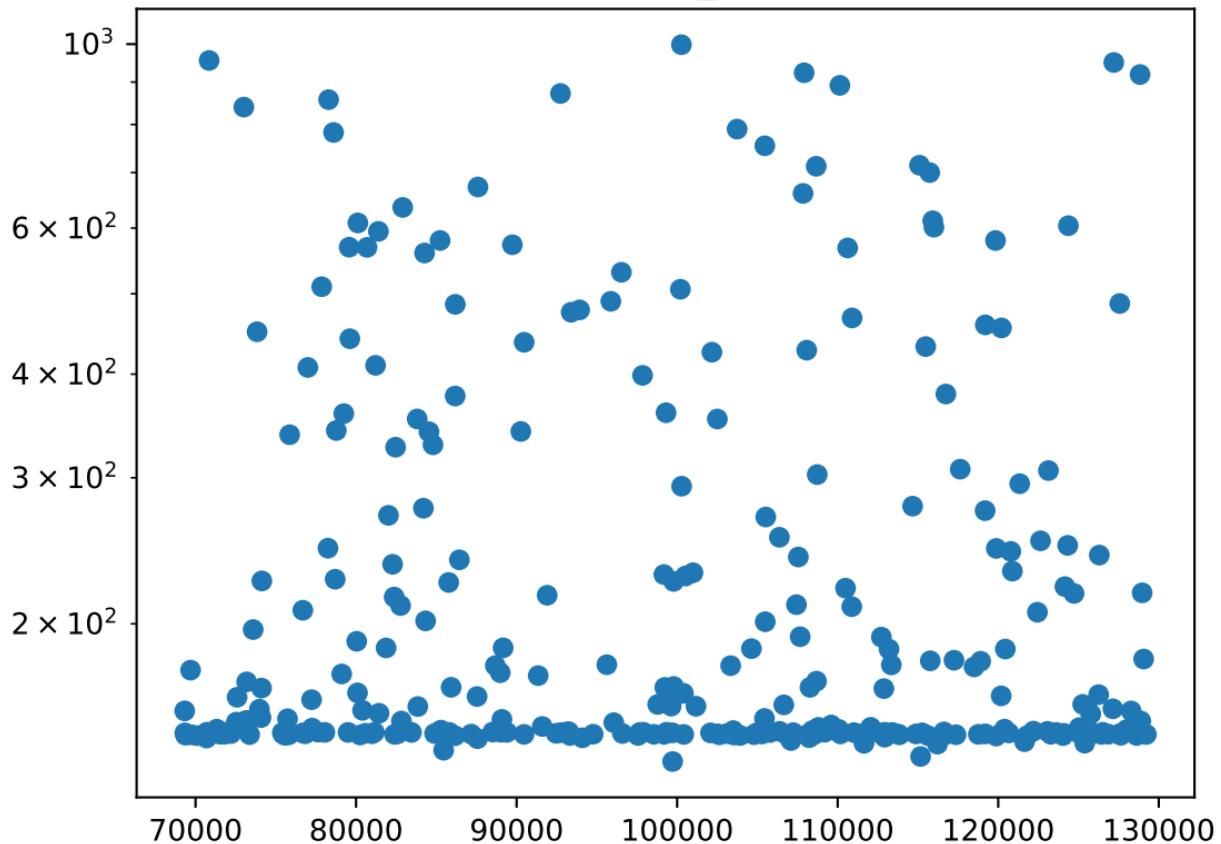
linear obj func low Surface_Abstraction/C;*C-H/alpha



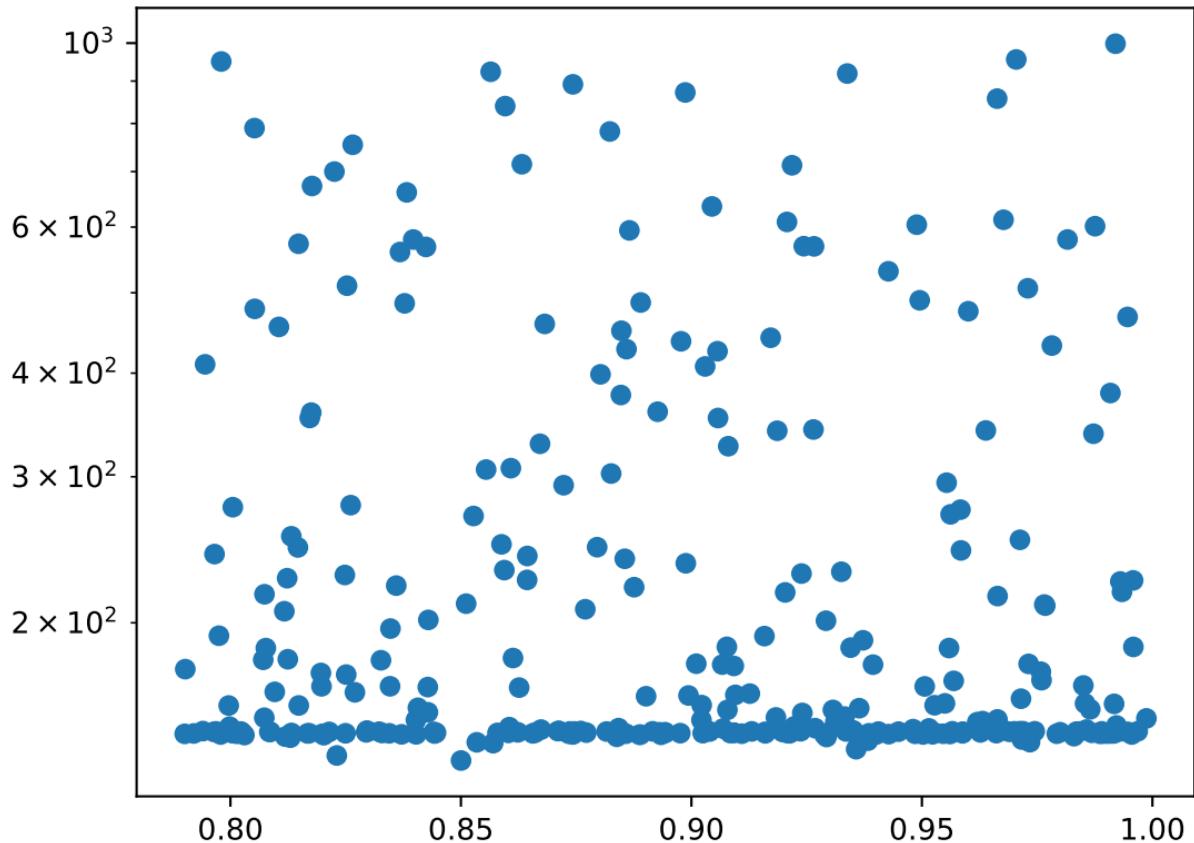
linear obj func low Surface_Abstraction/C;*C-H/A



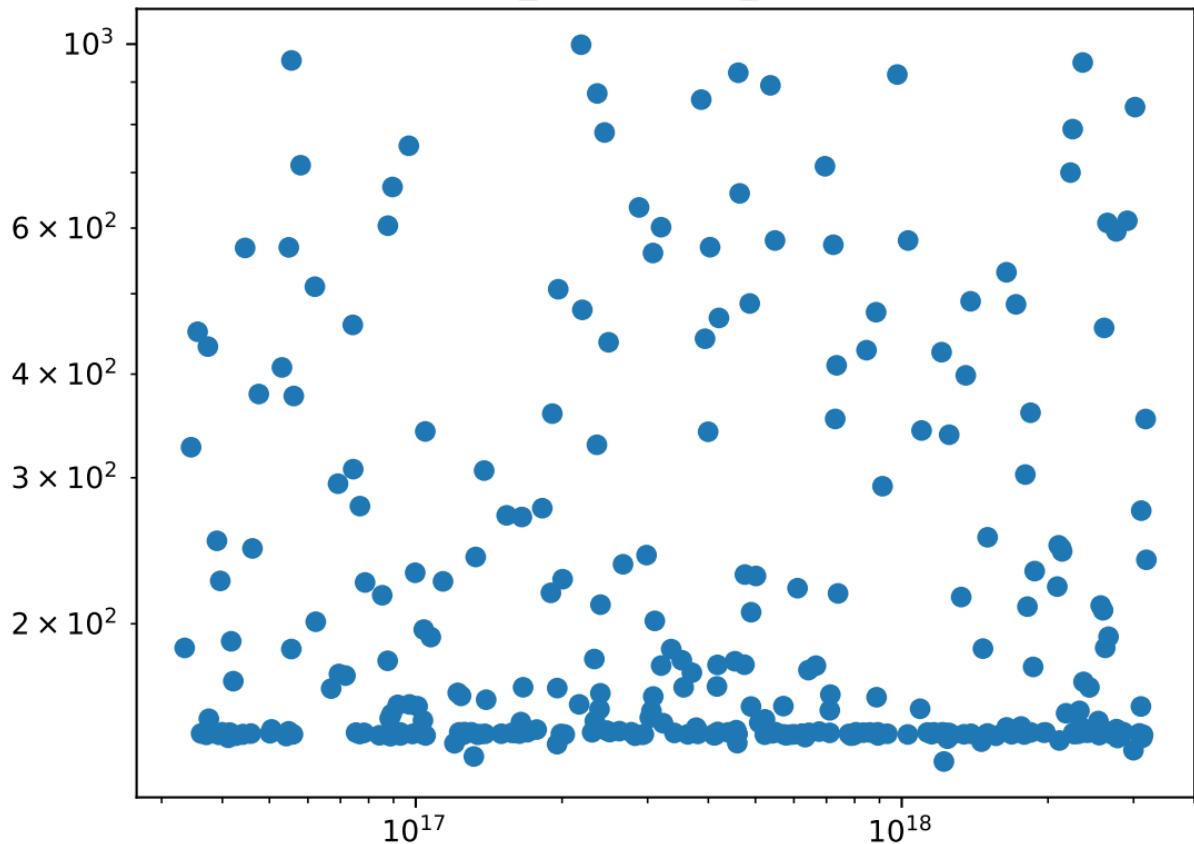
linear obj func low Surface_Abstraction/C;*C-H/E0



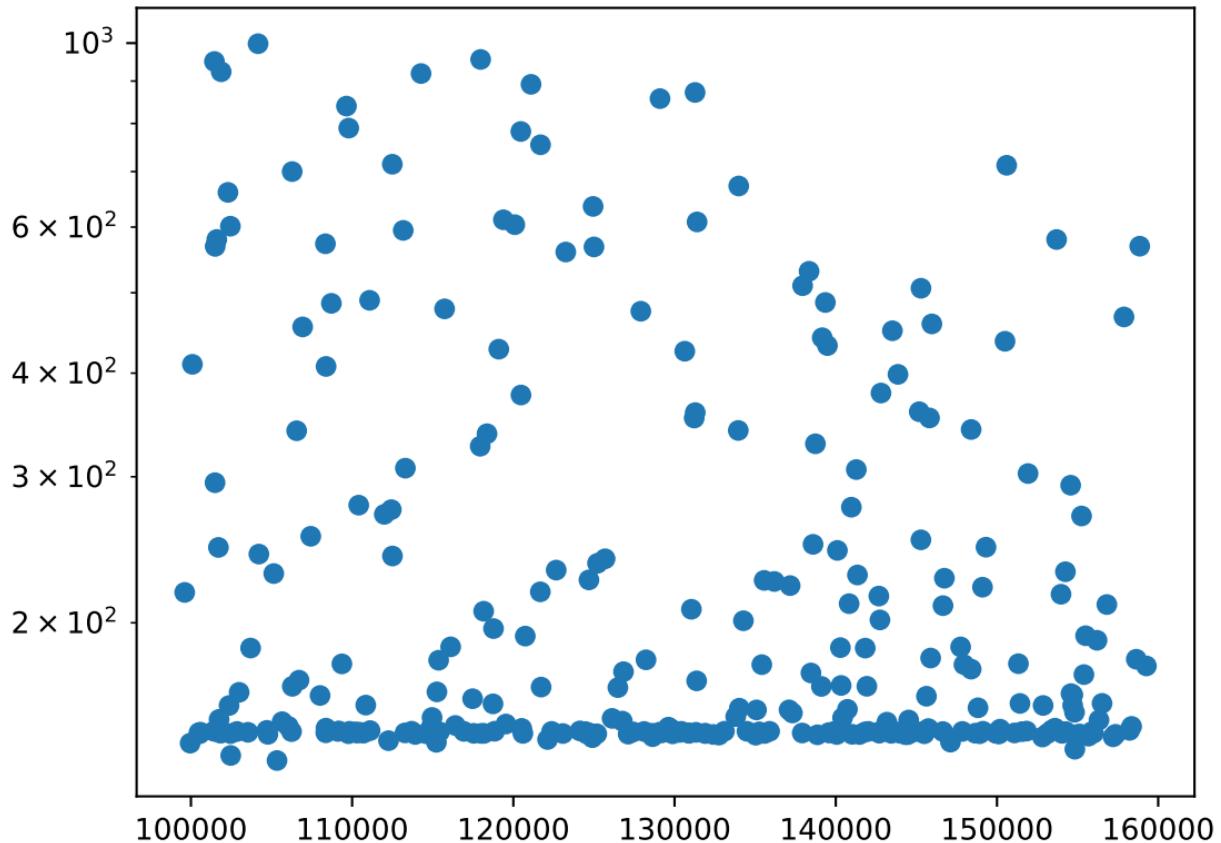
linear obj func low Surface_Abstraction_Beta/Combined;Adsorbate1/alpha



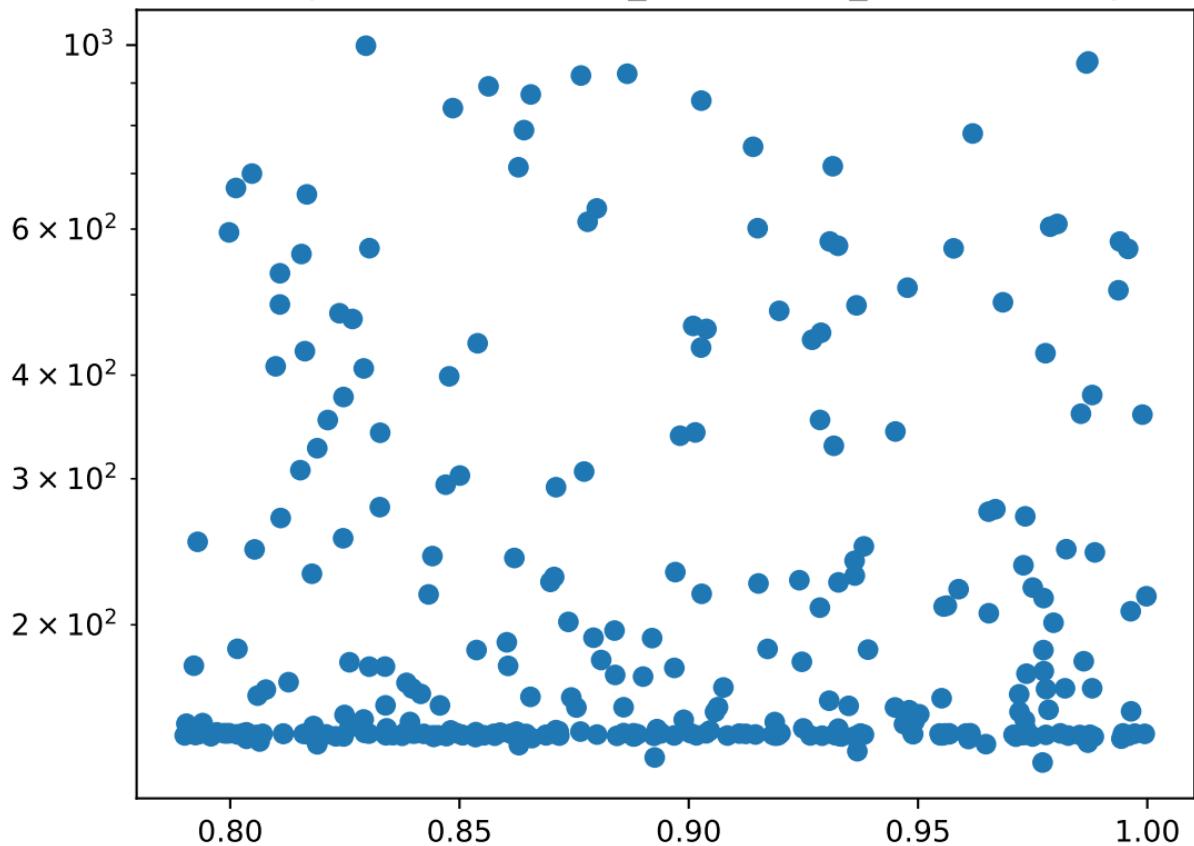
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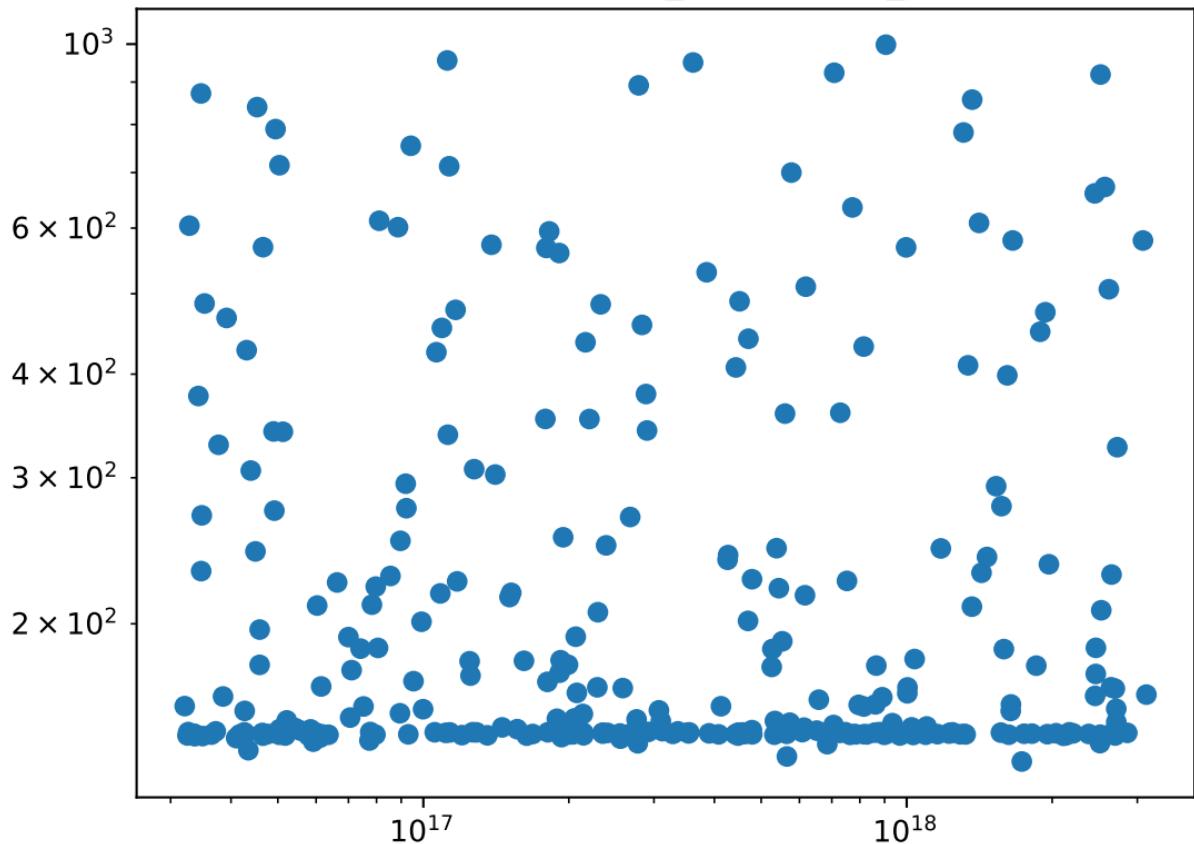
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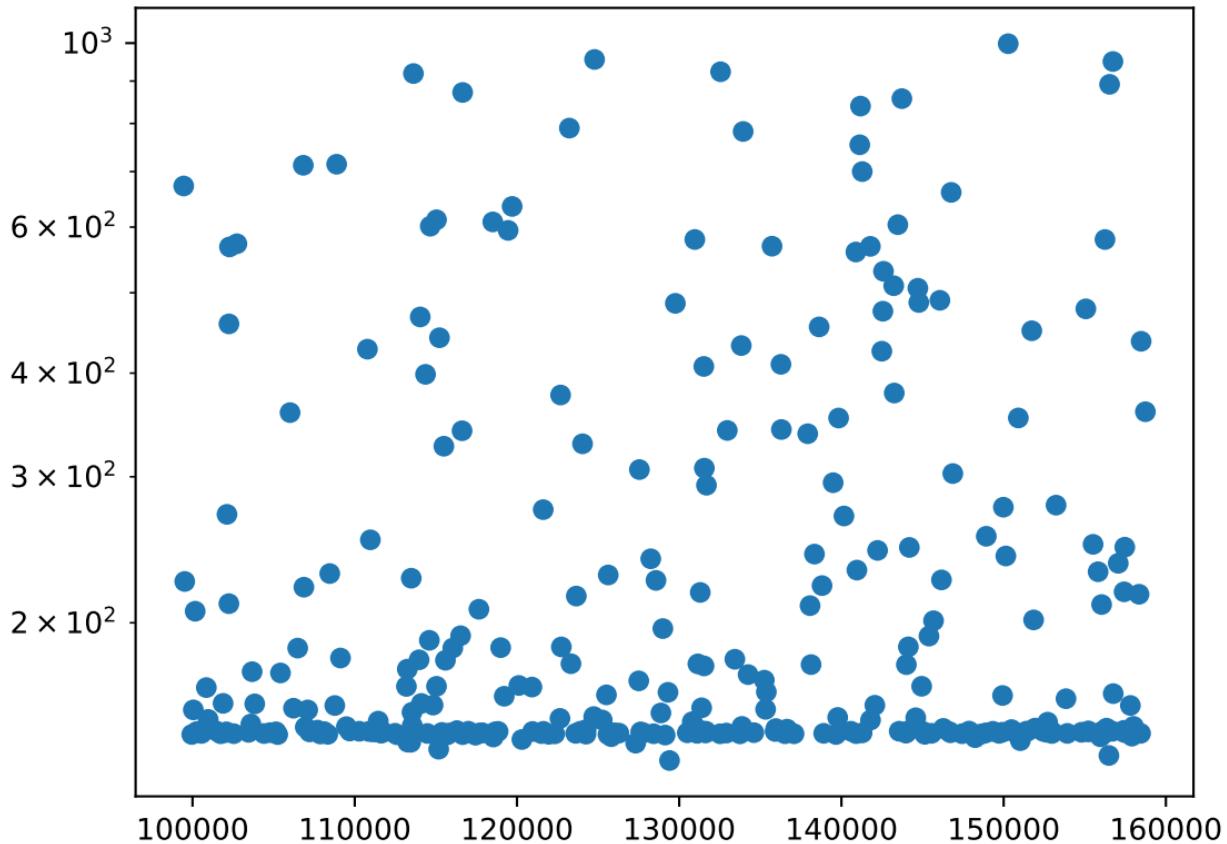
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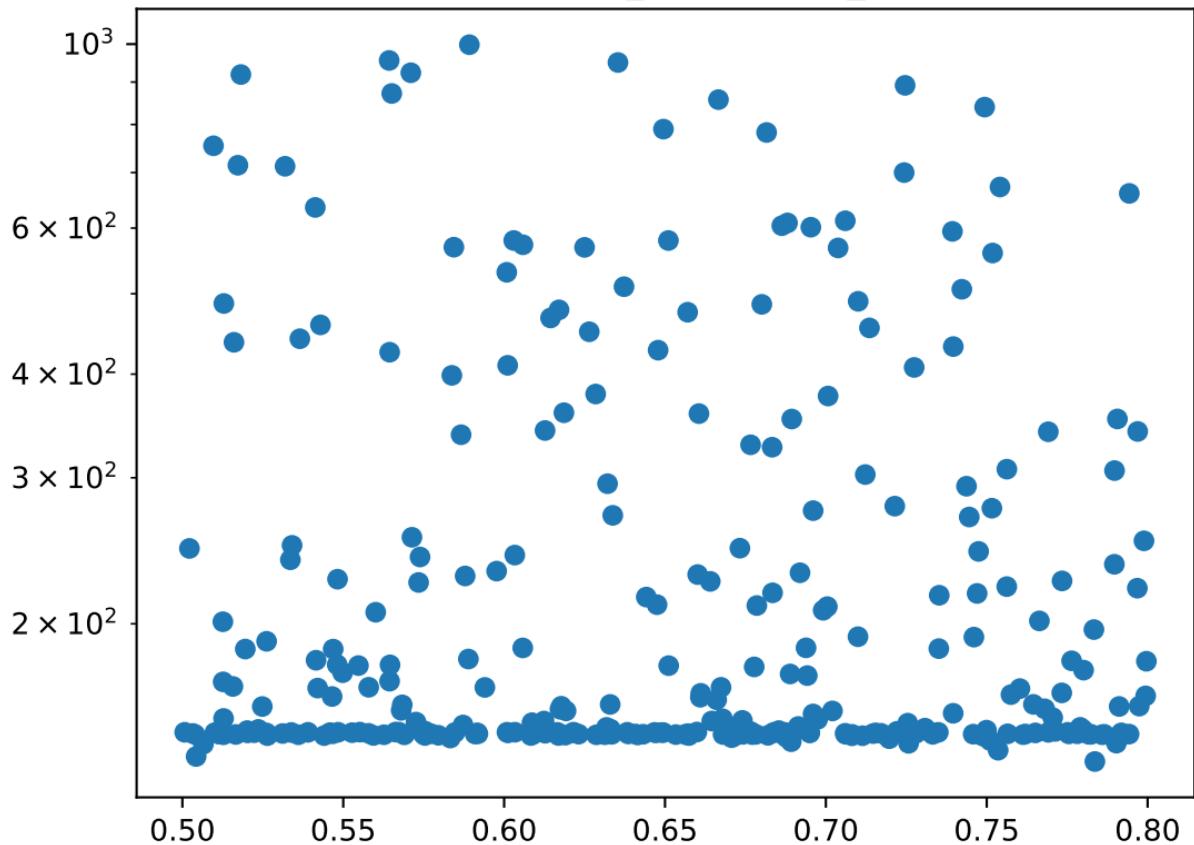
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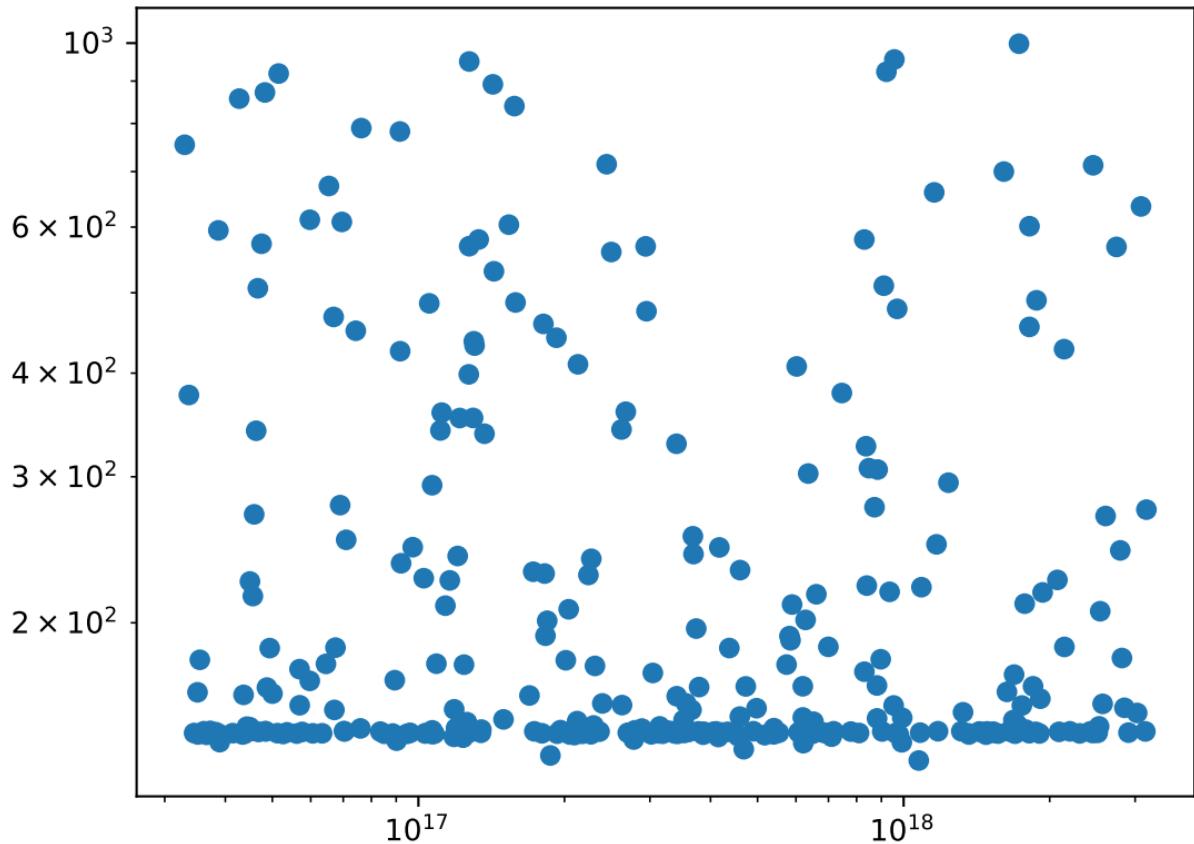
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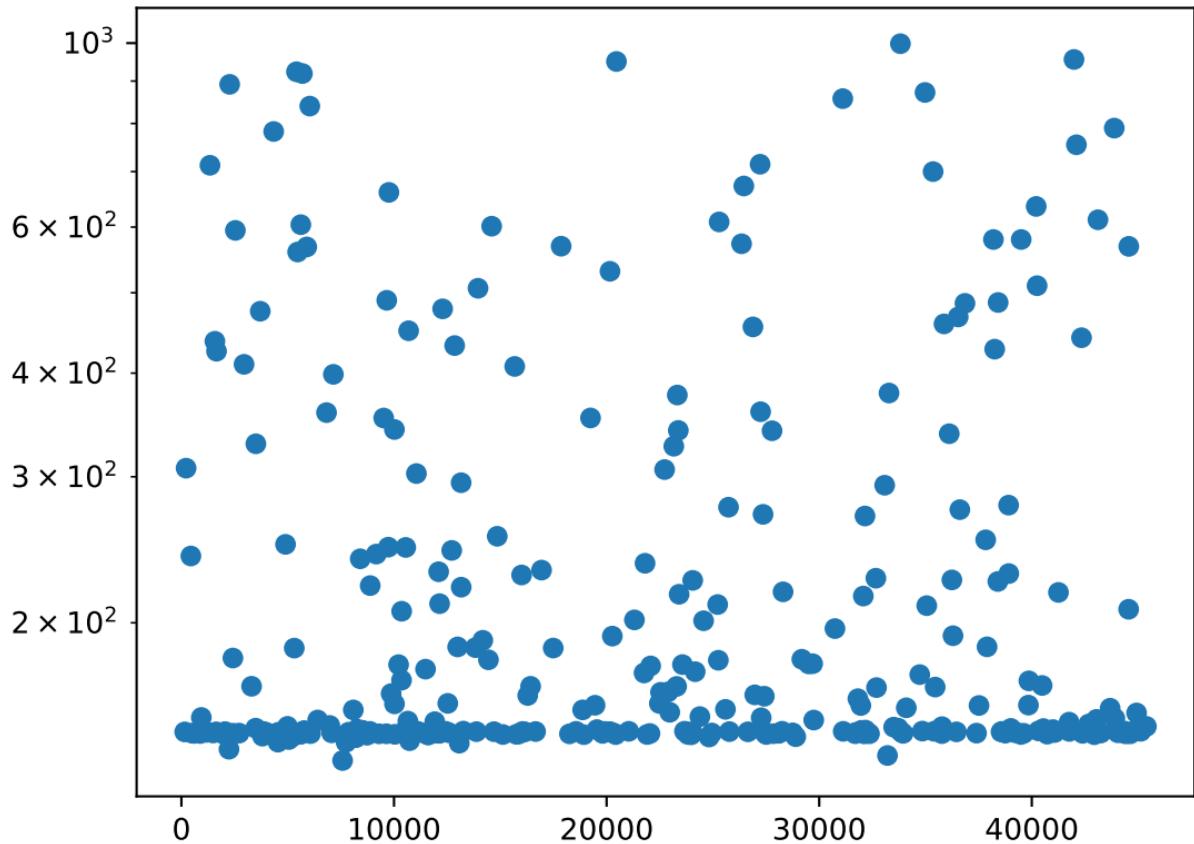
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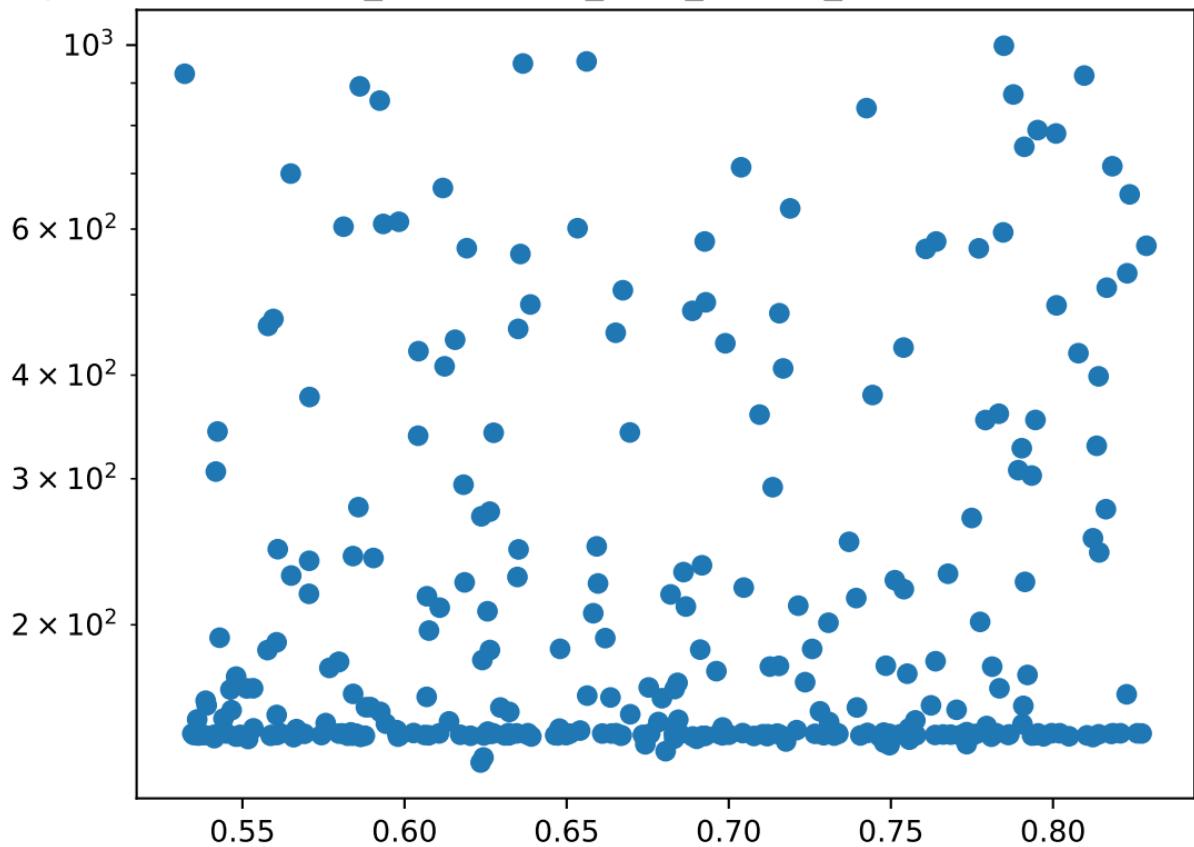
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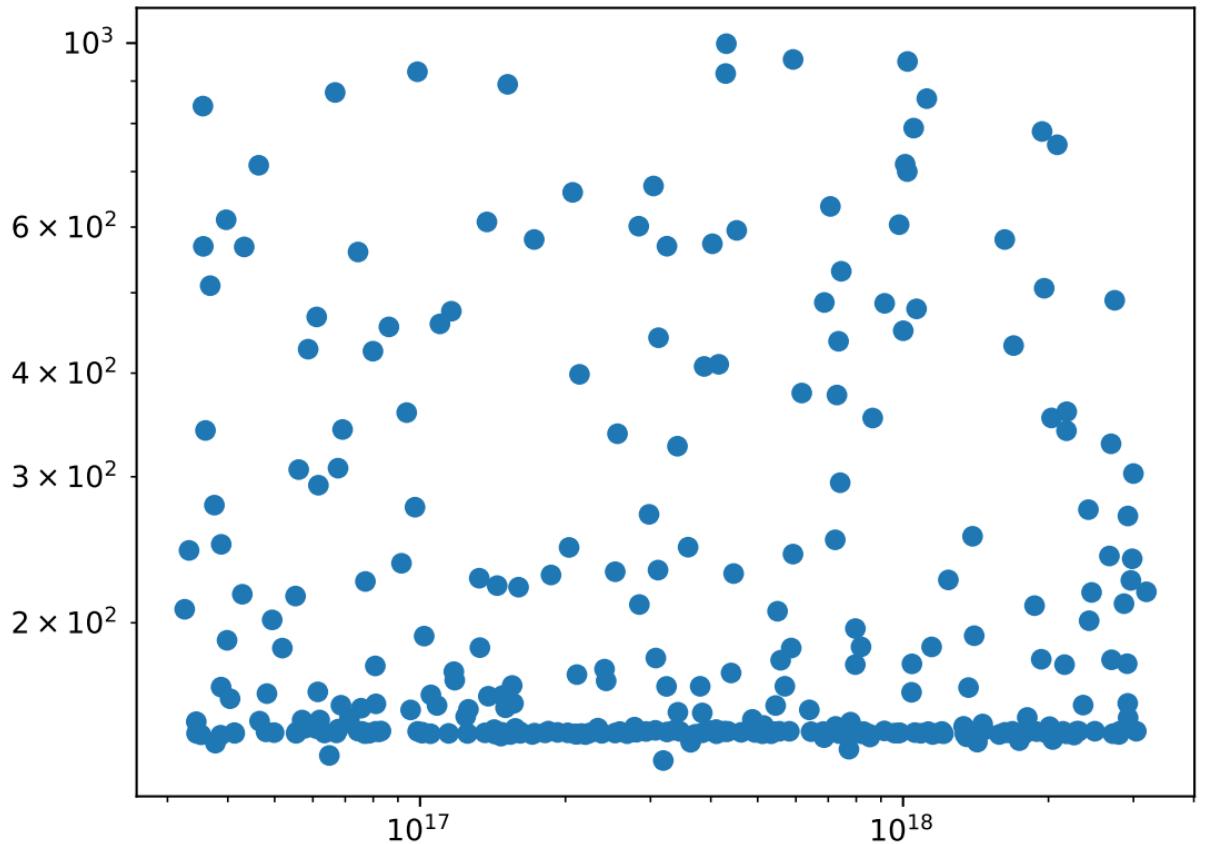
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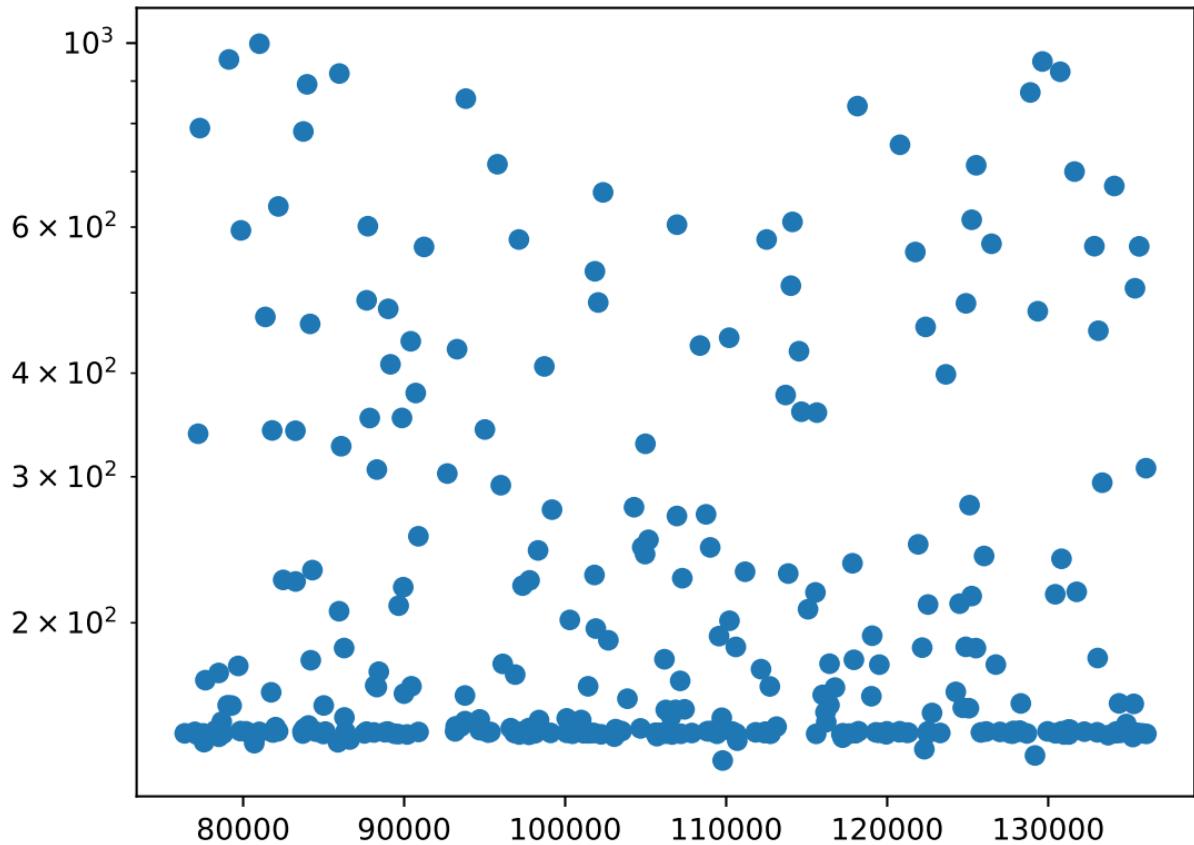
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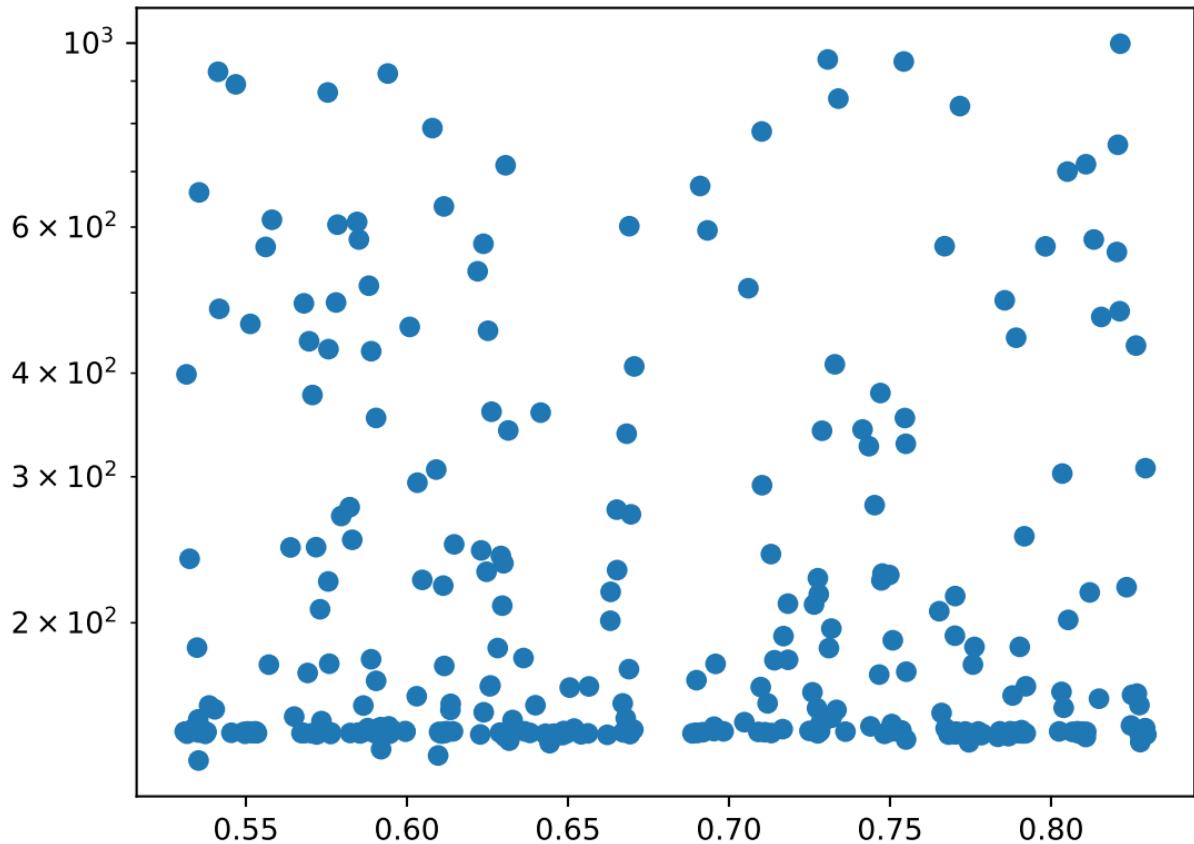
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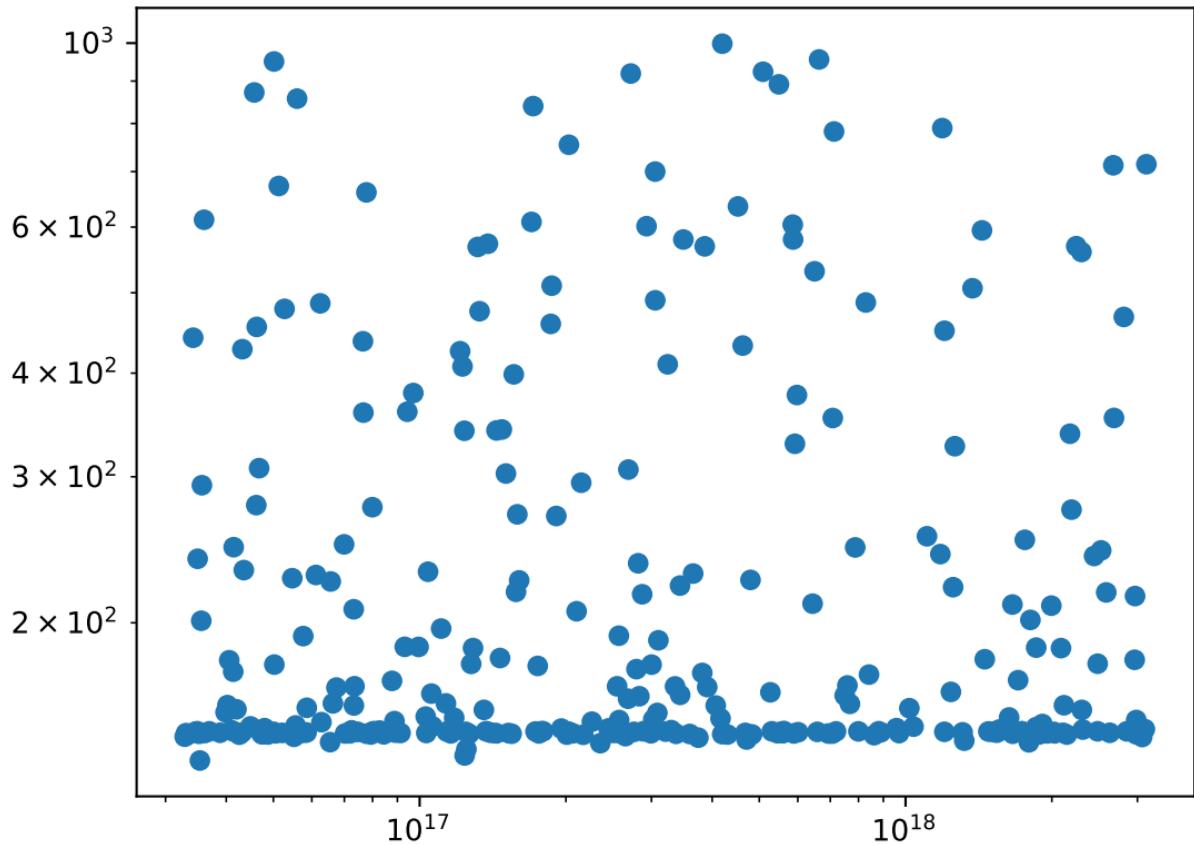
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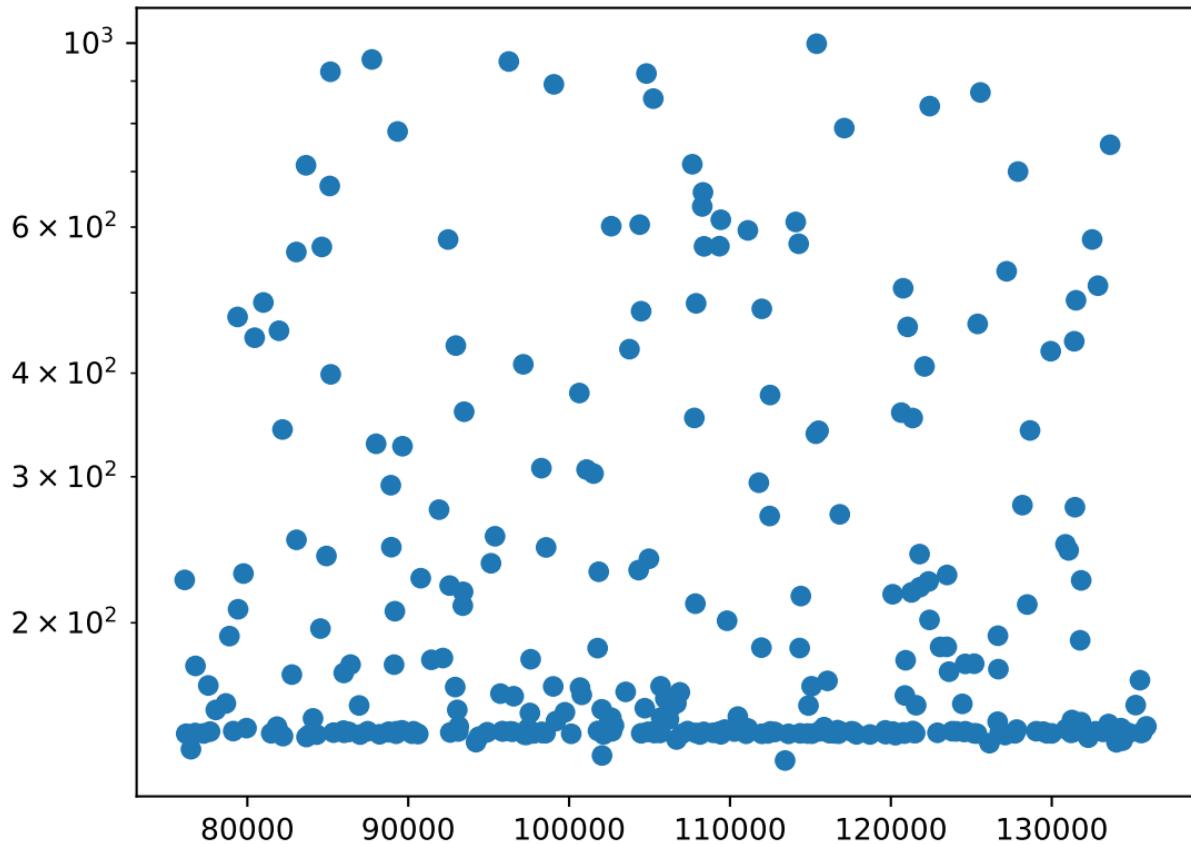
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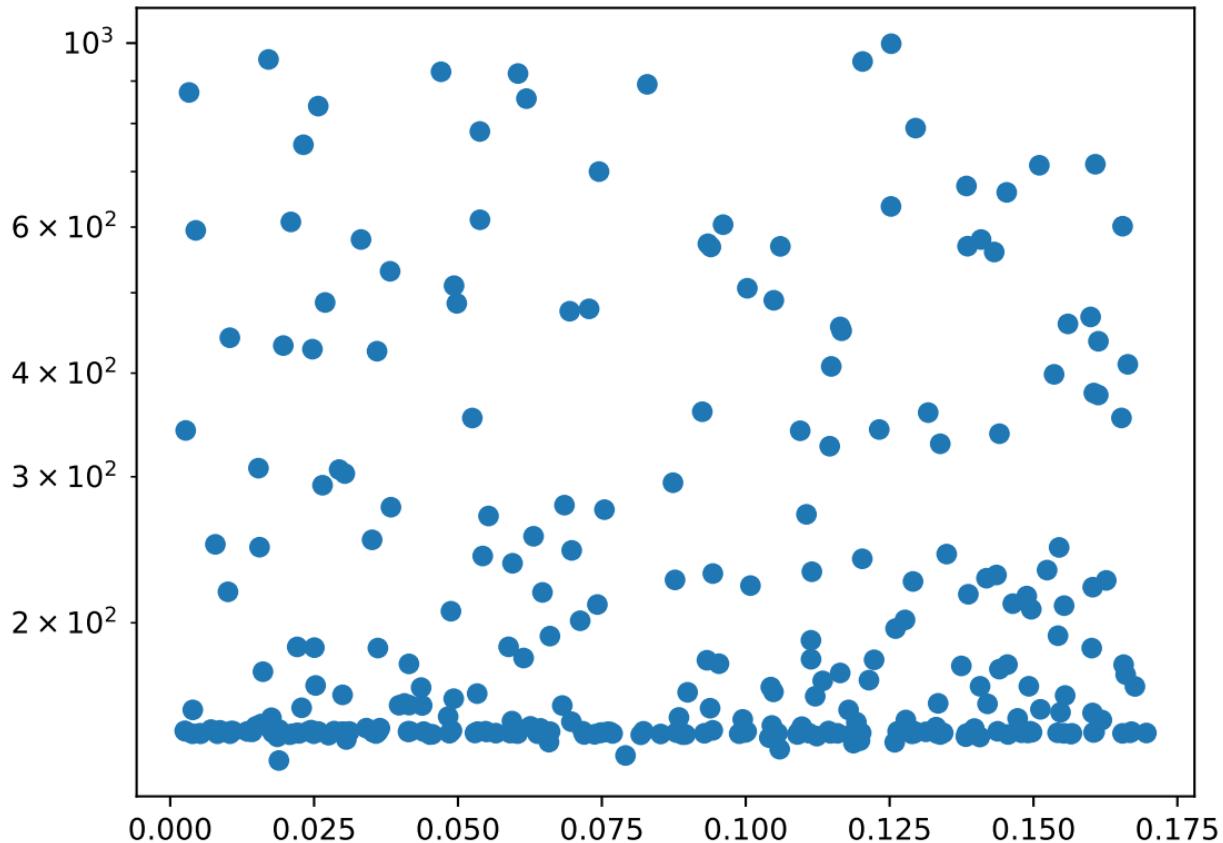
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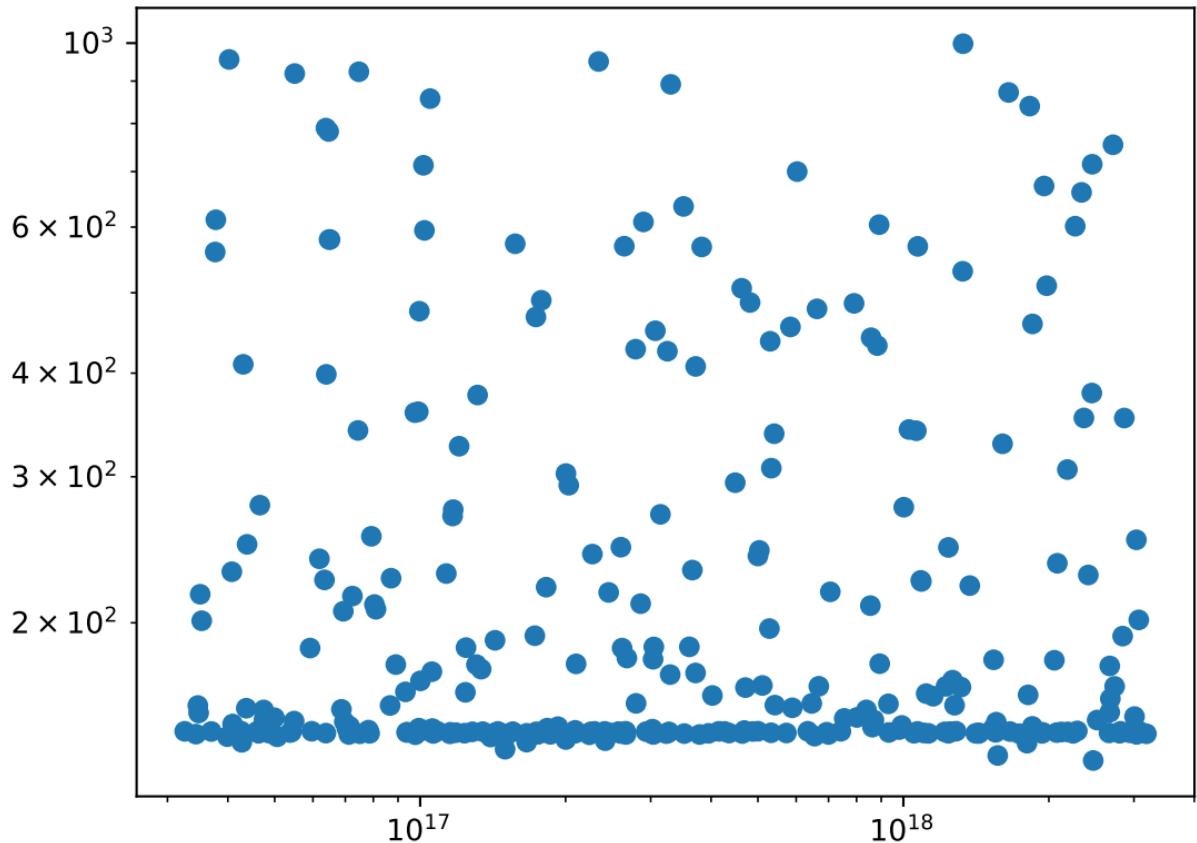
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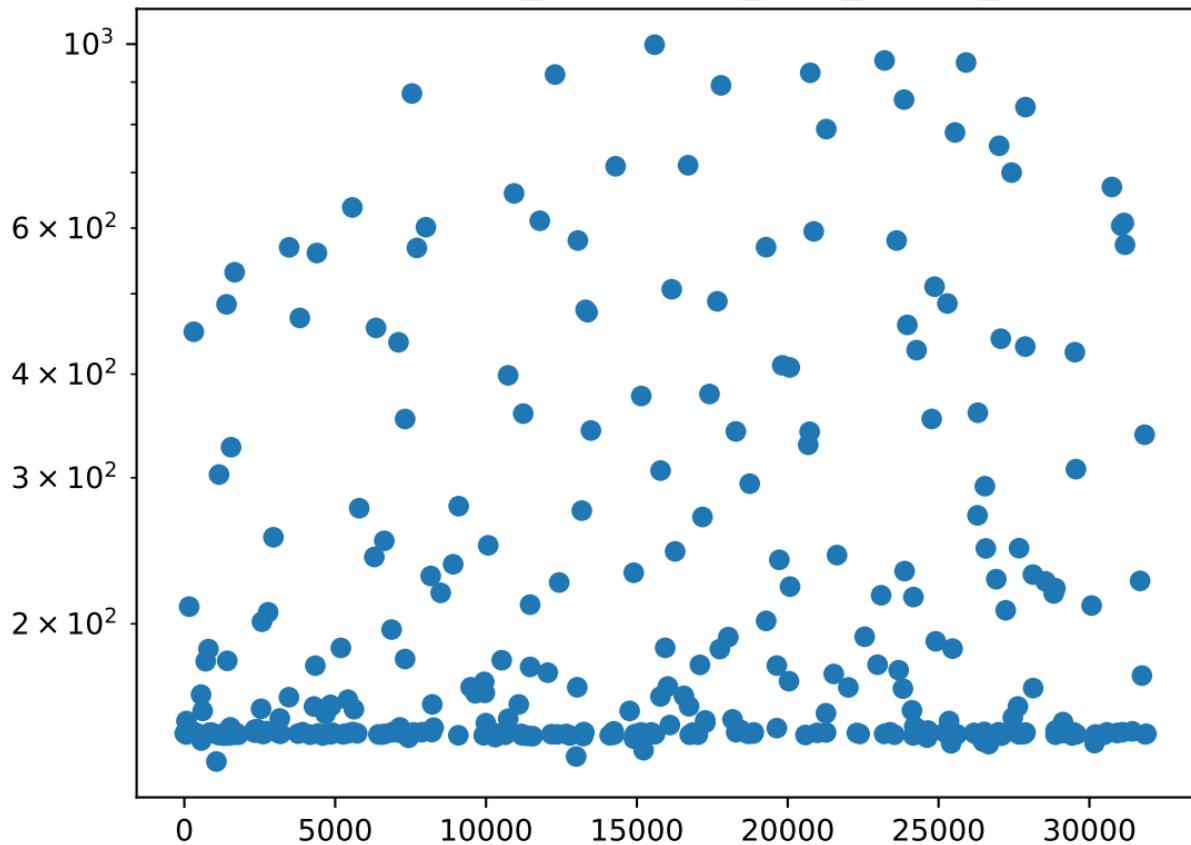
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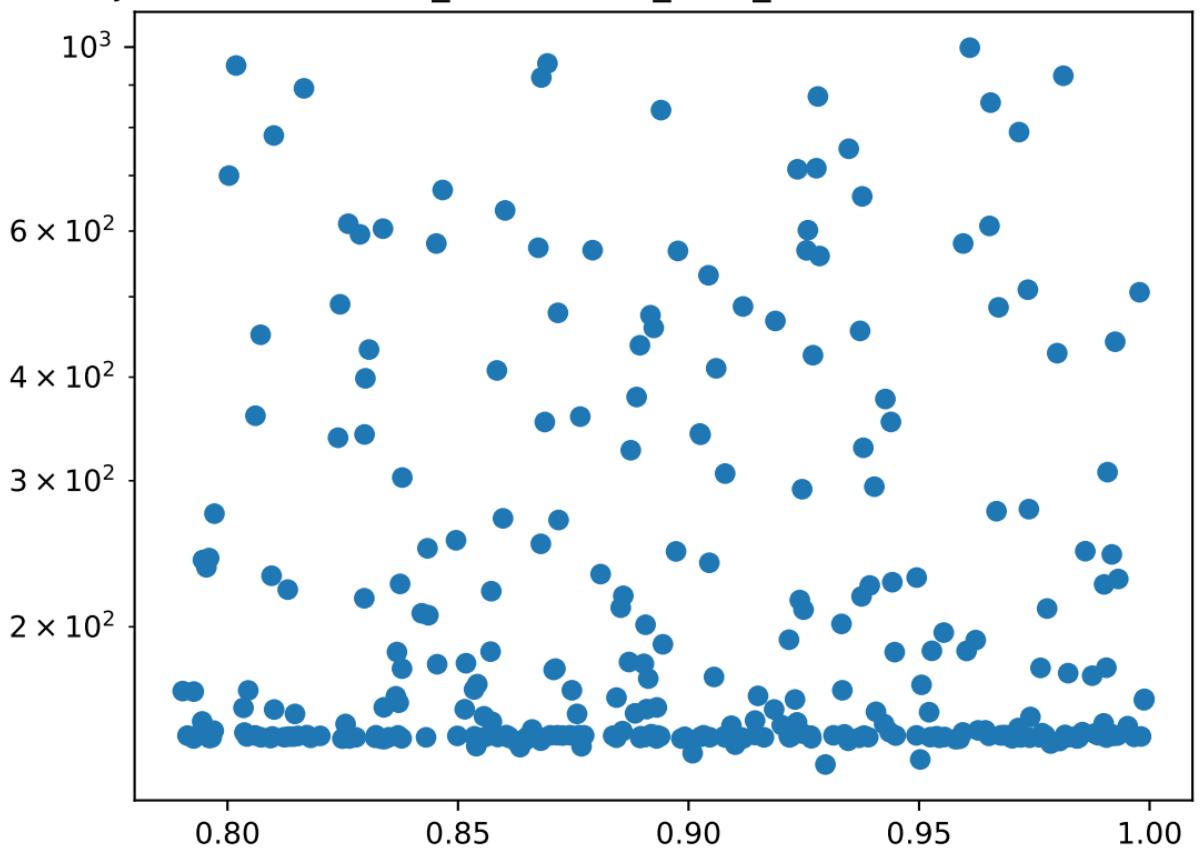
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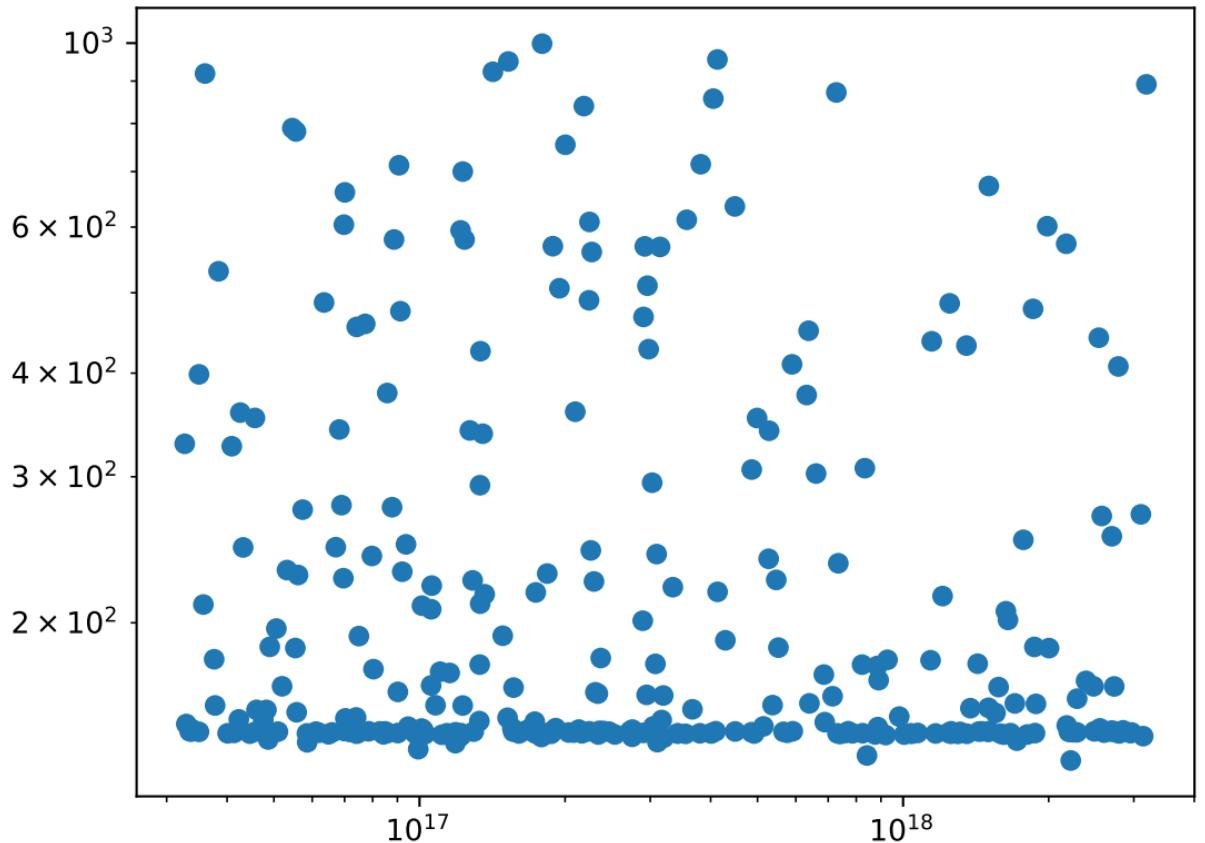
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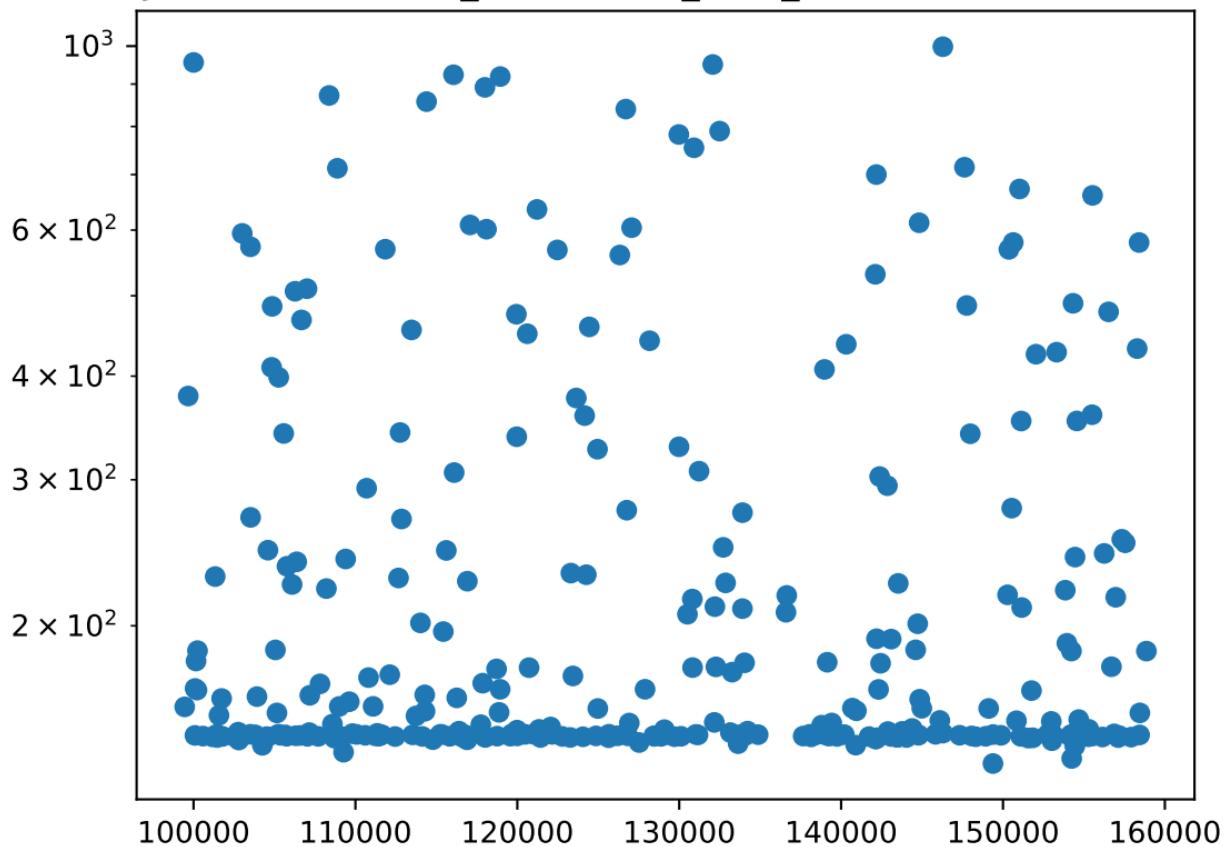
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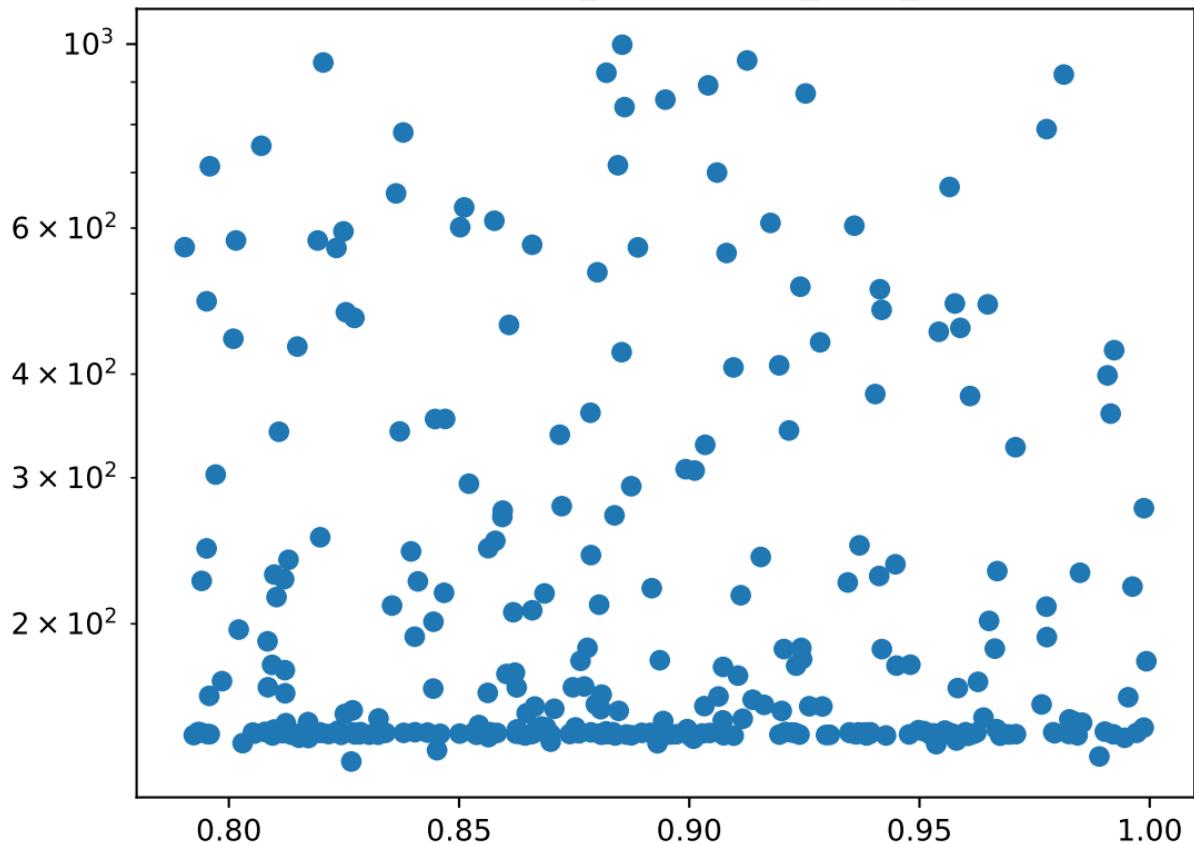
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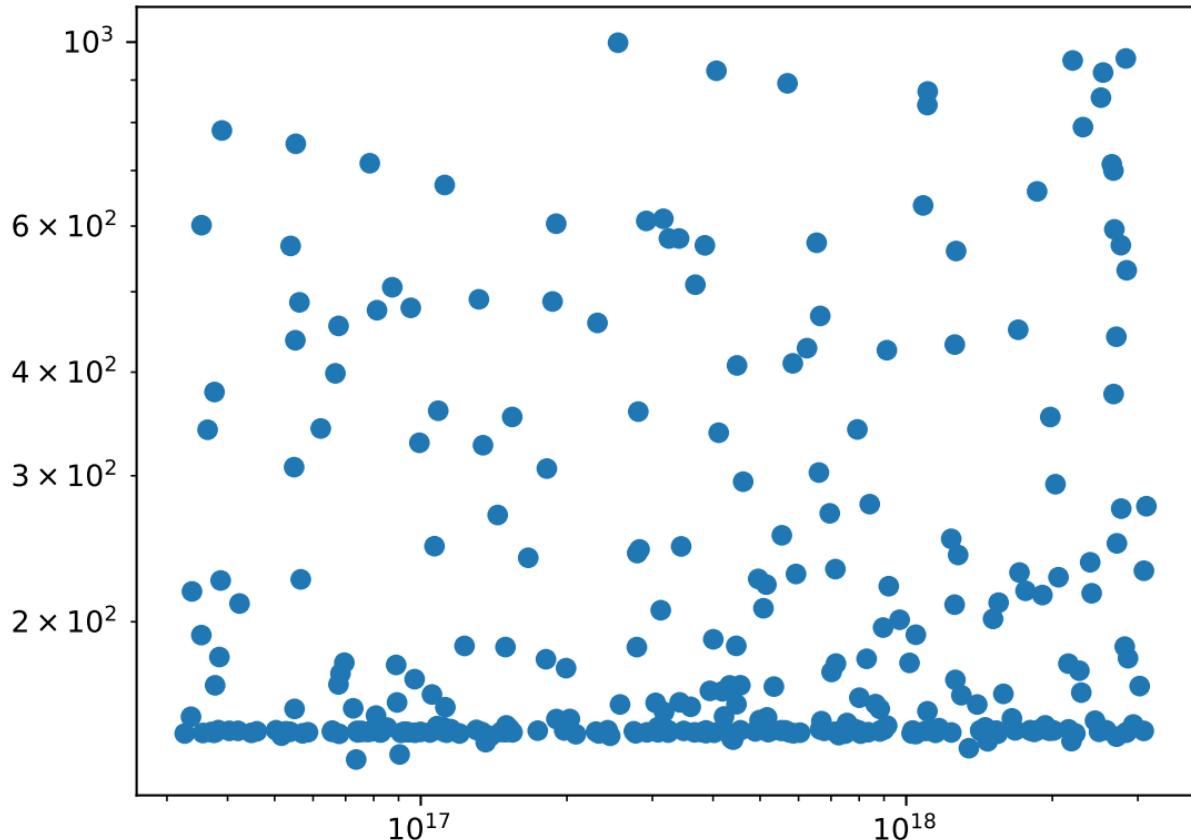
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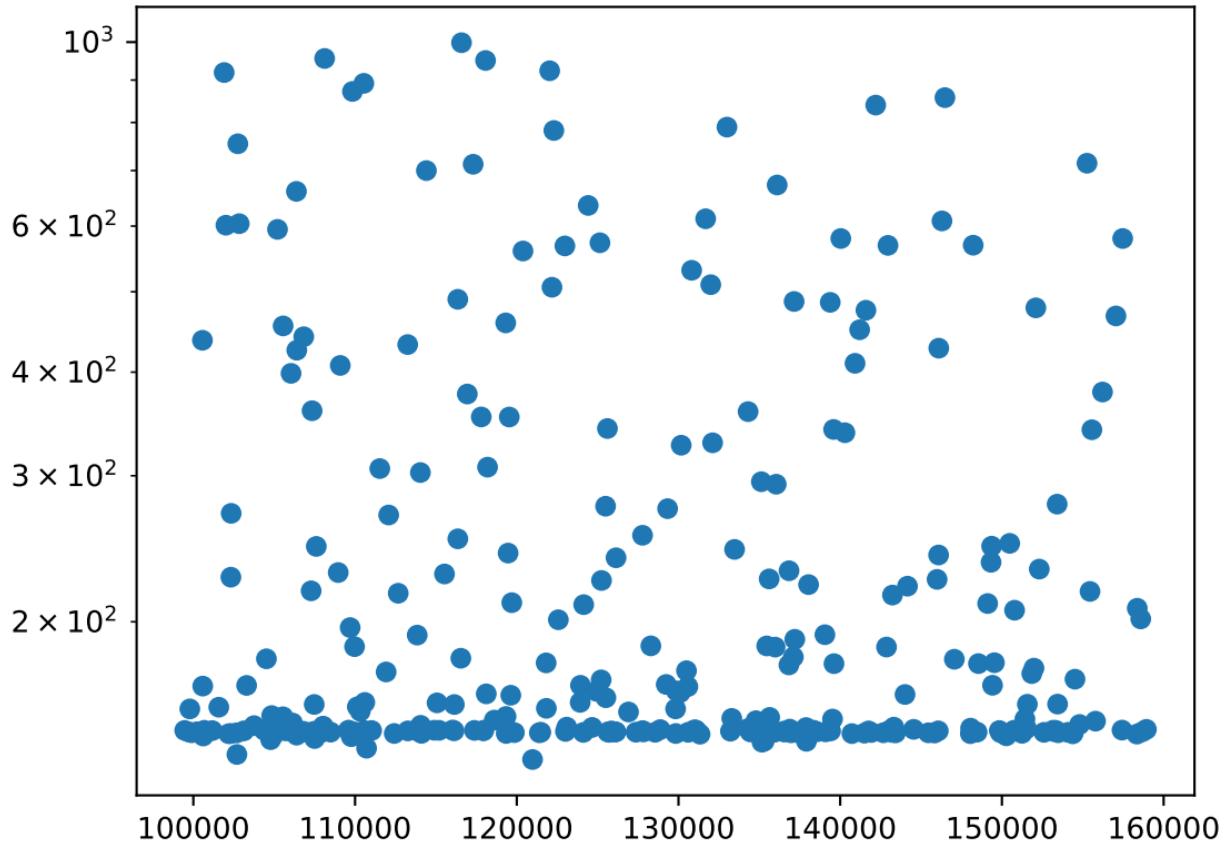
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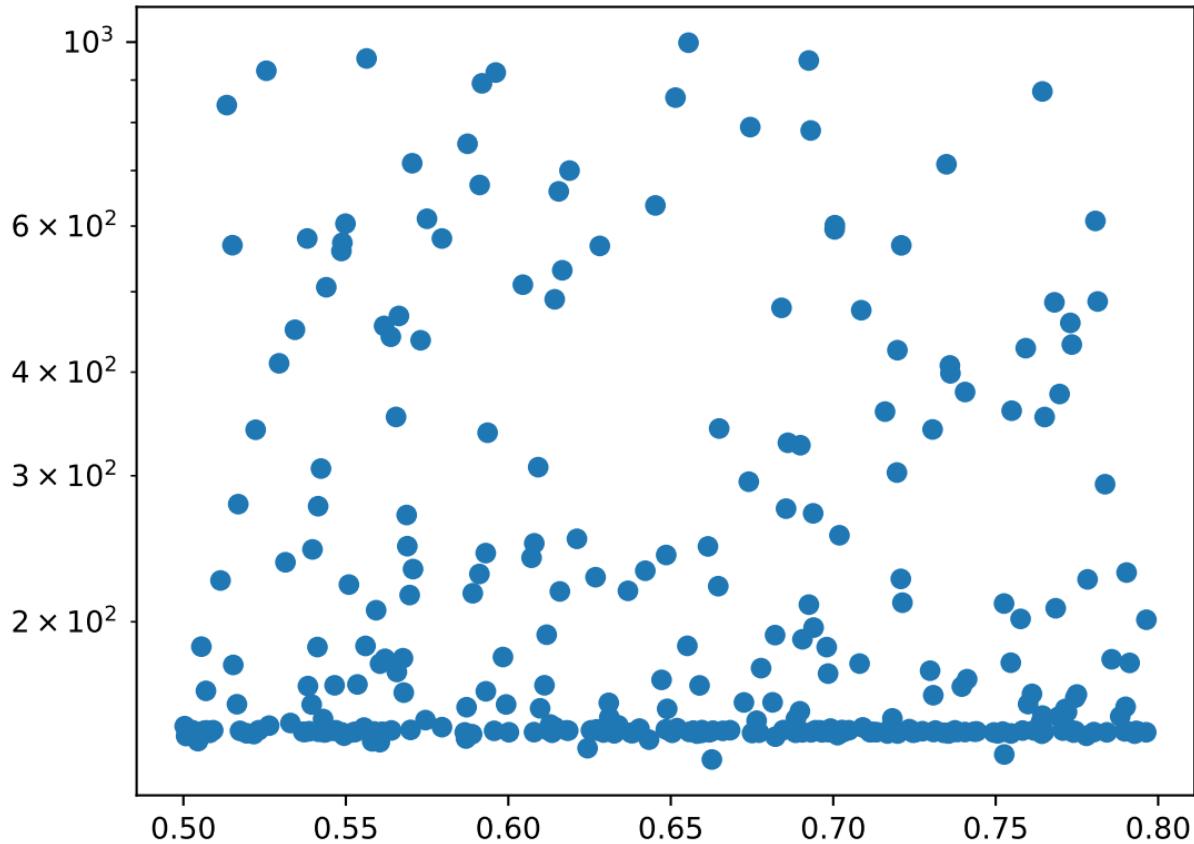
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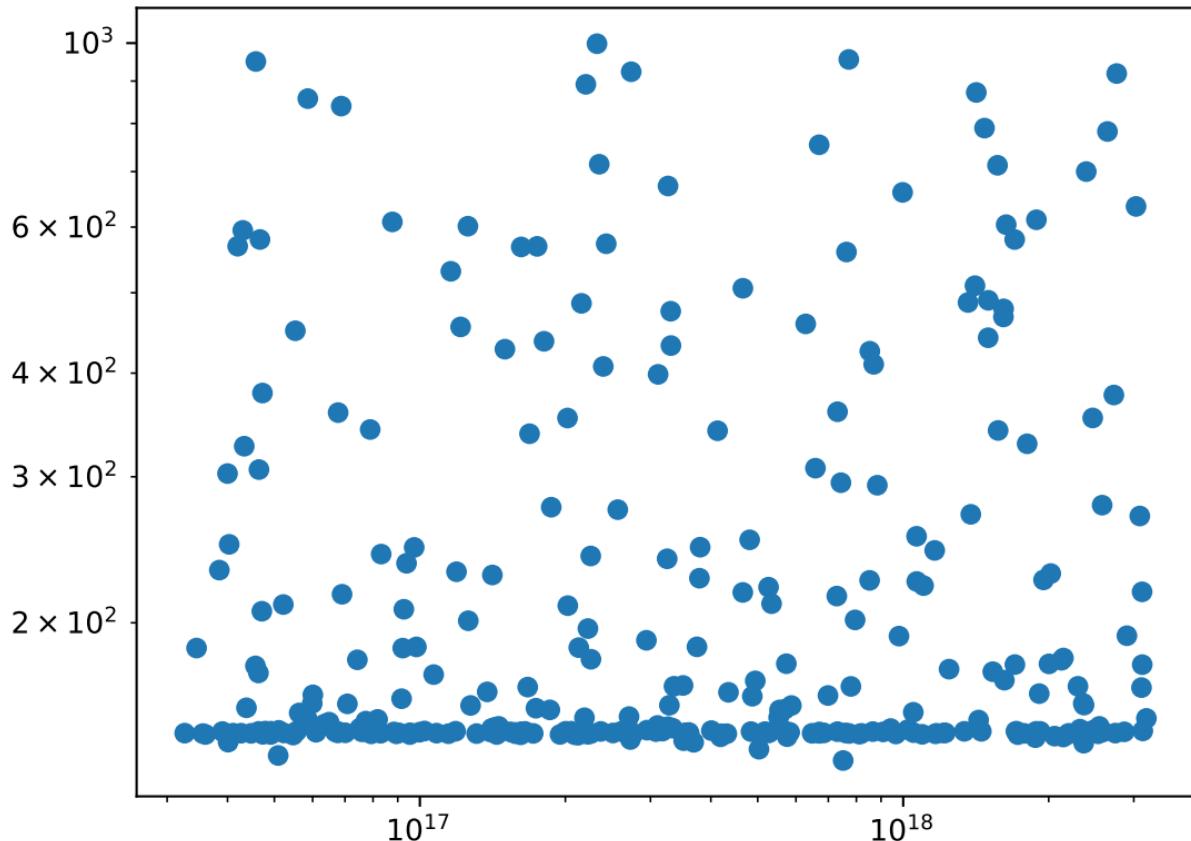
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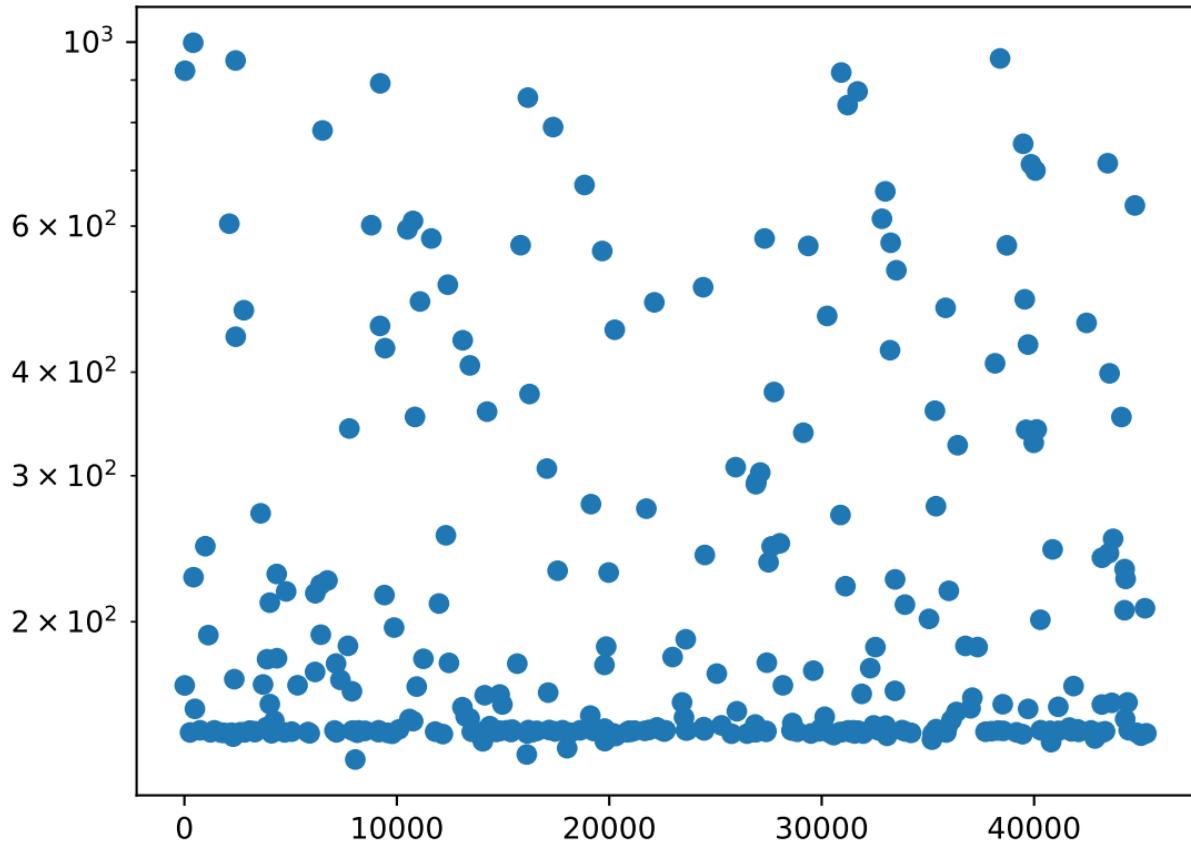
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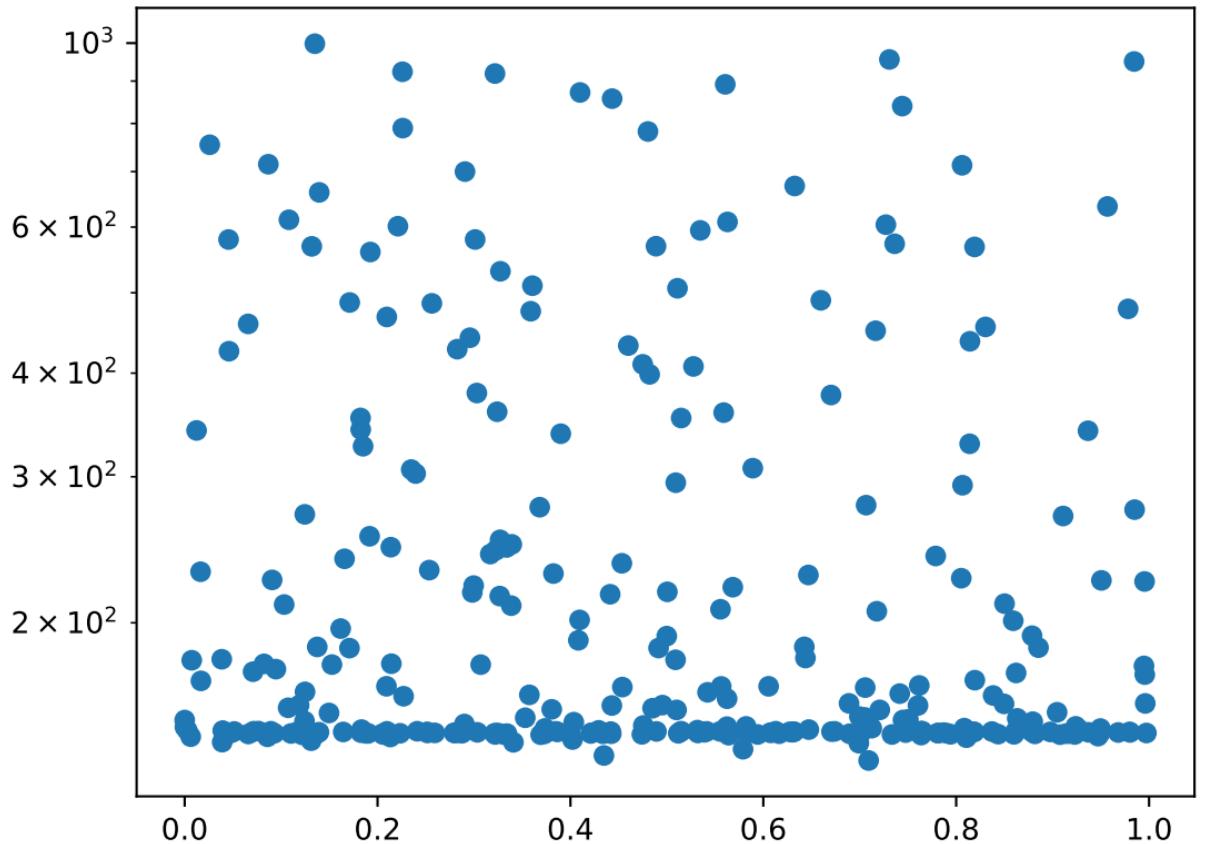
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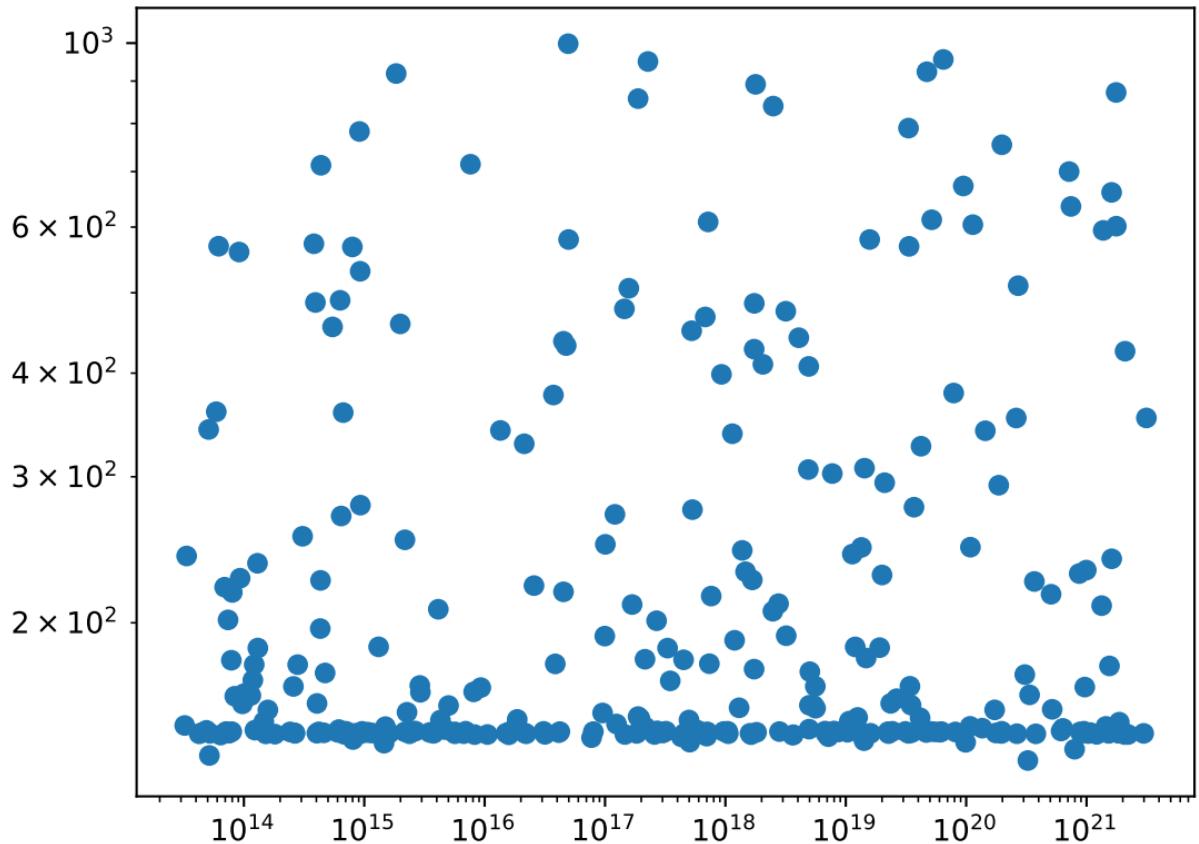
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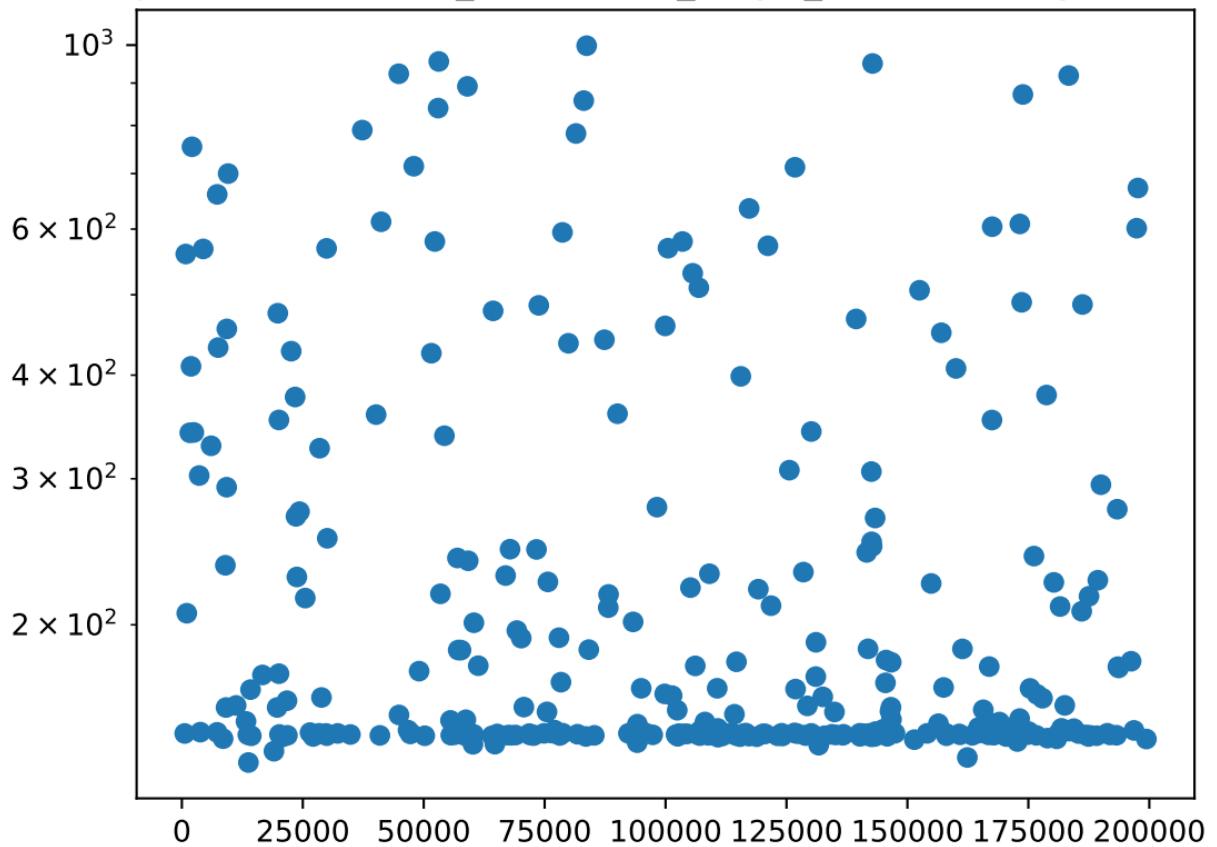
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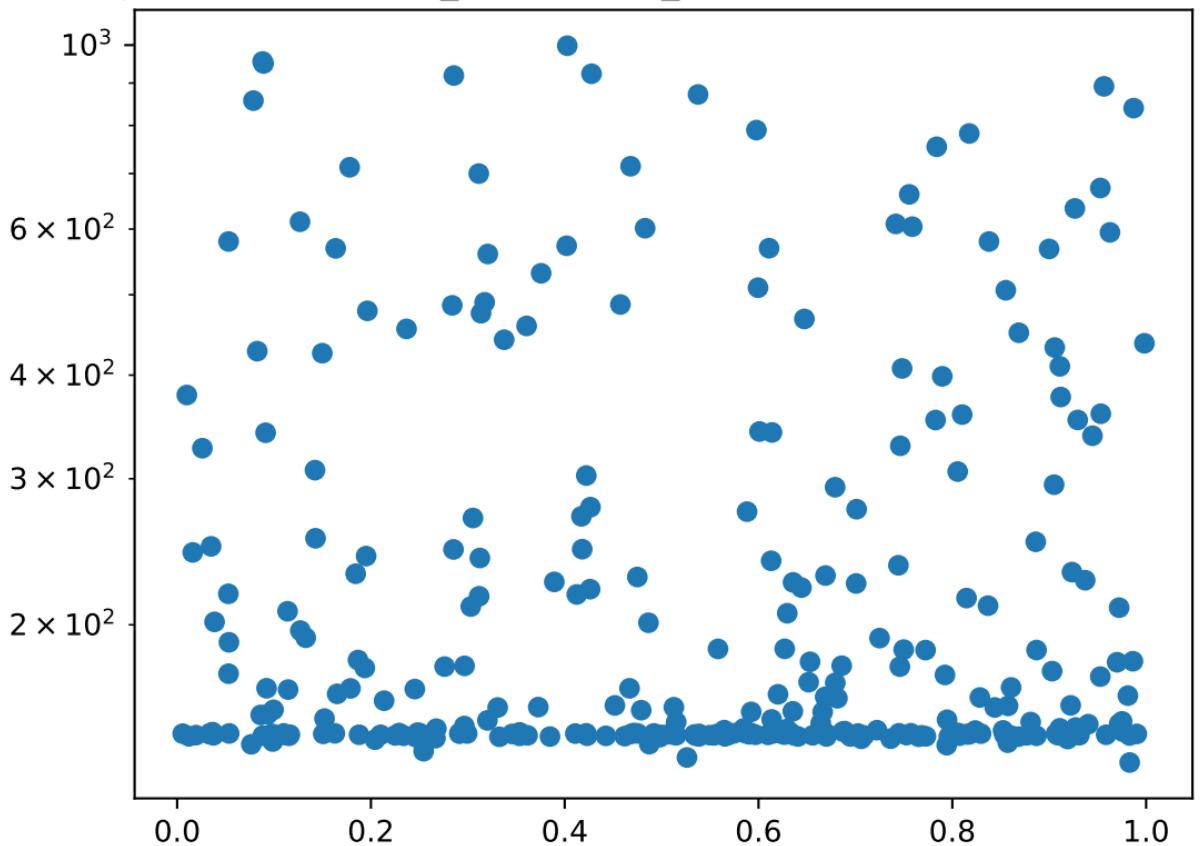
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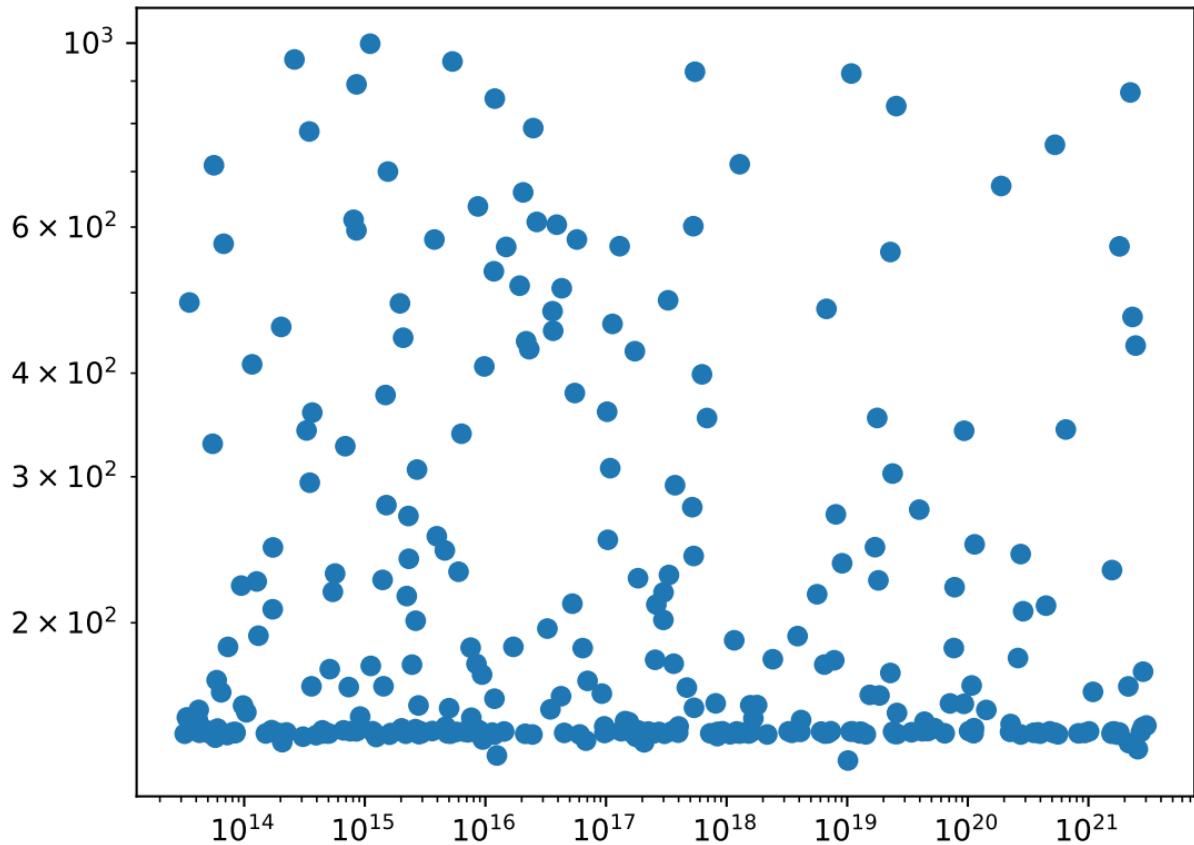
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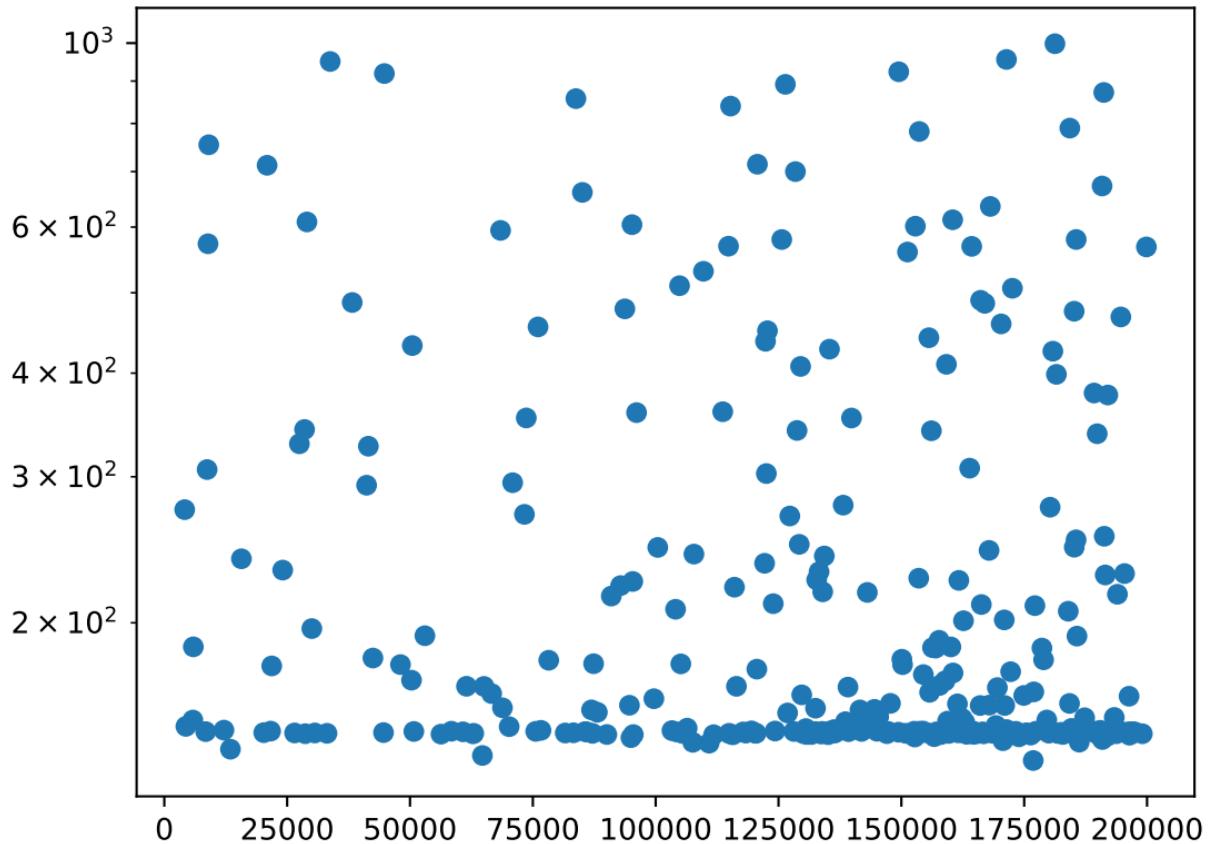
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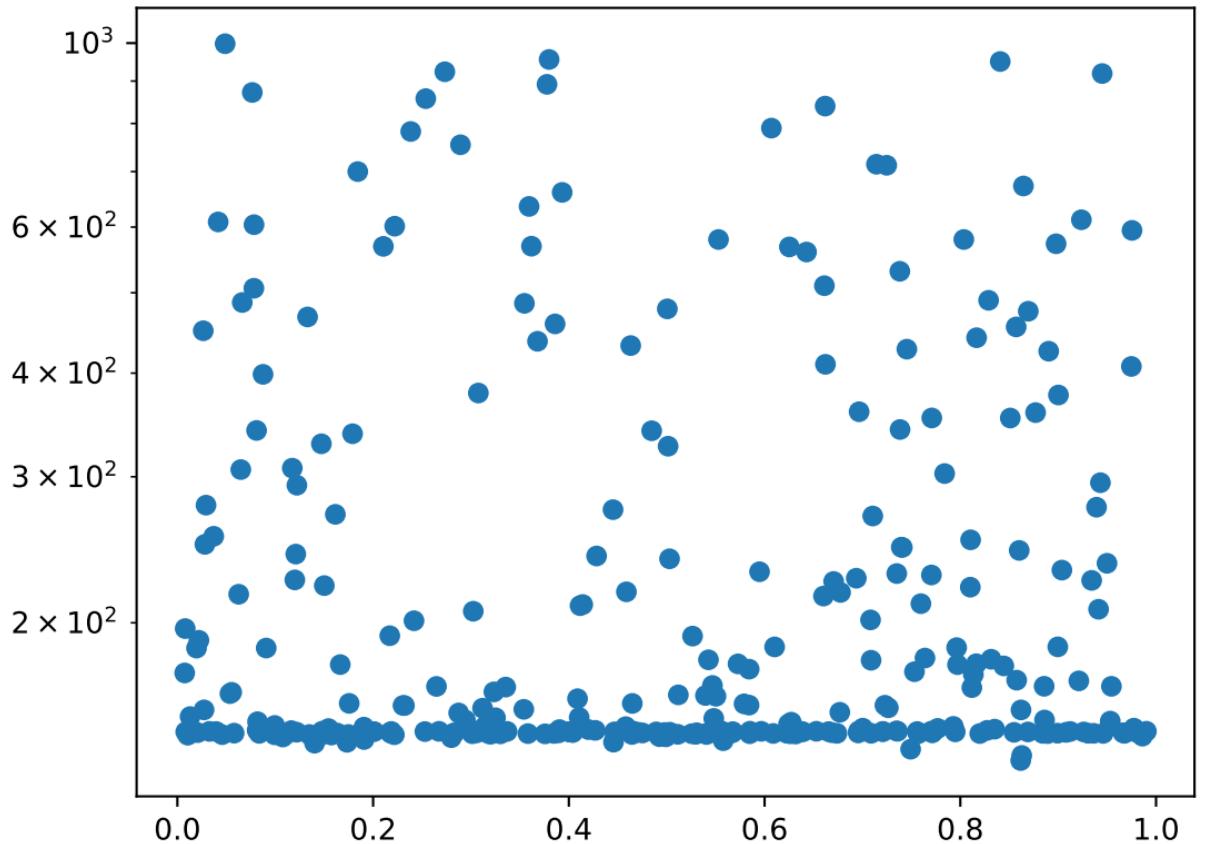
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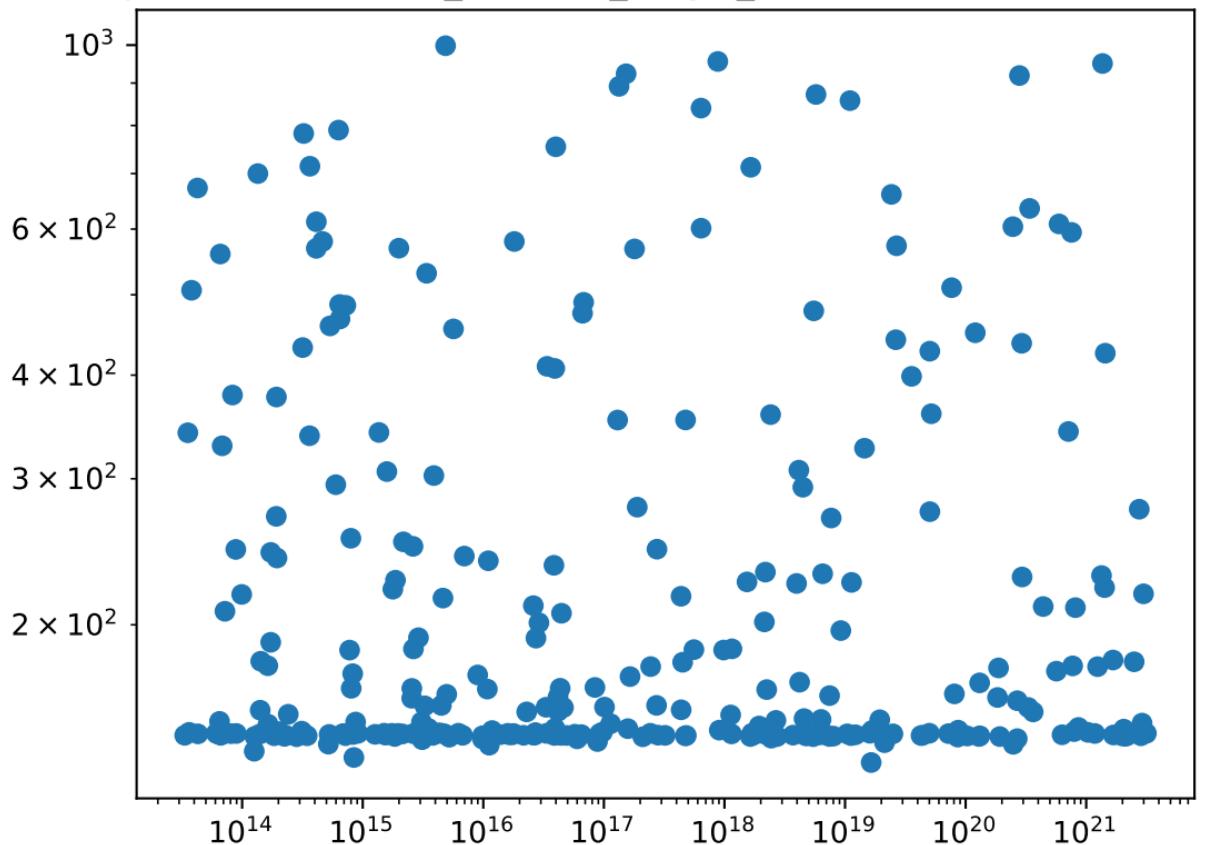
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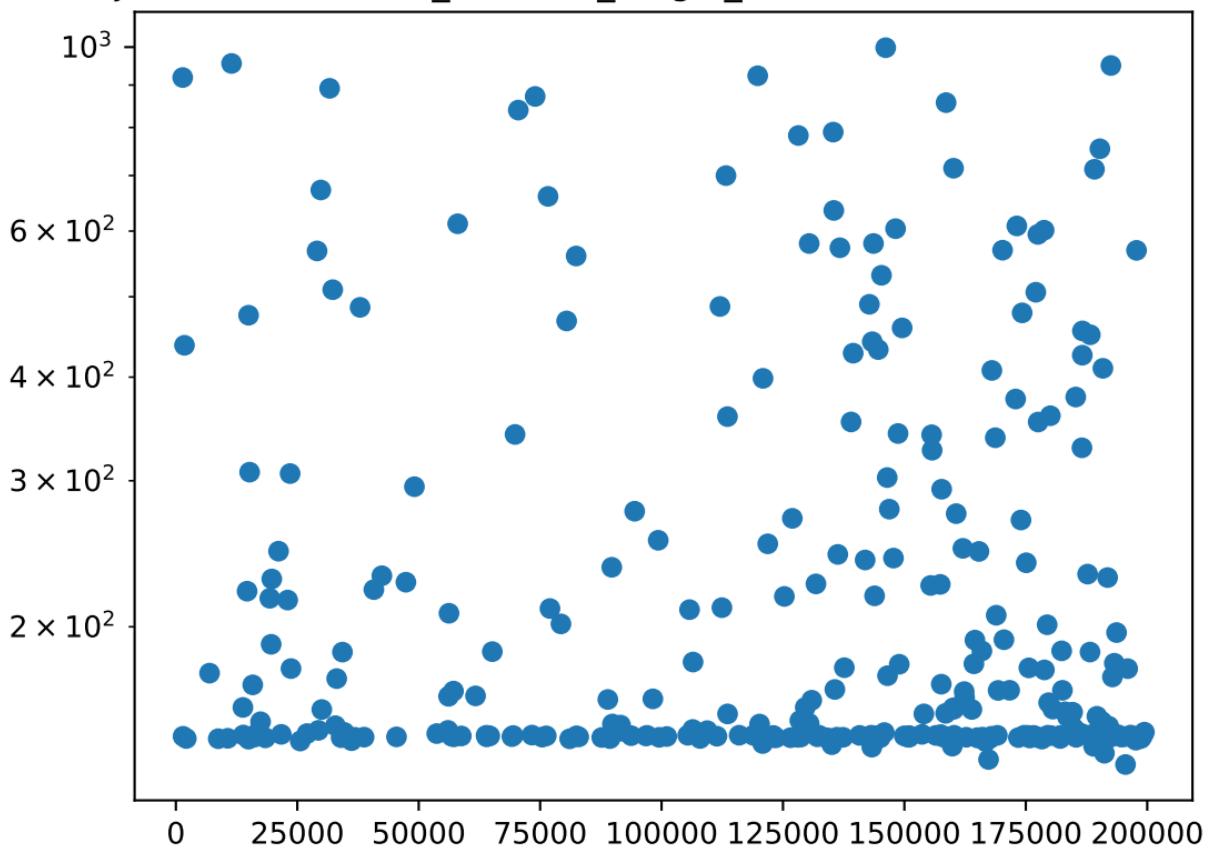
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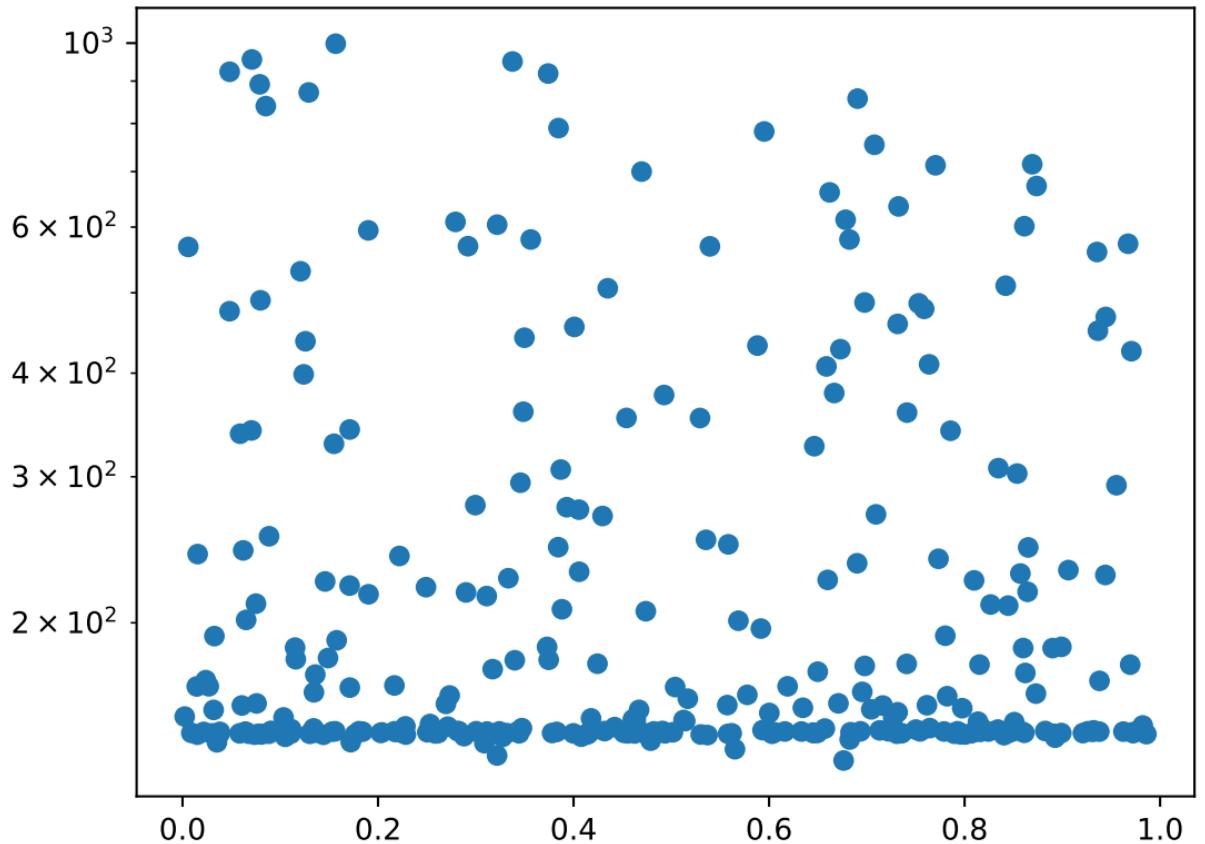
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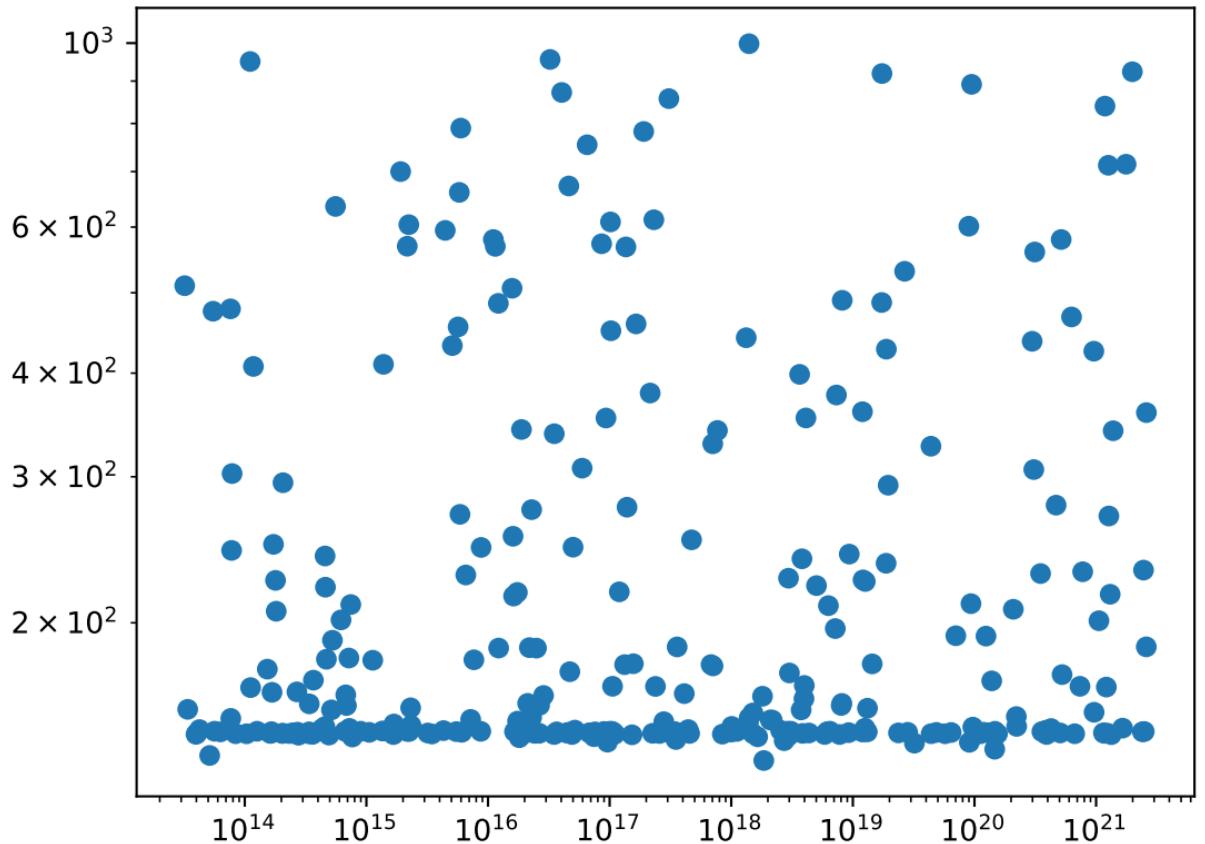
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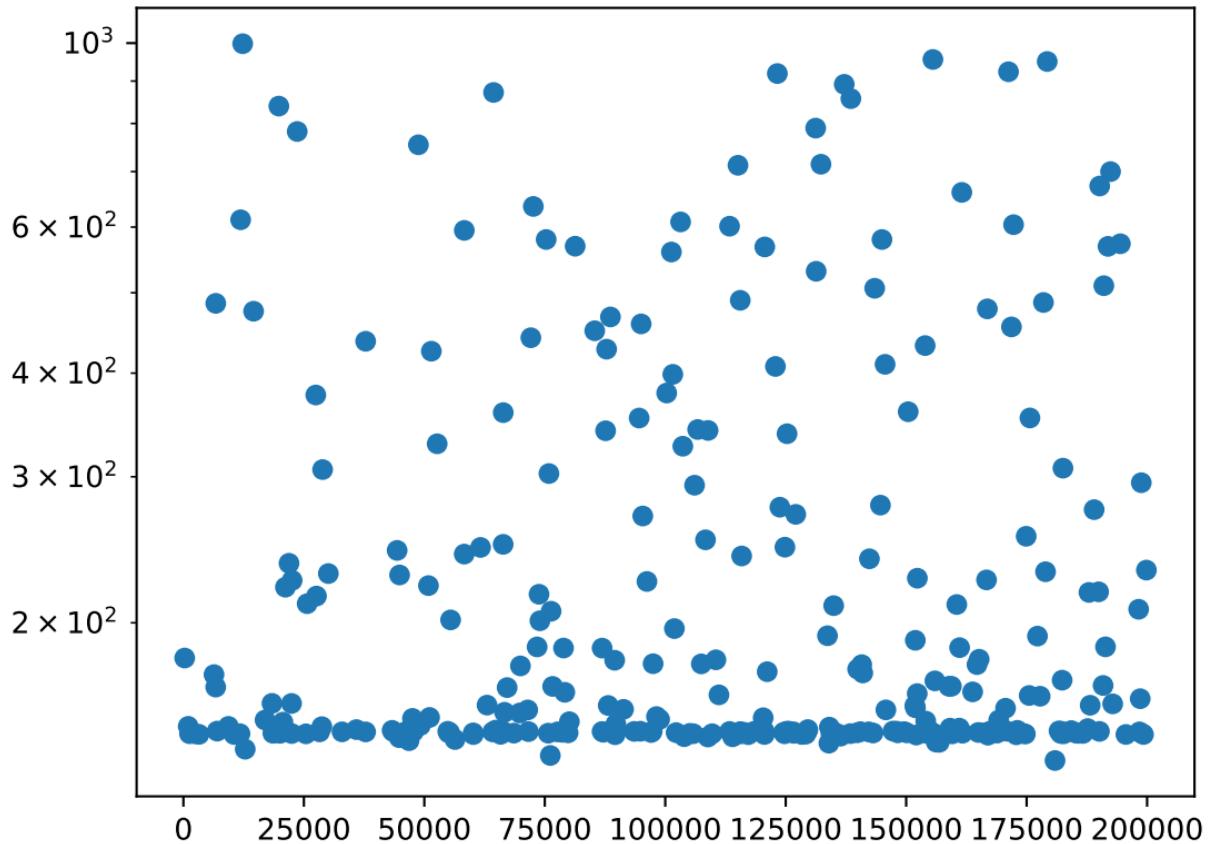
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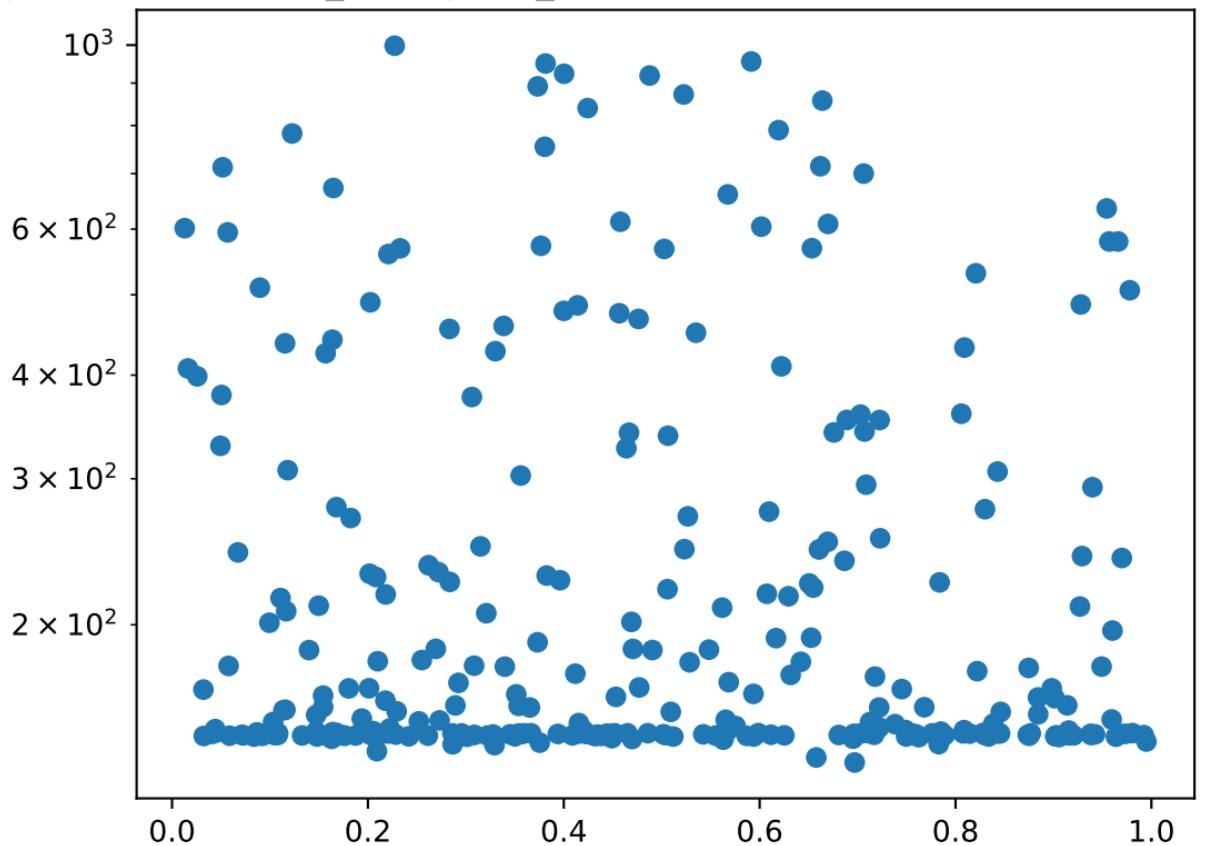
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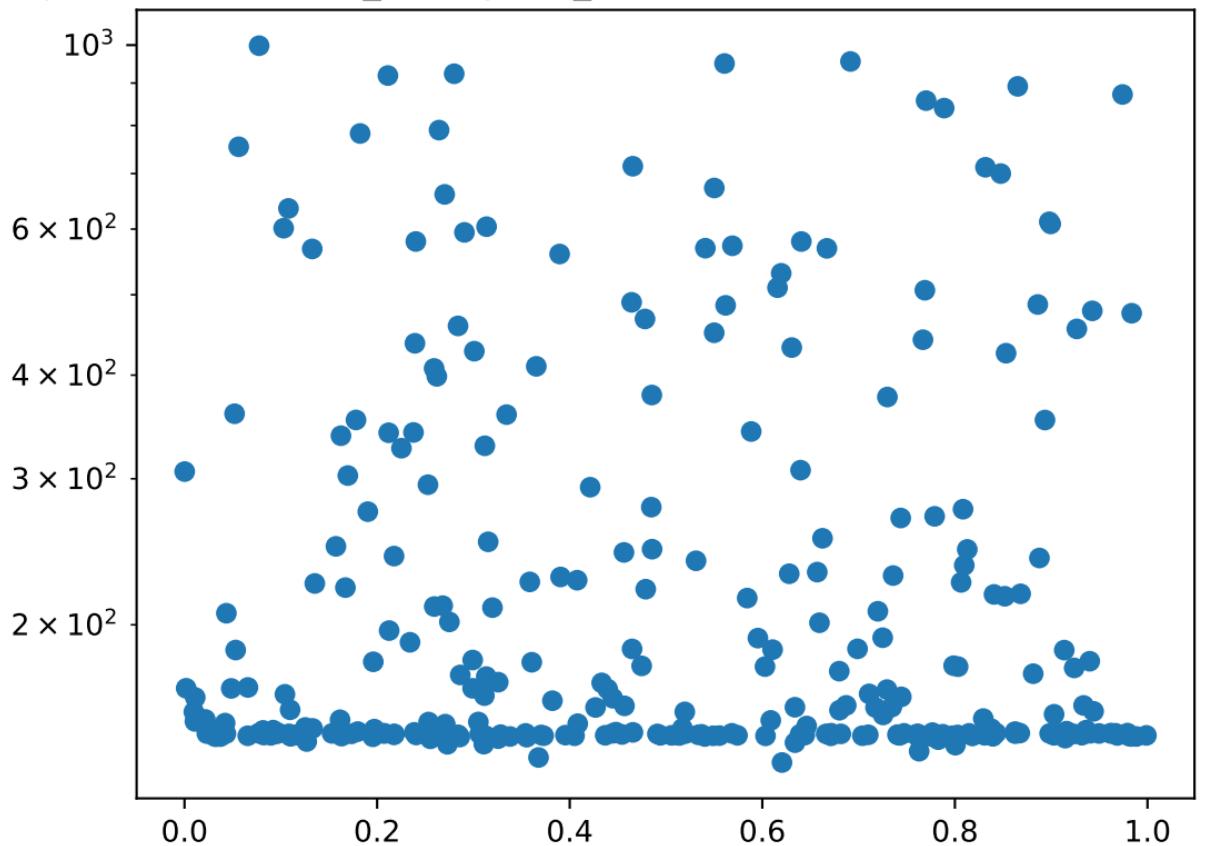
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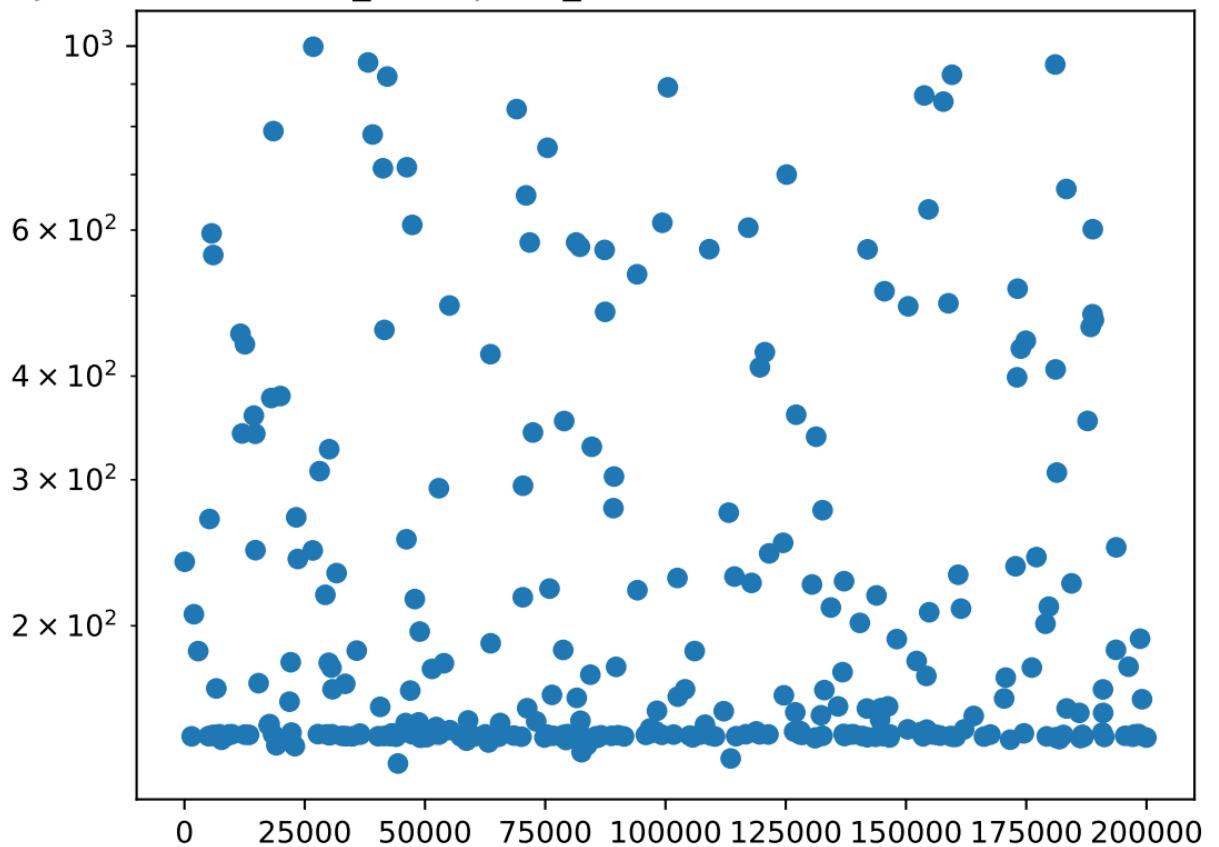
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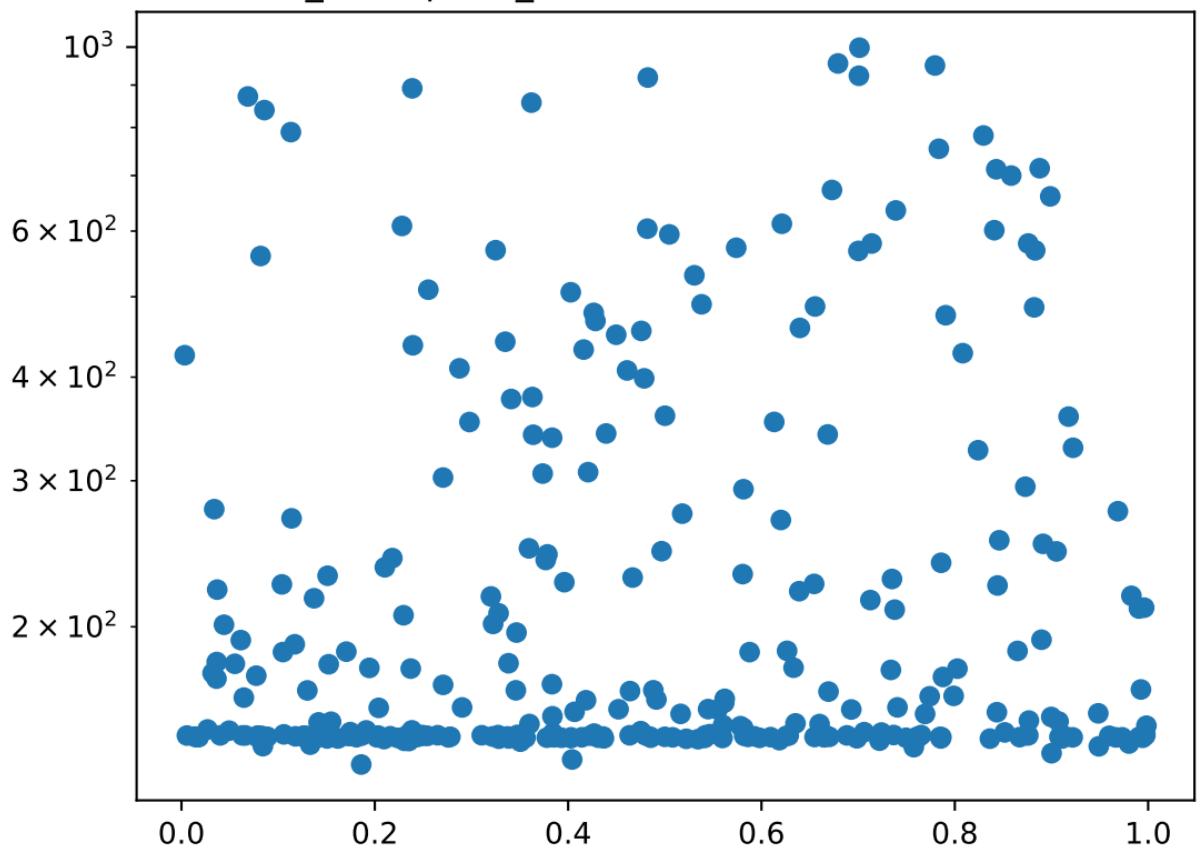
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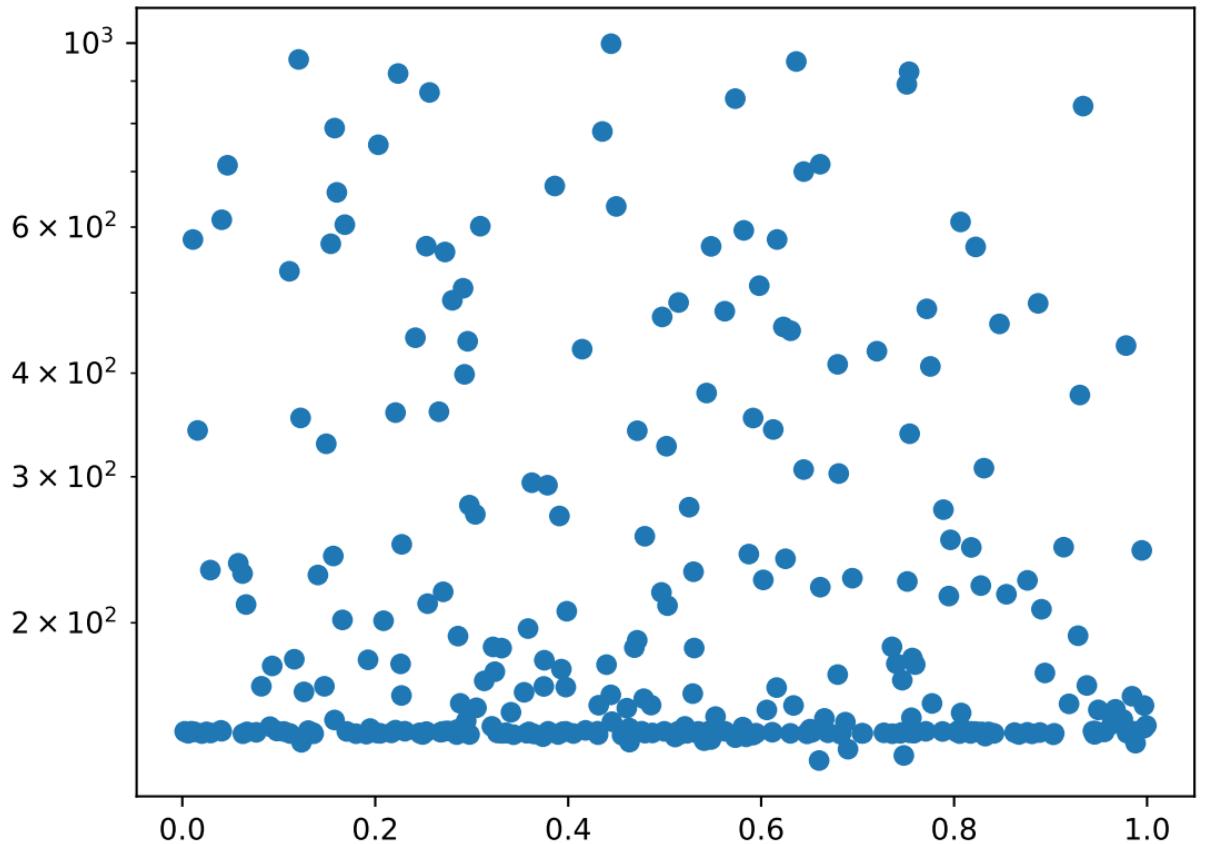
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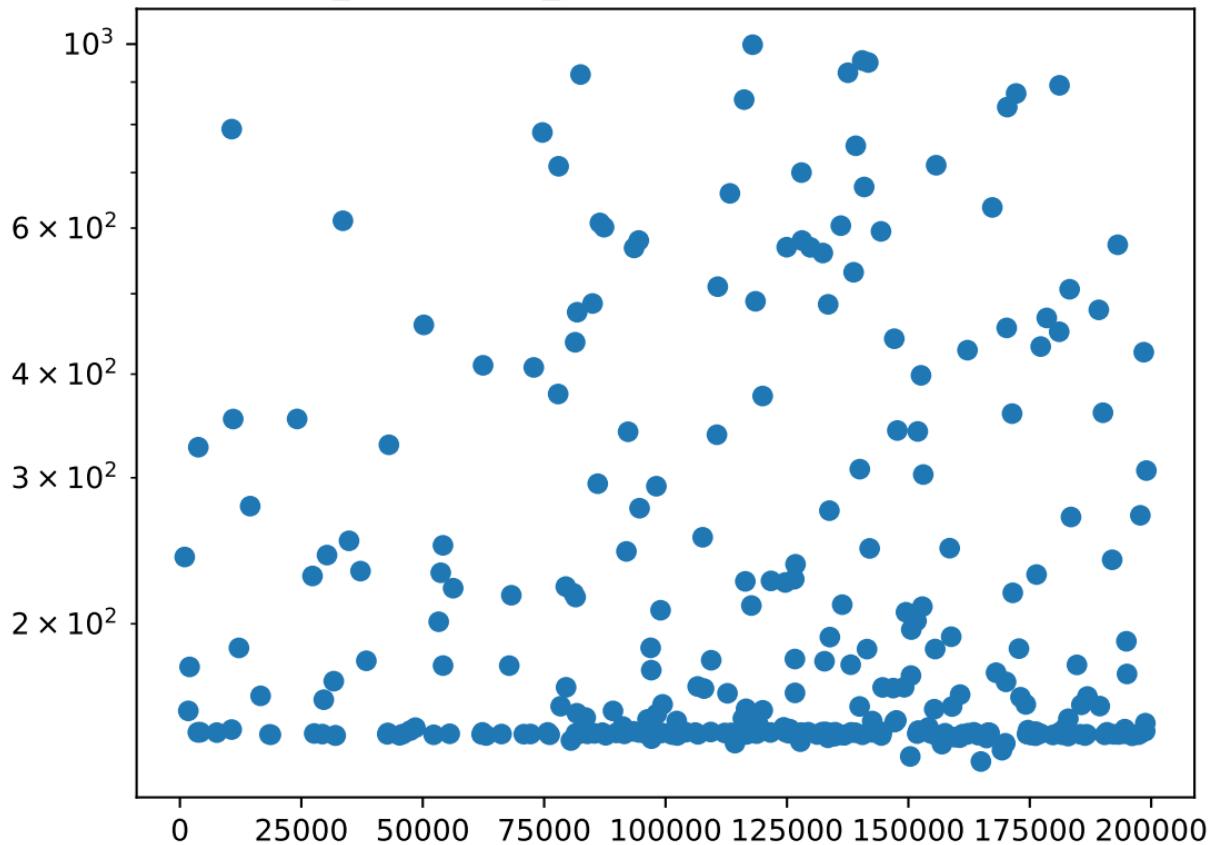
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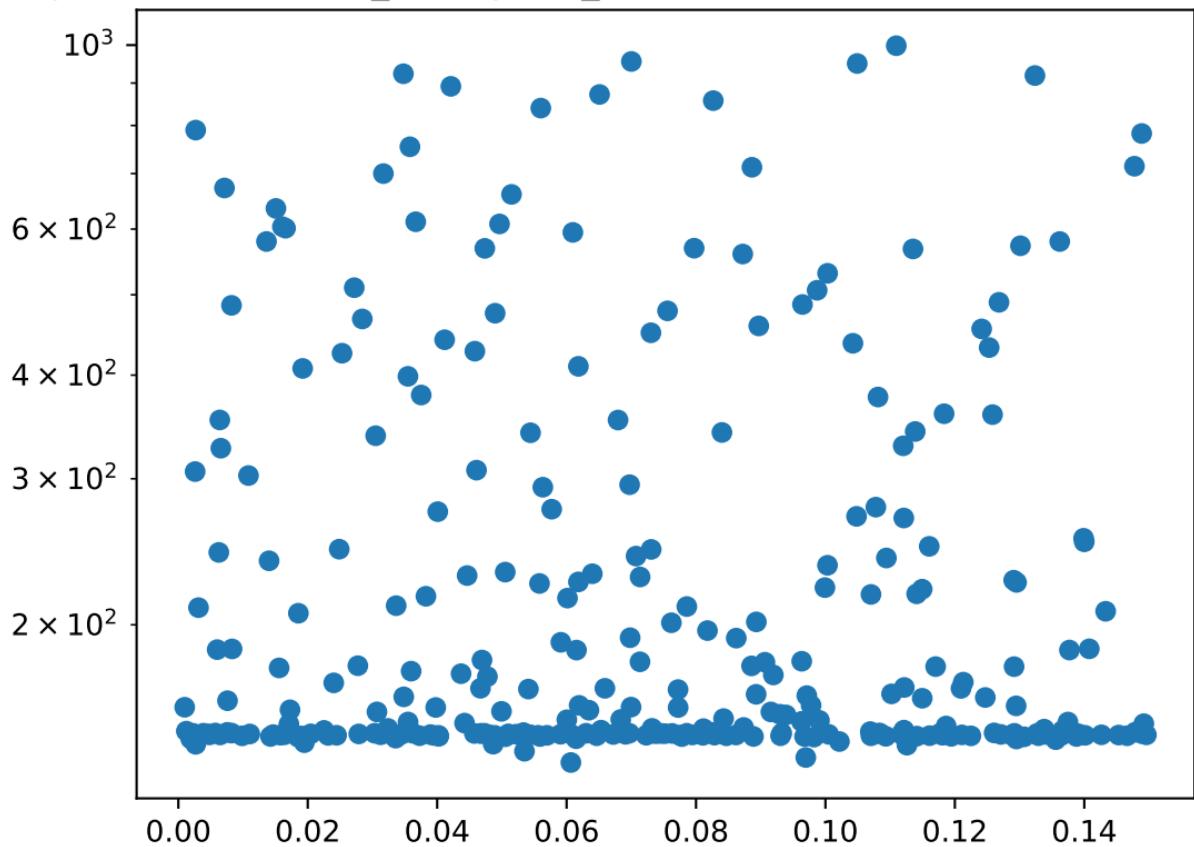
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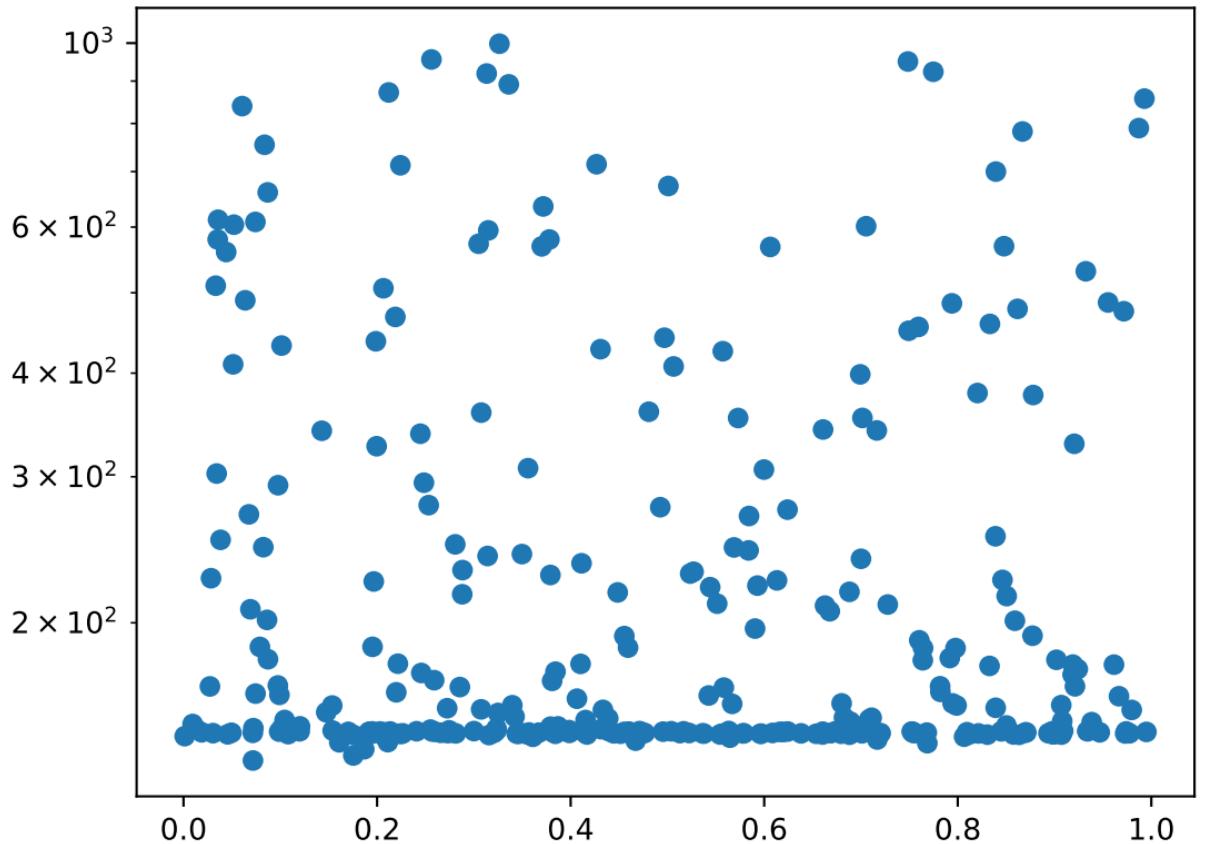
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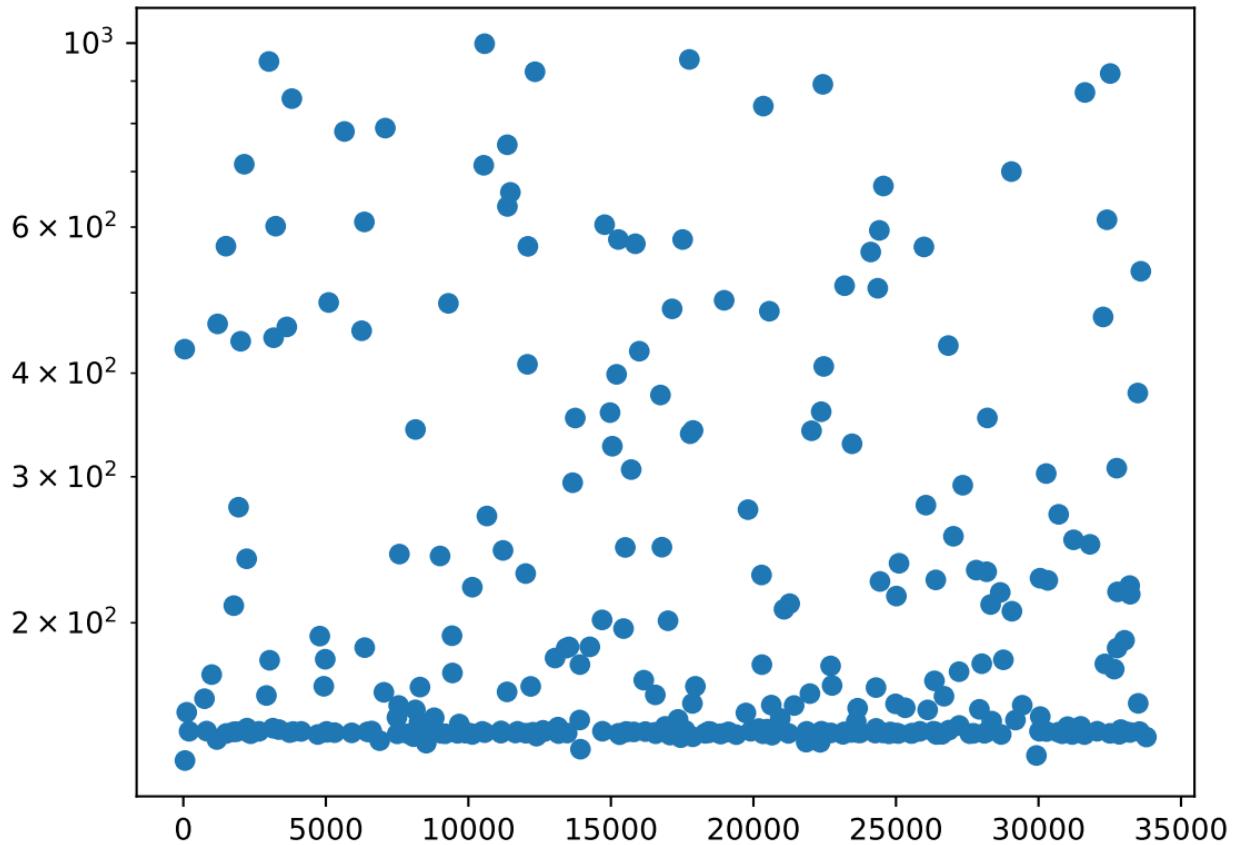
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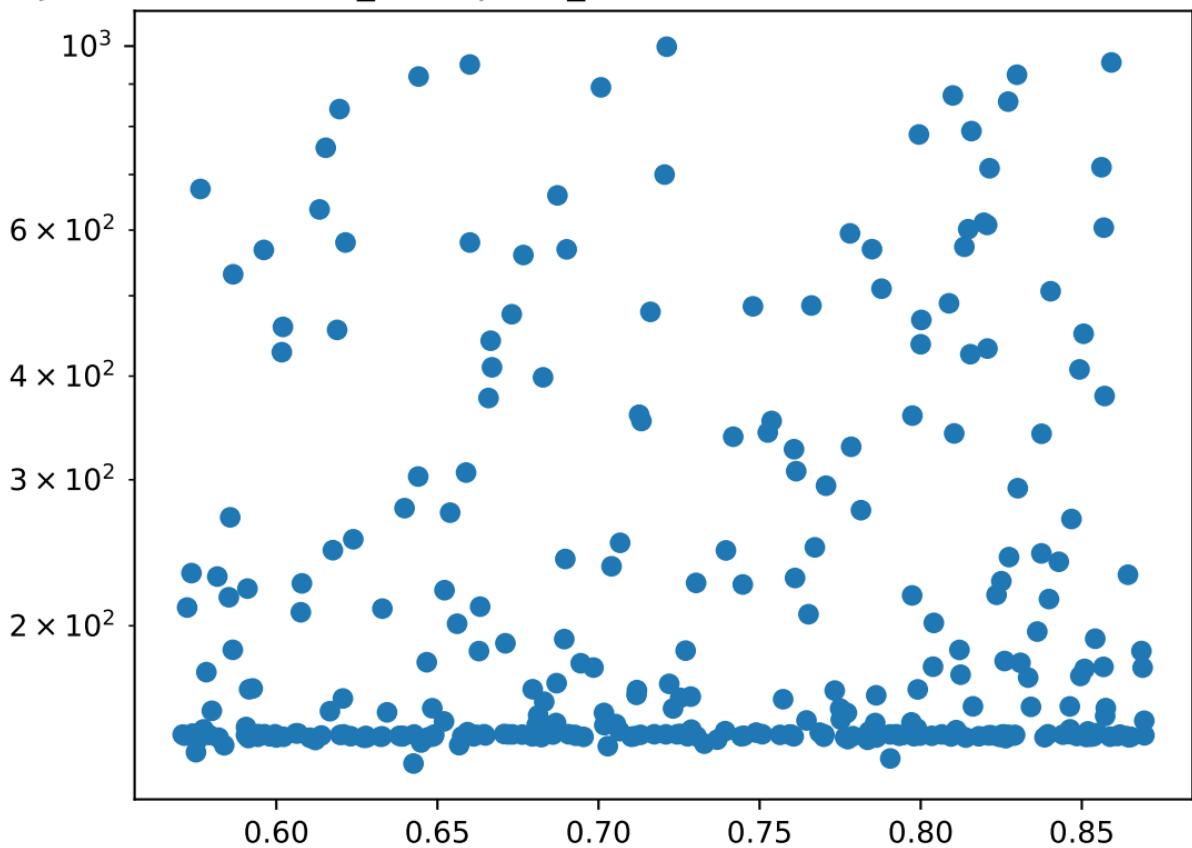
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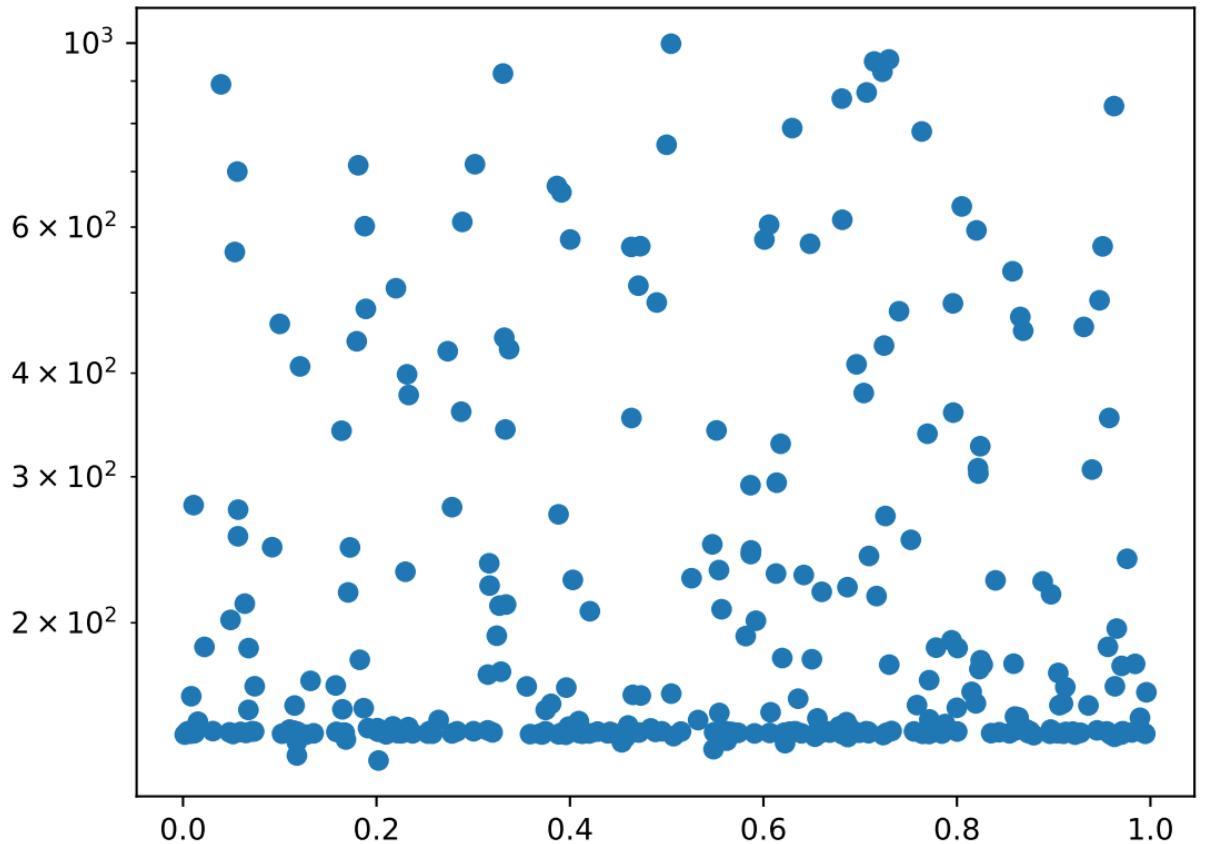
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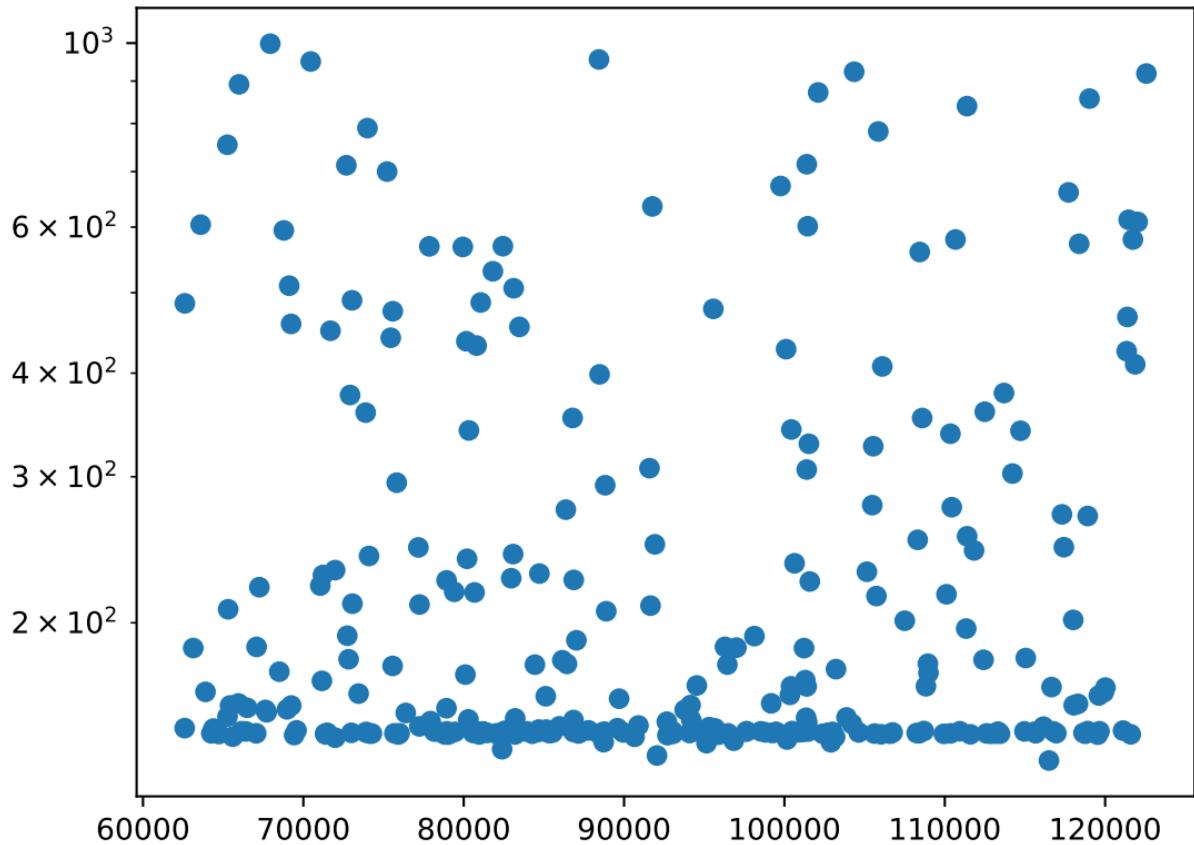
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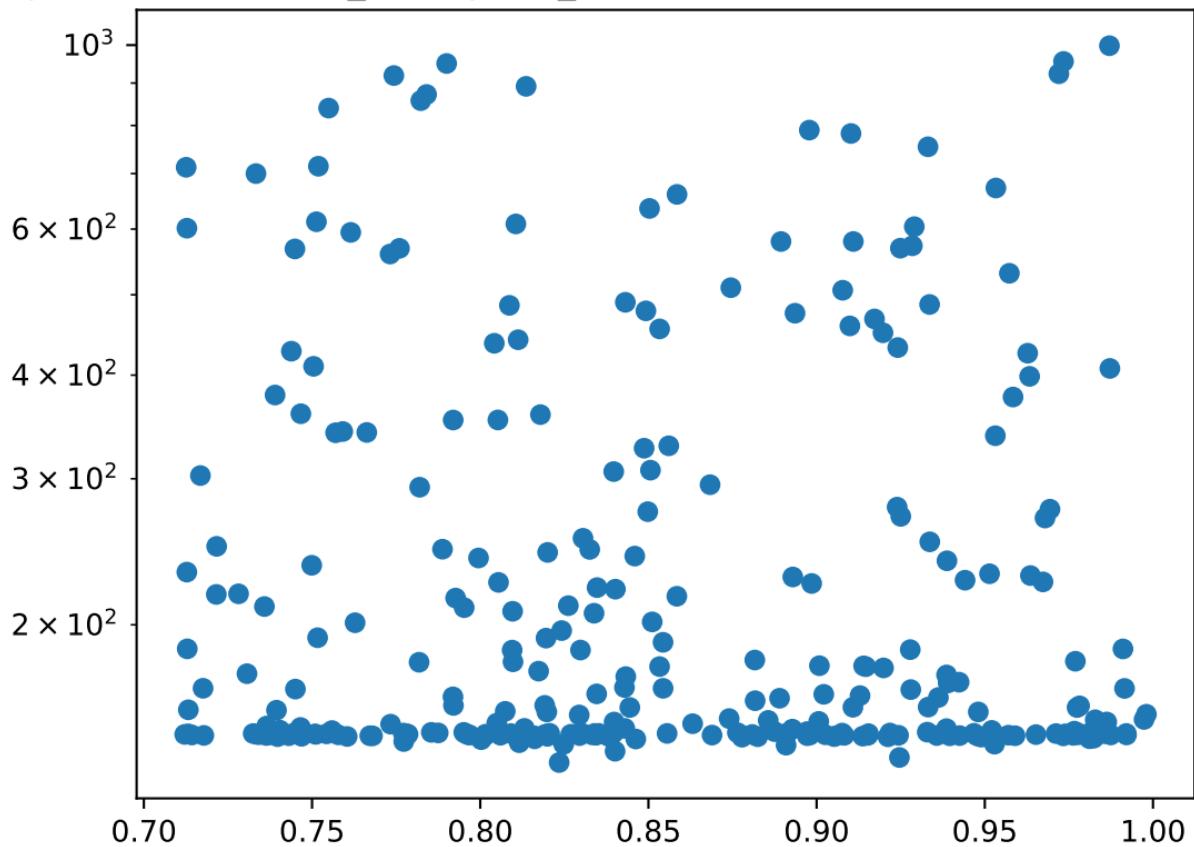
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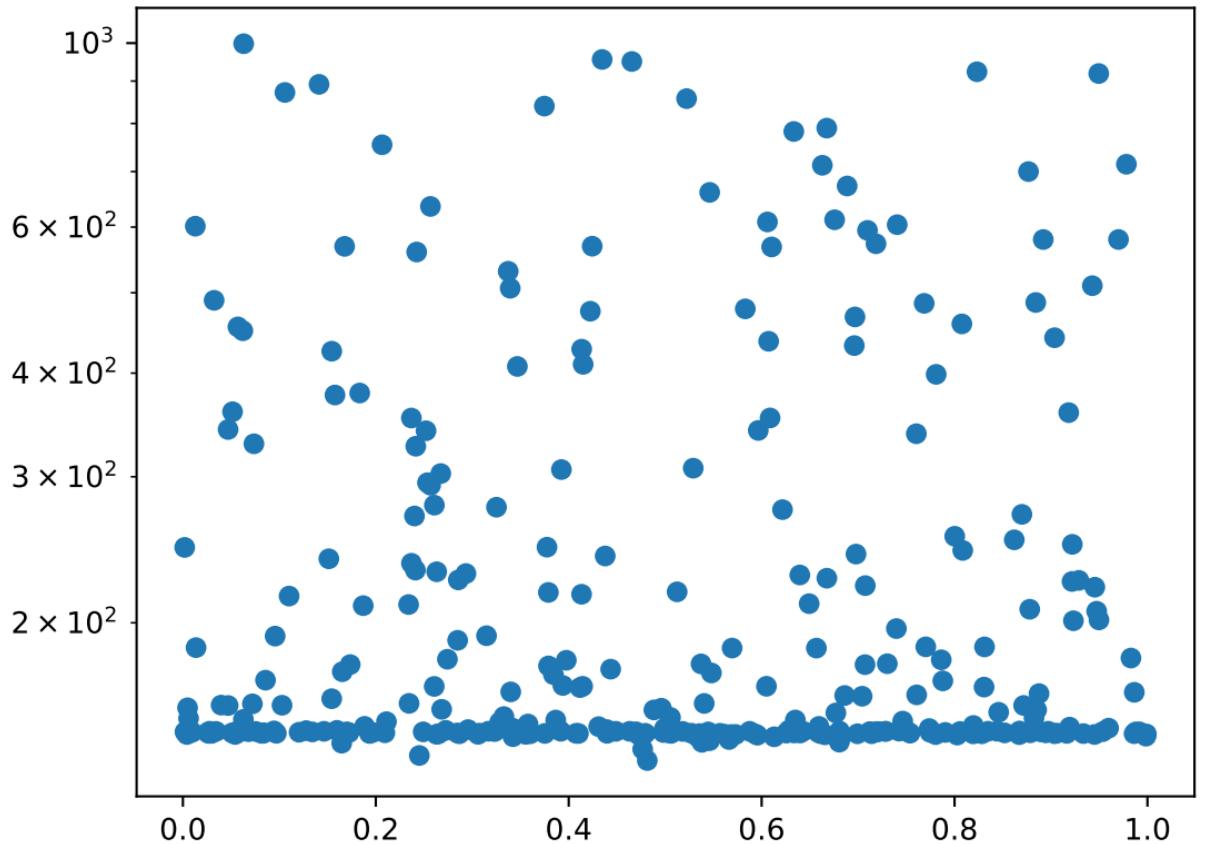
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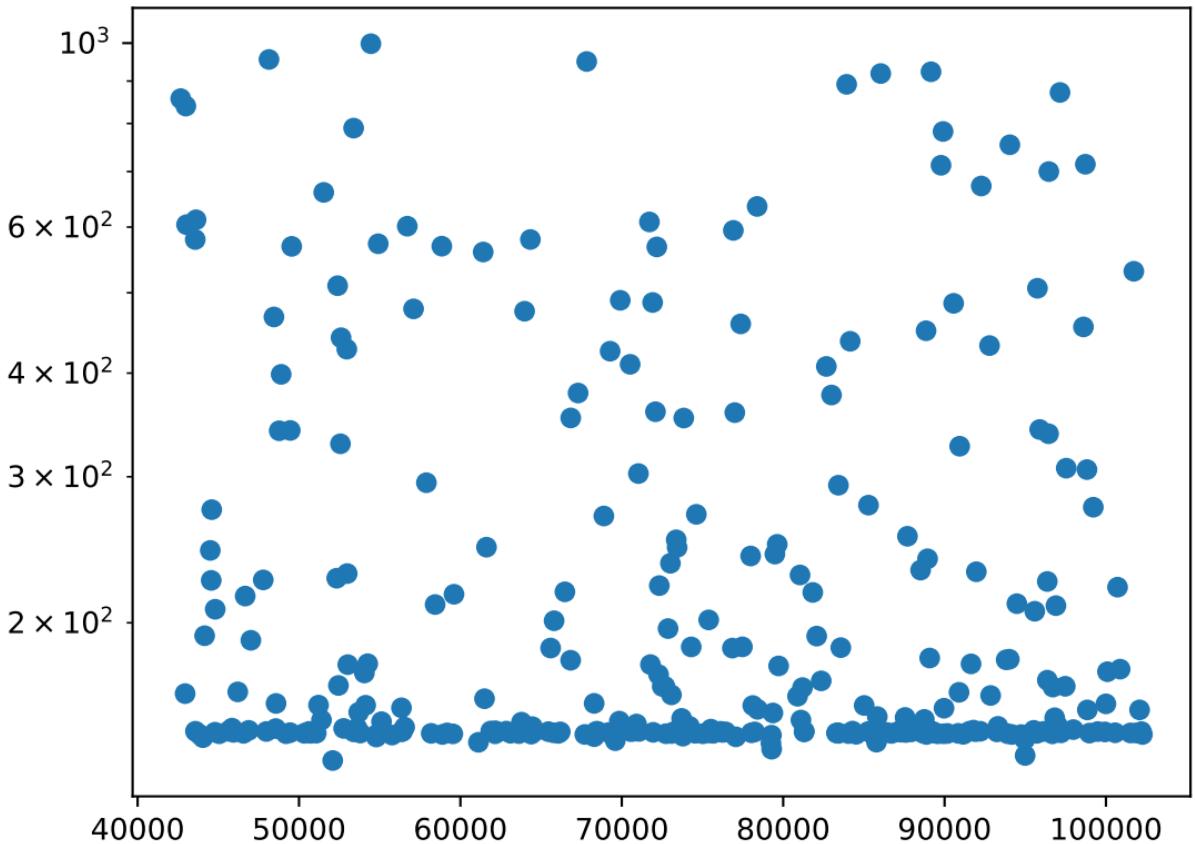
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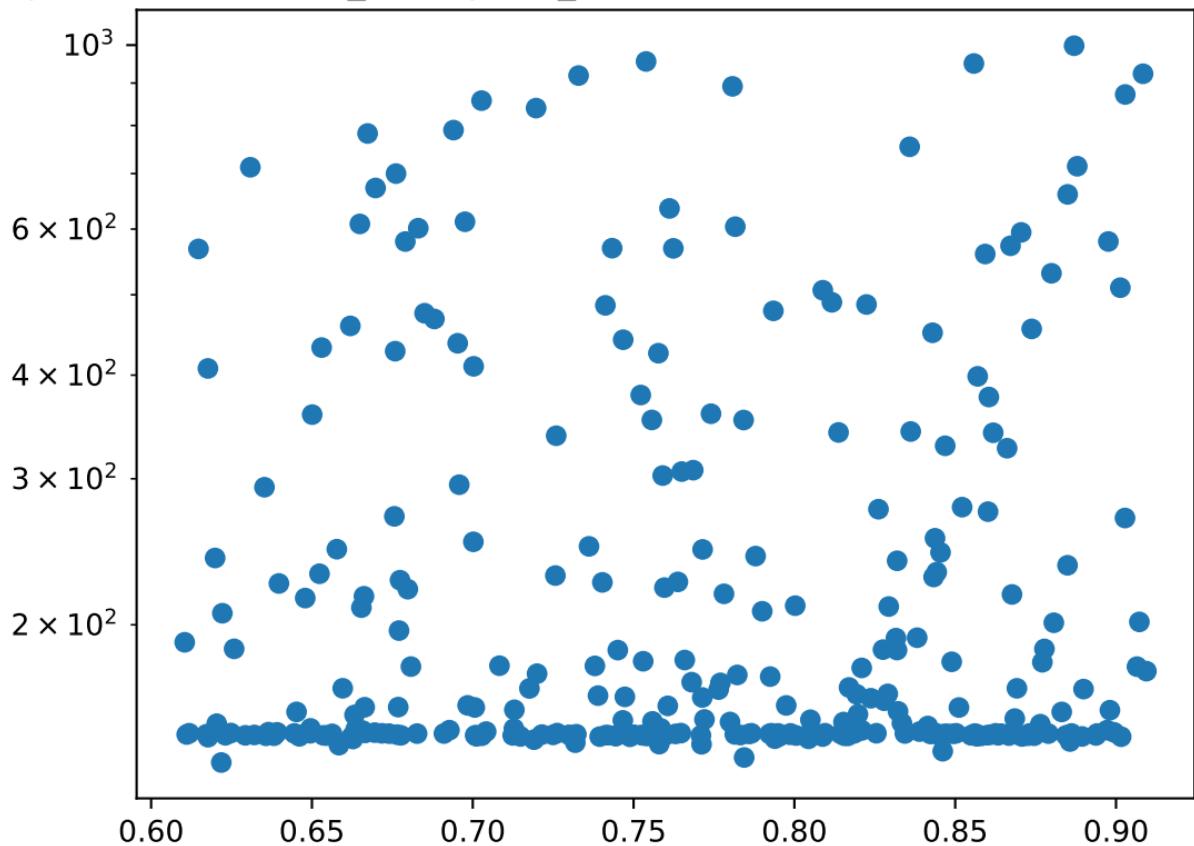
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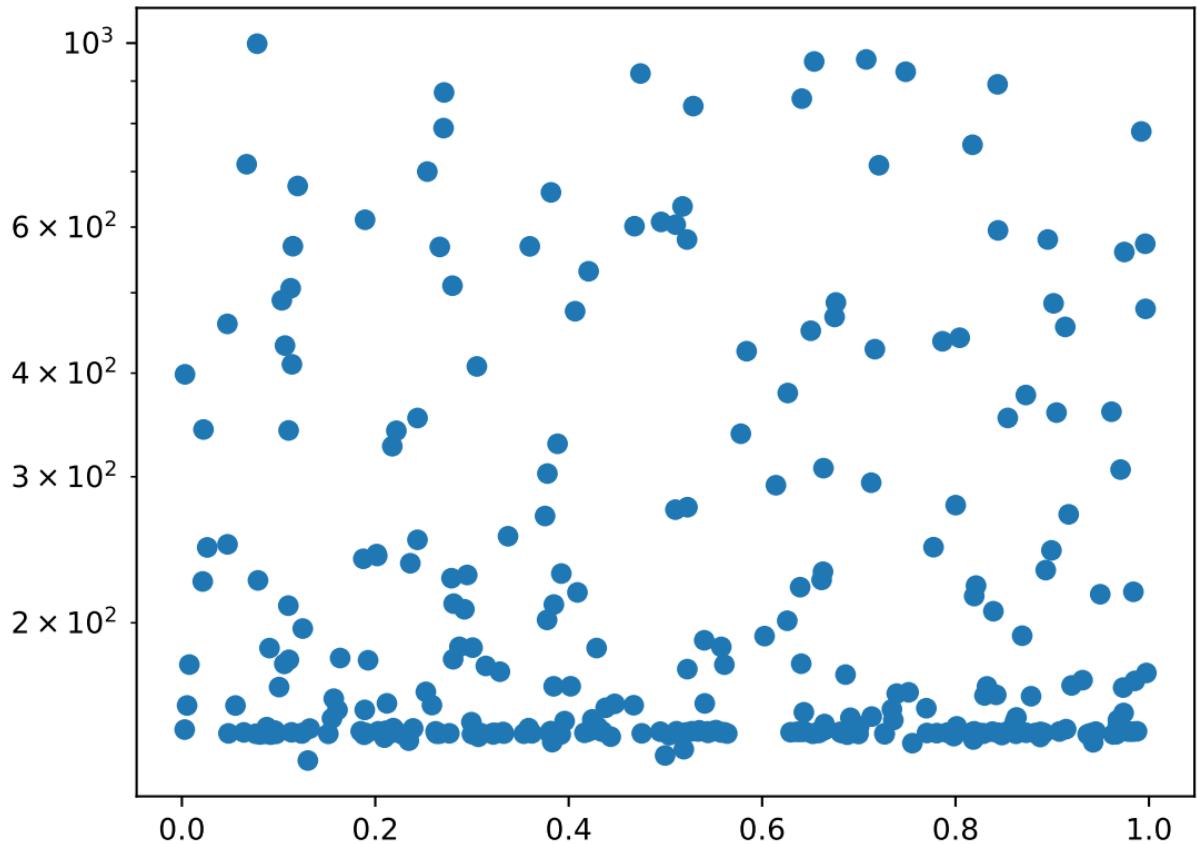
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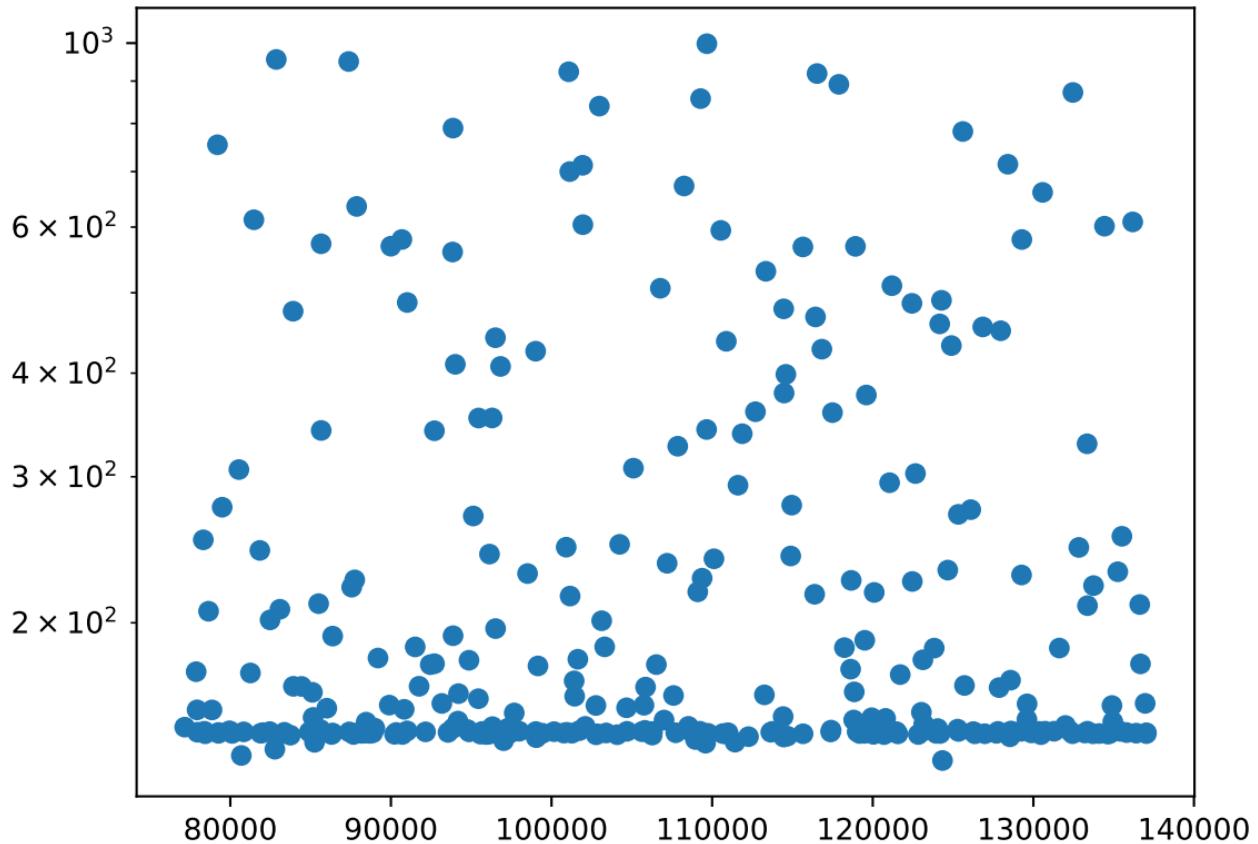
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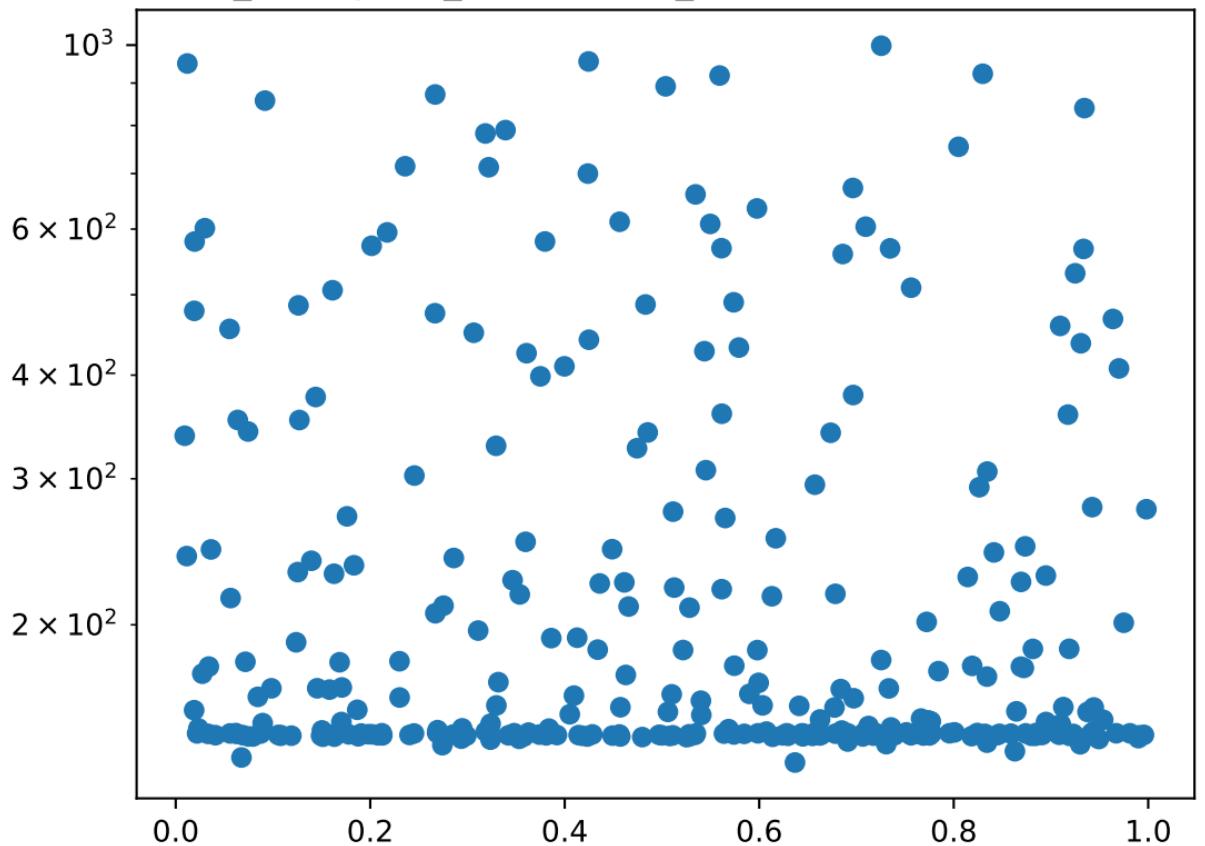
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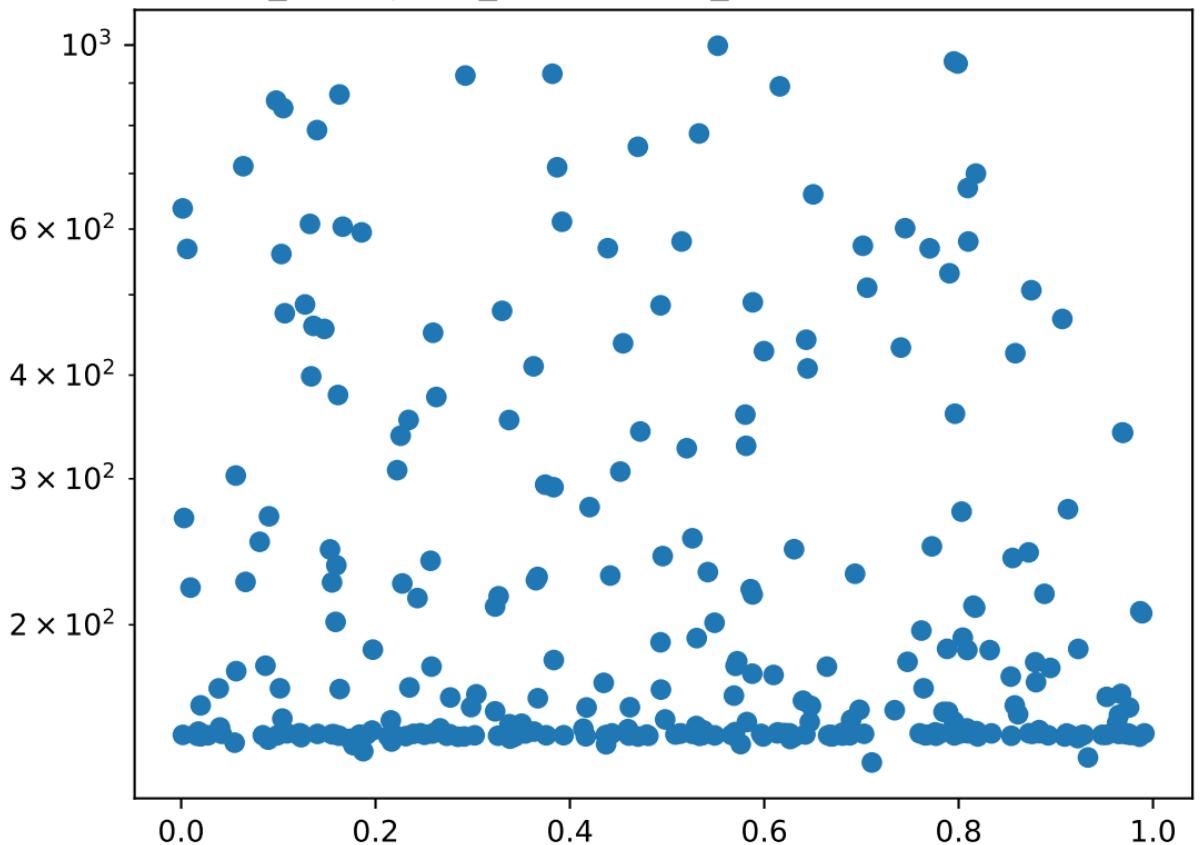
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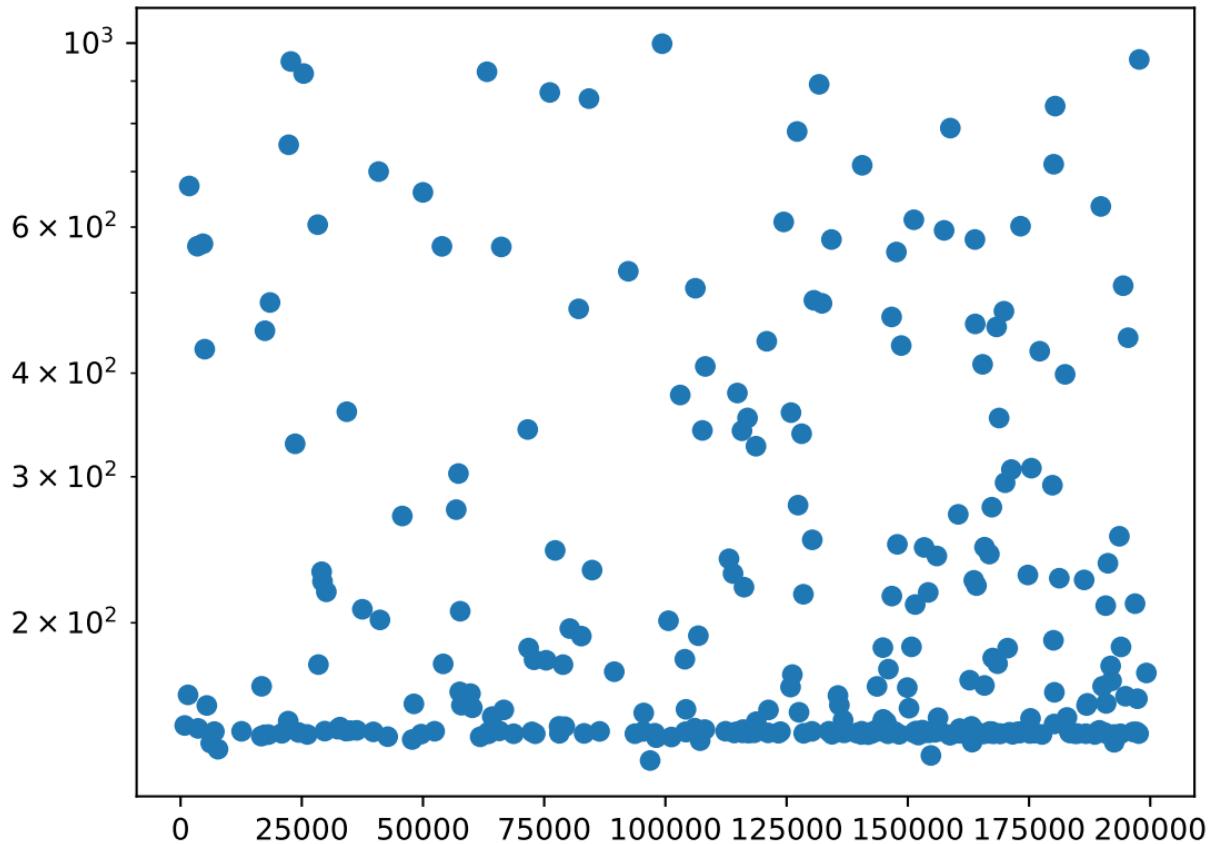
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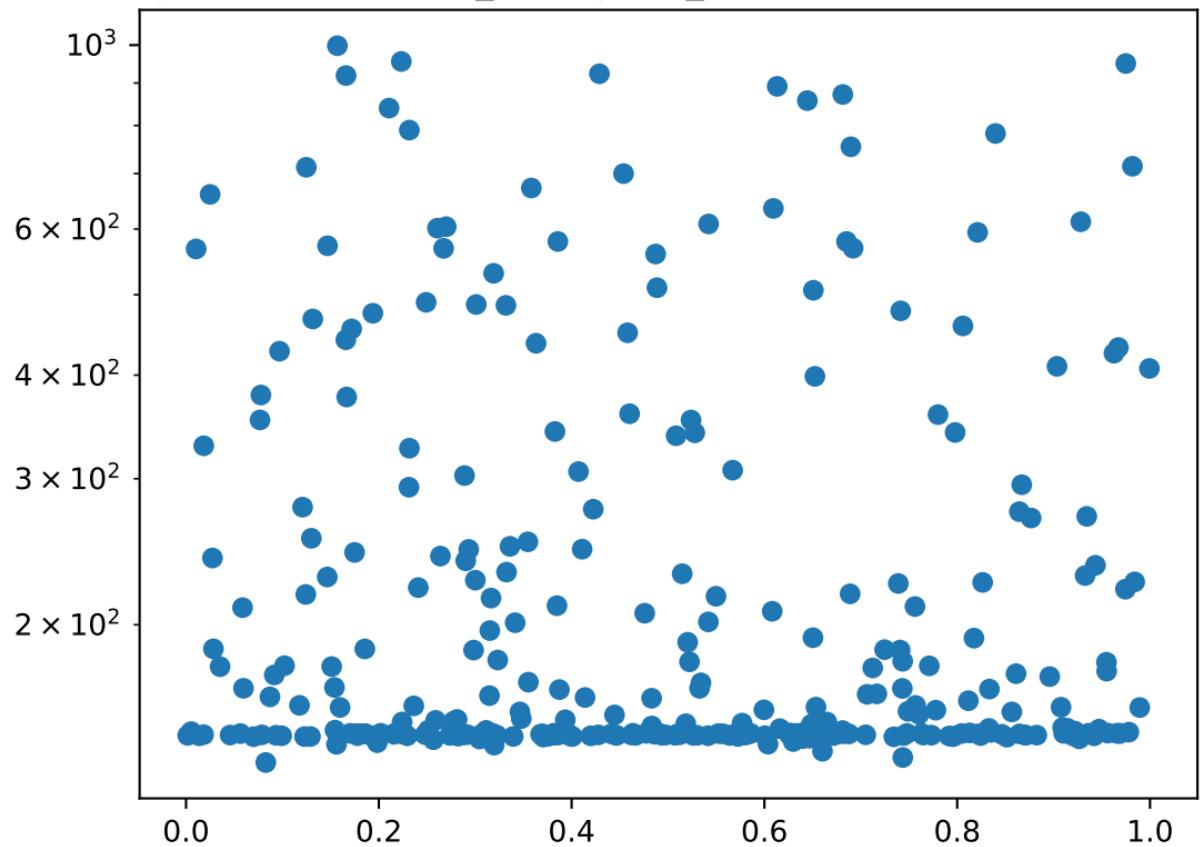
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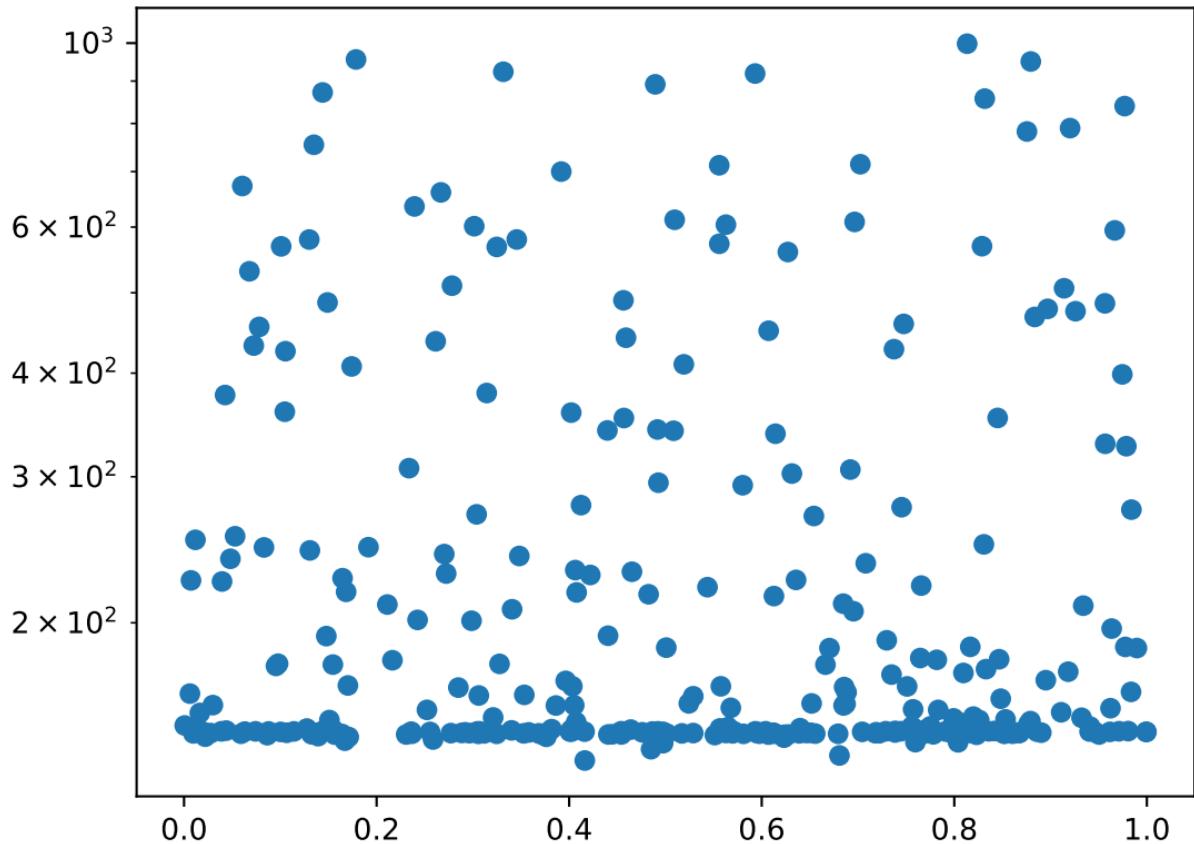
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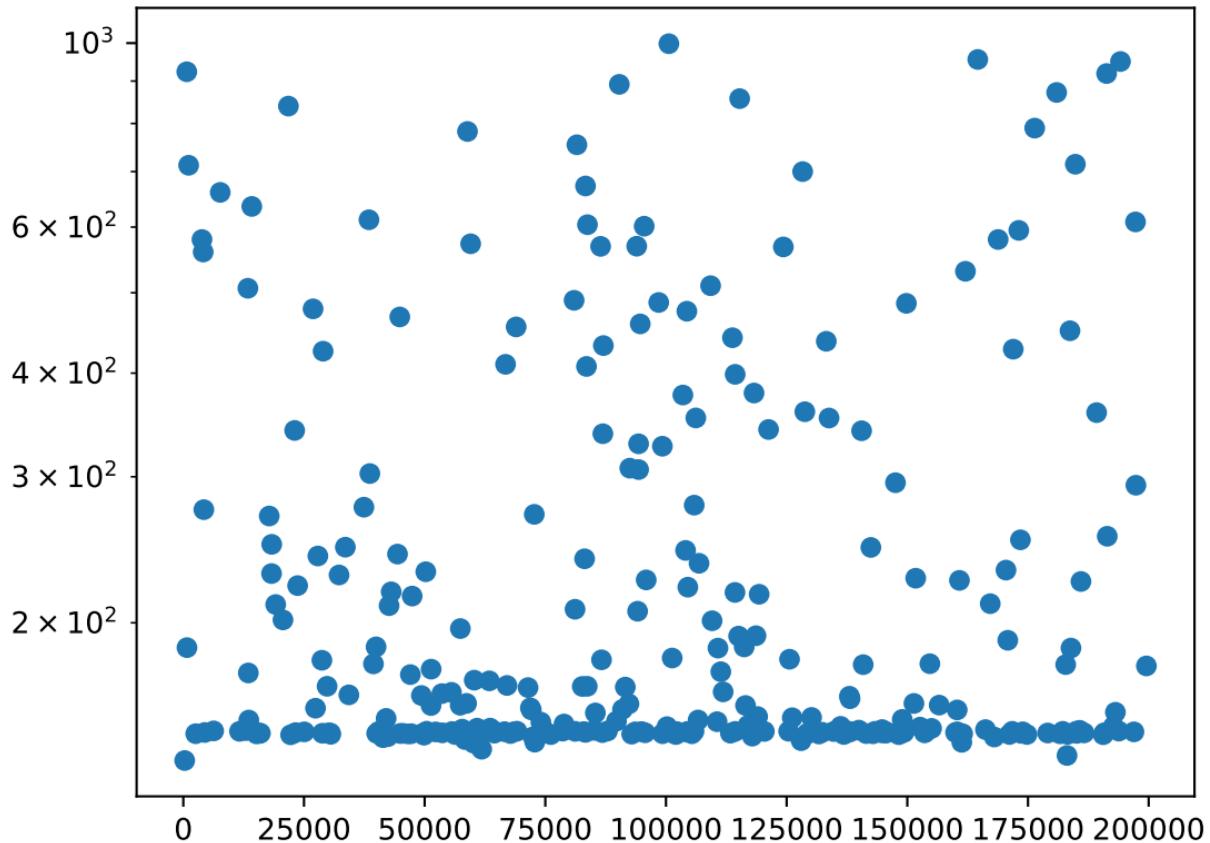
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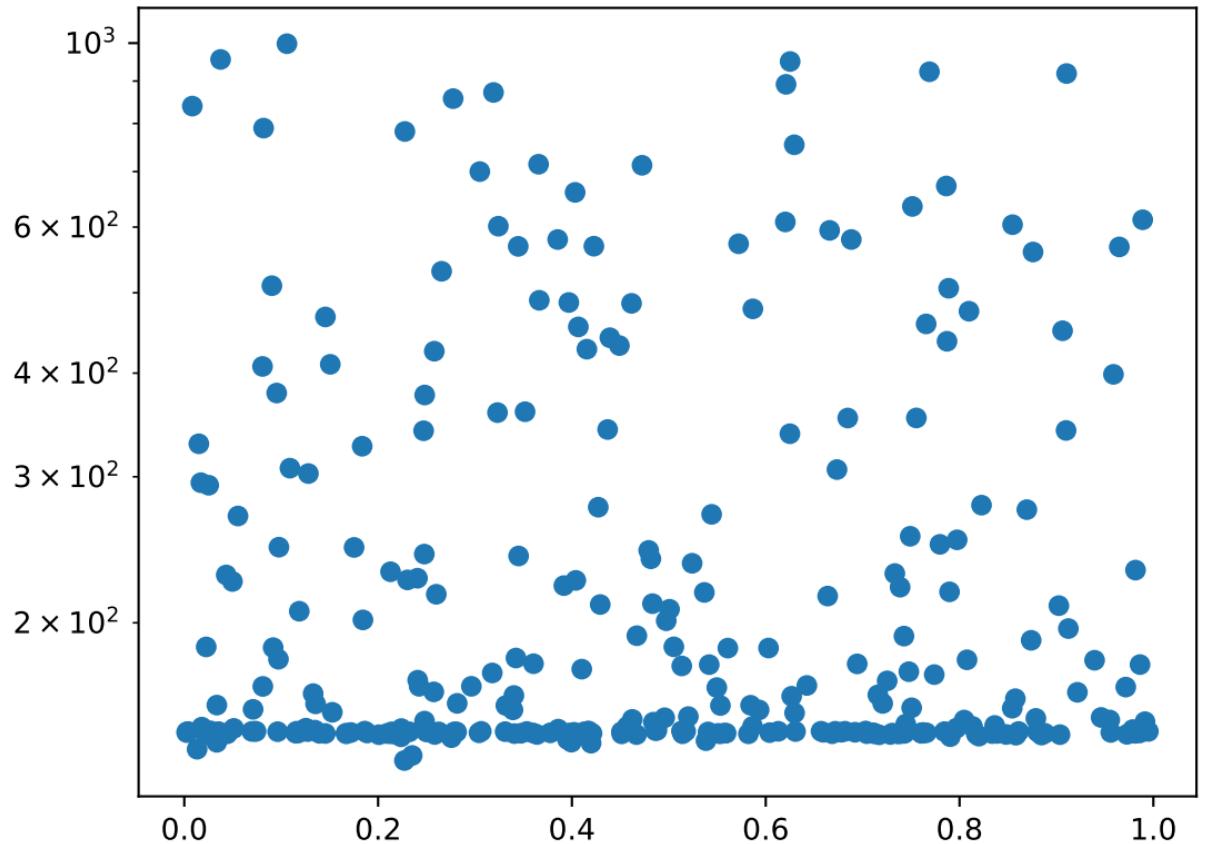
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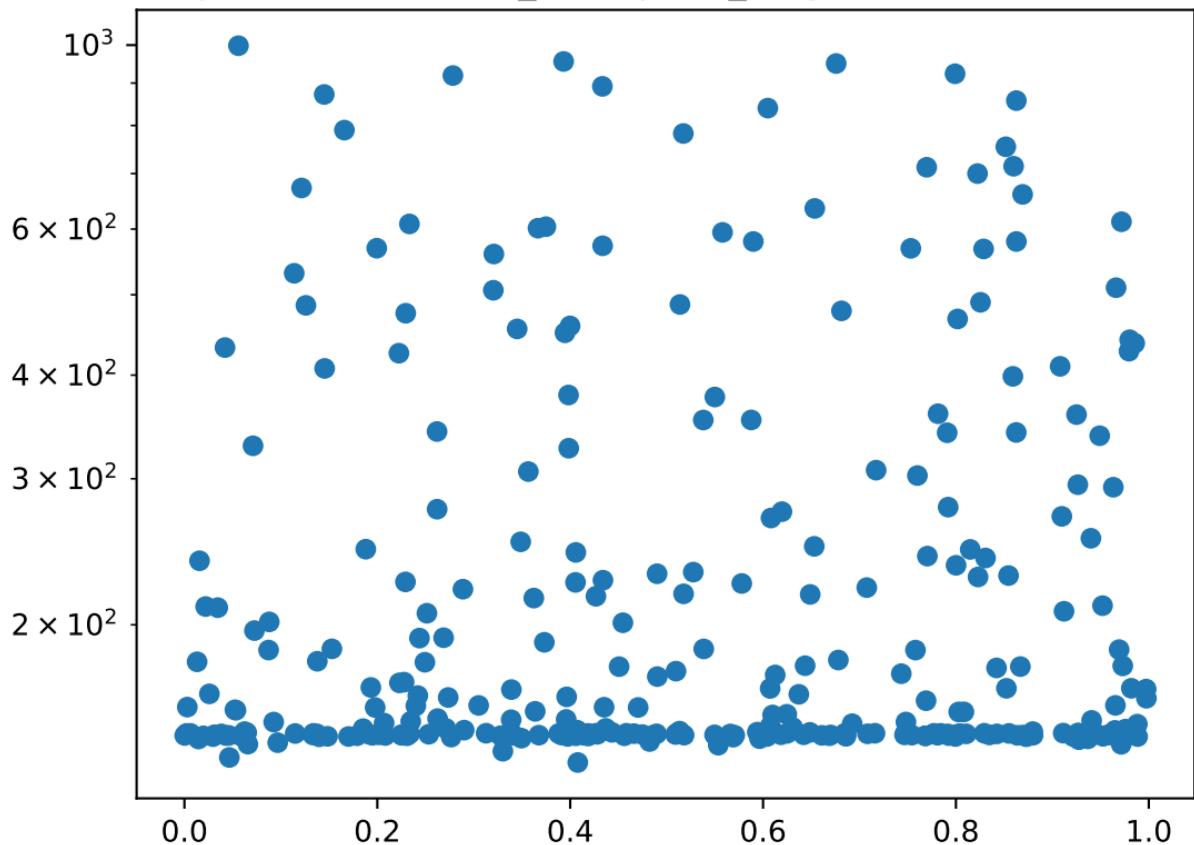
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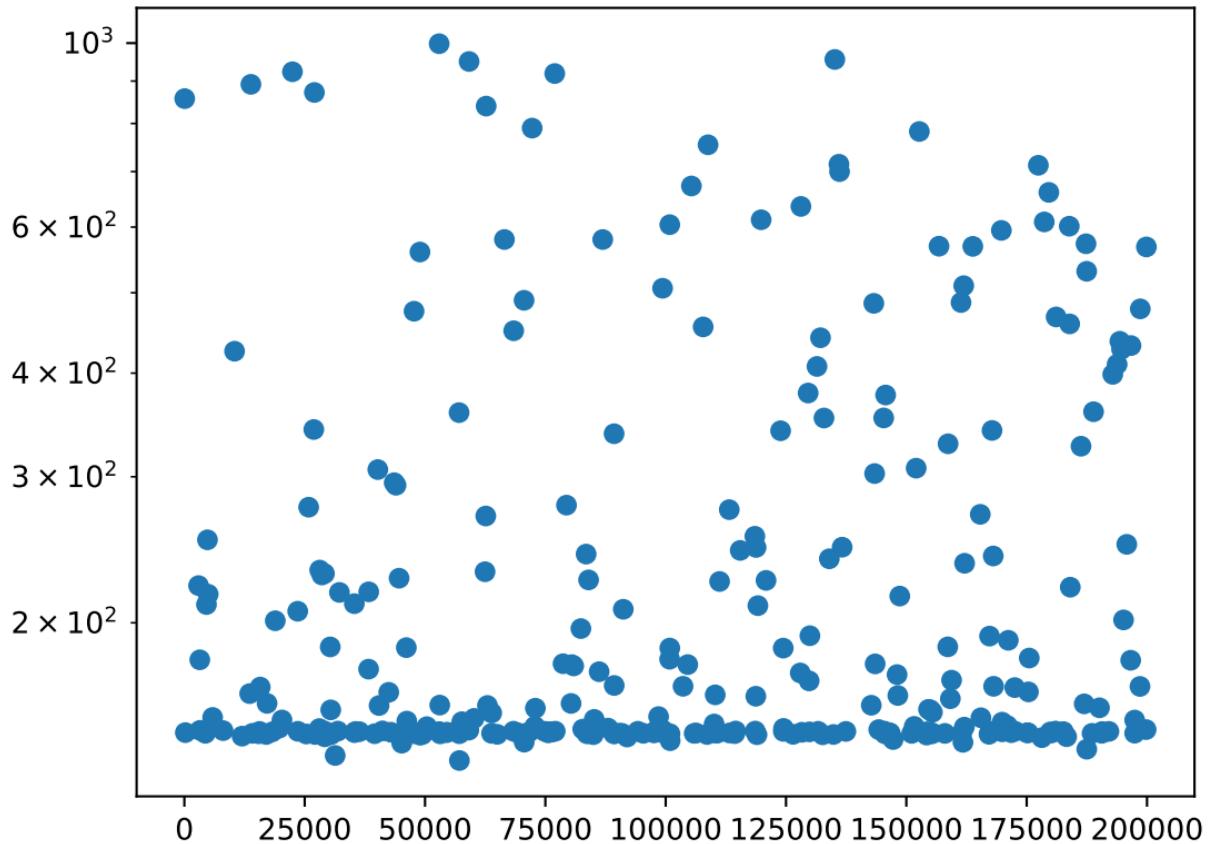
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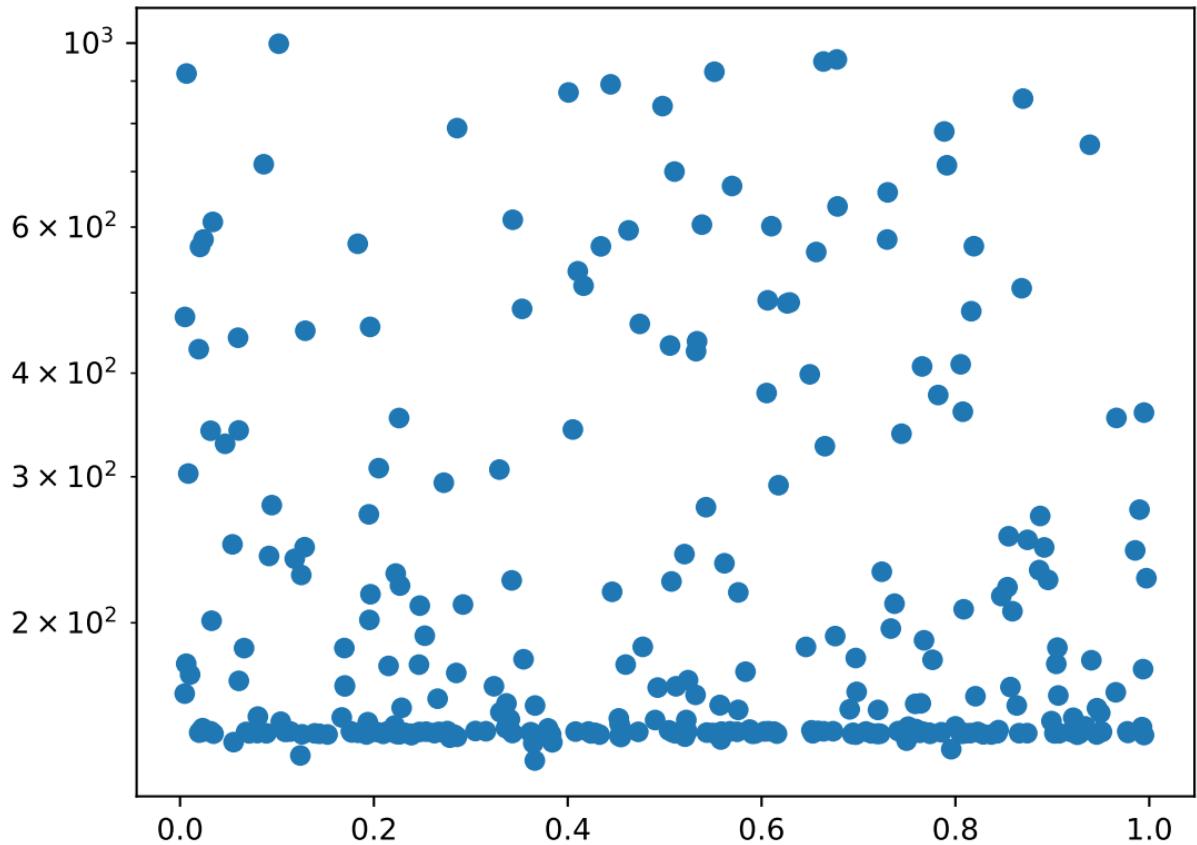
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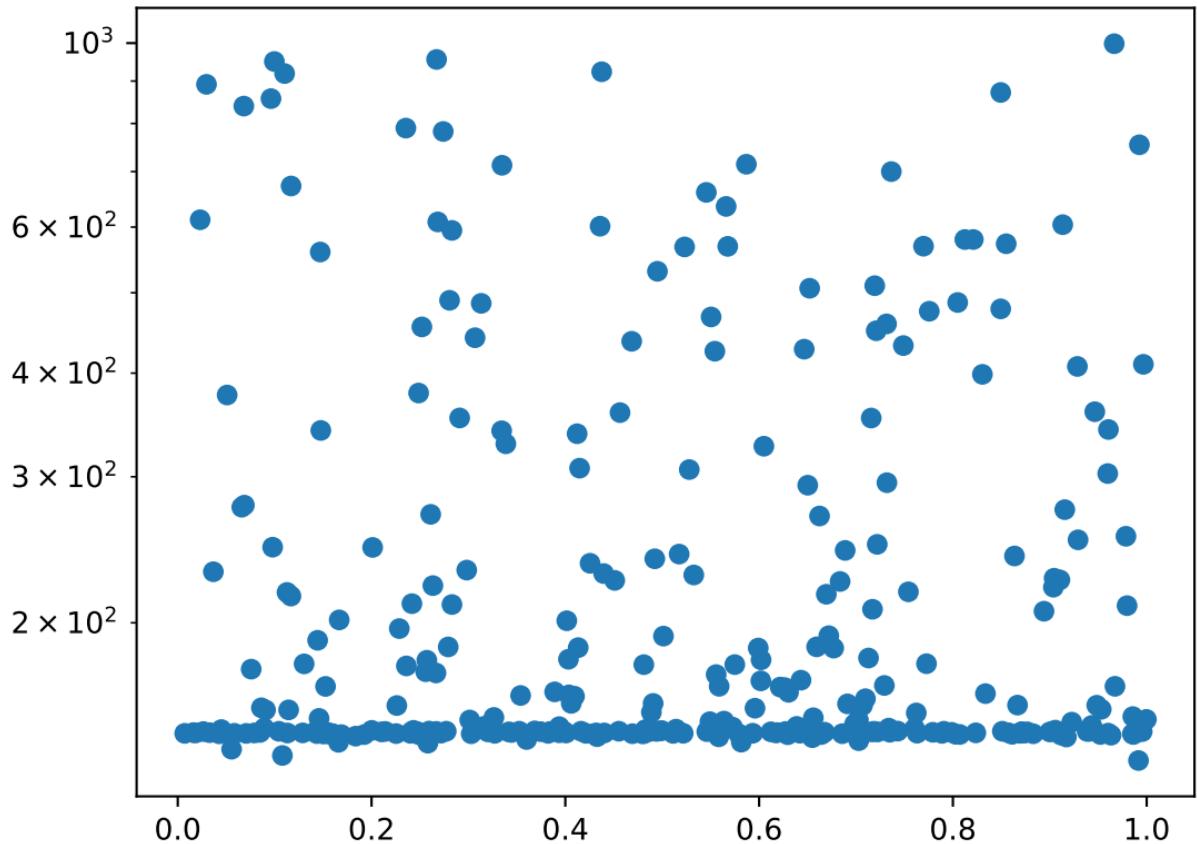
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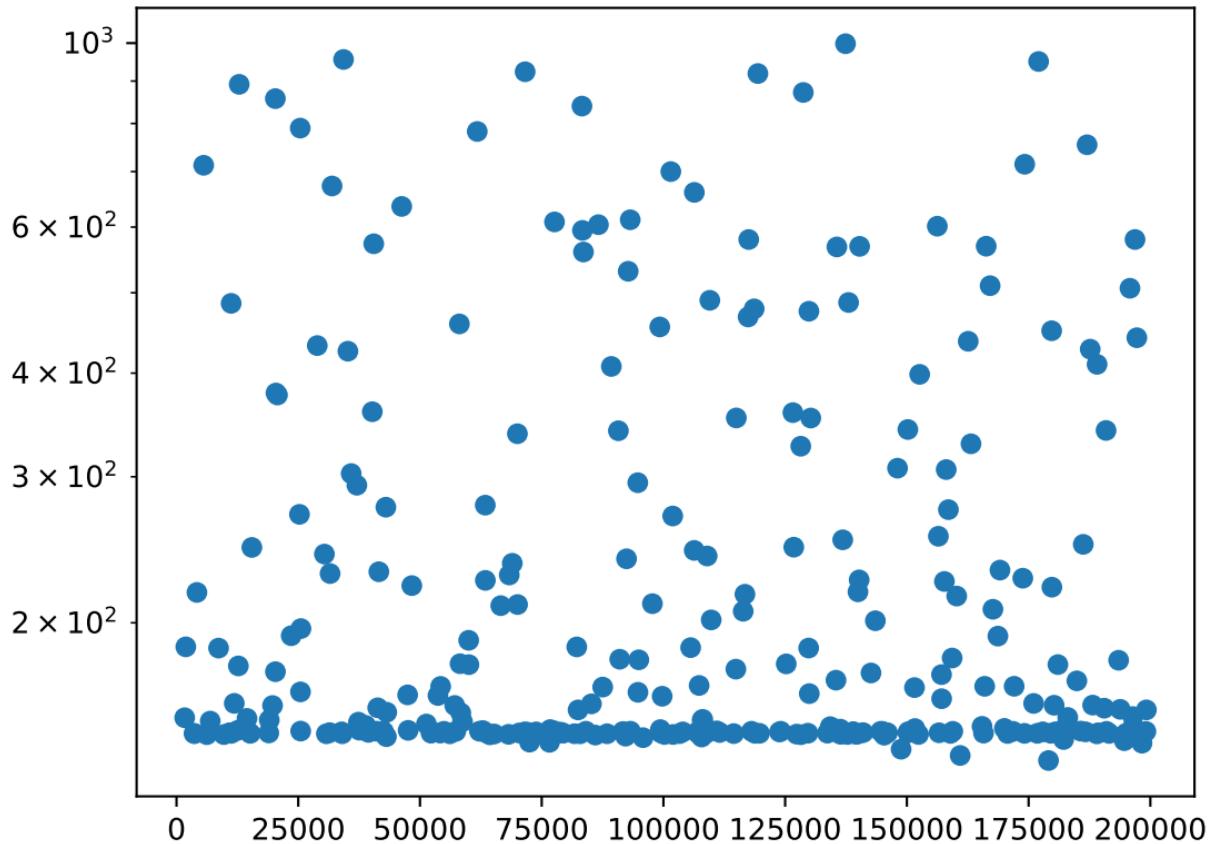
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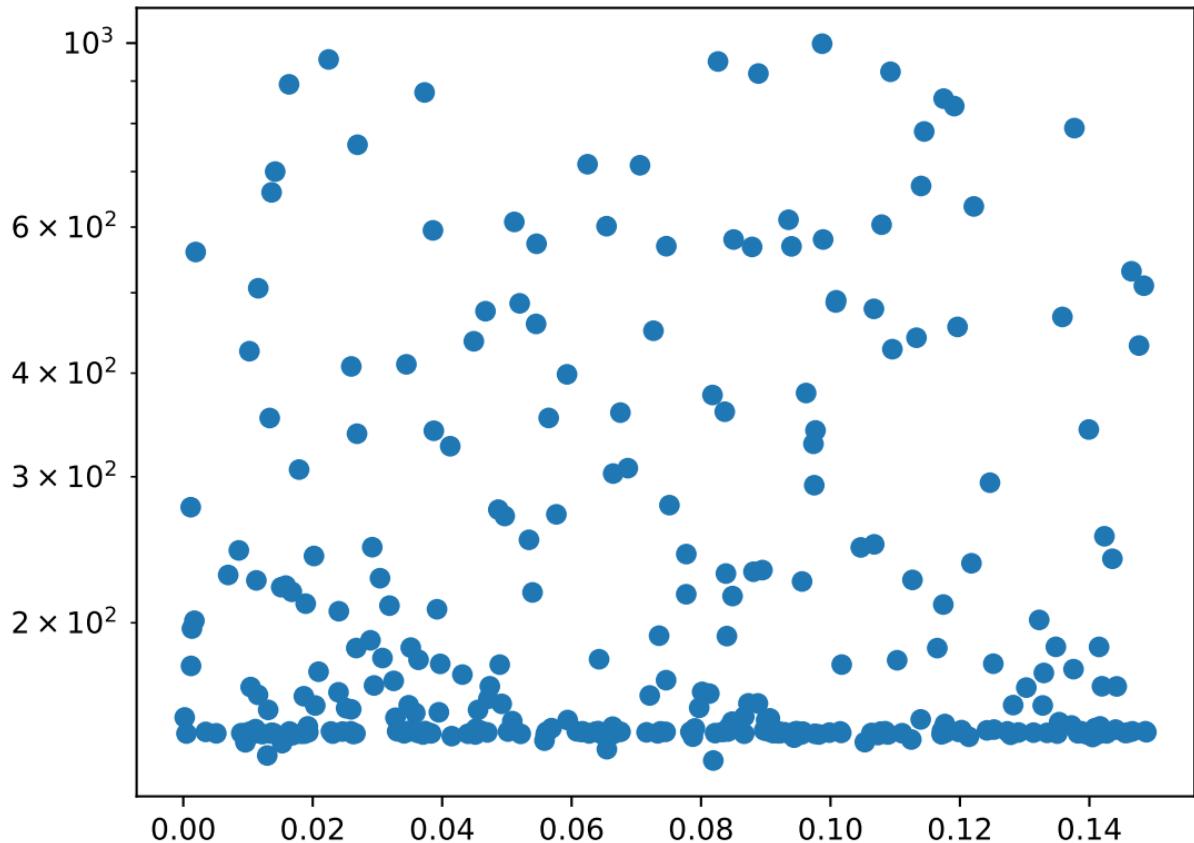
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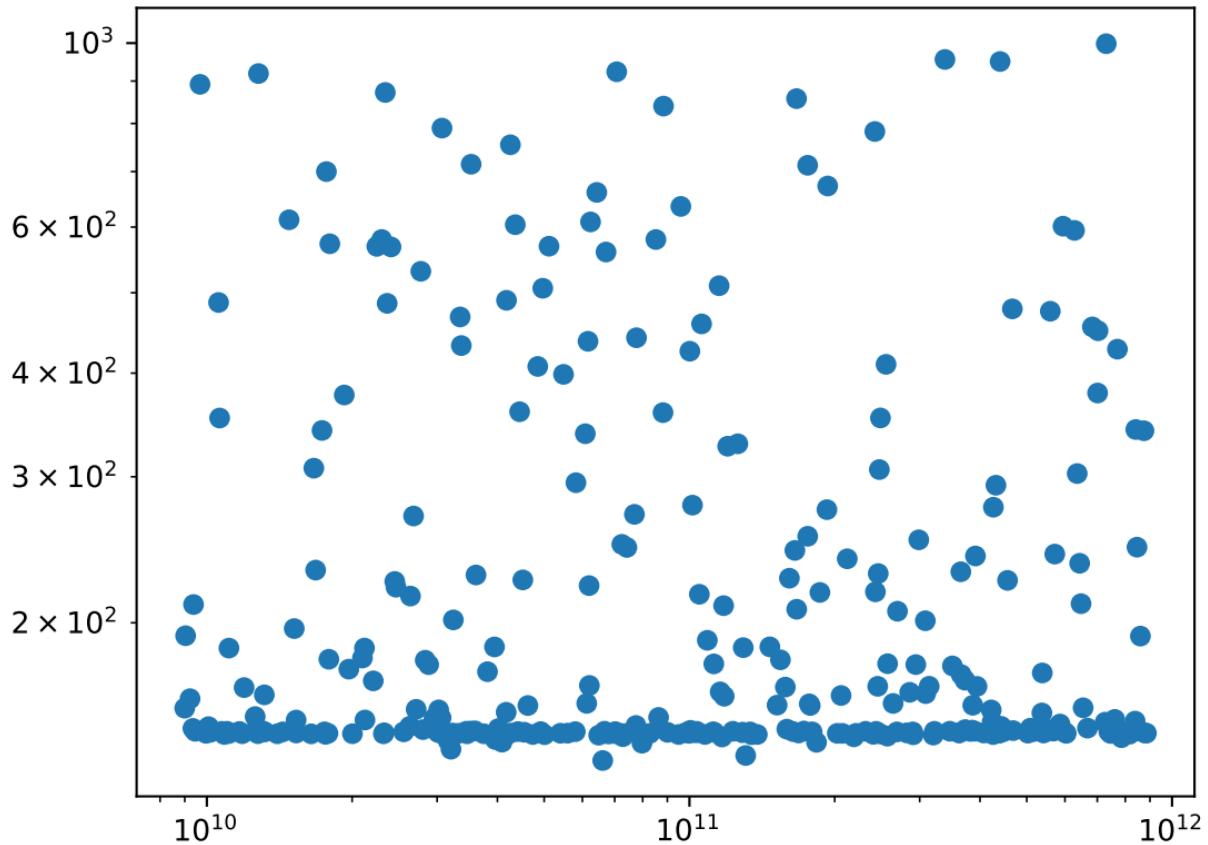
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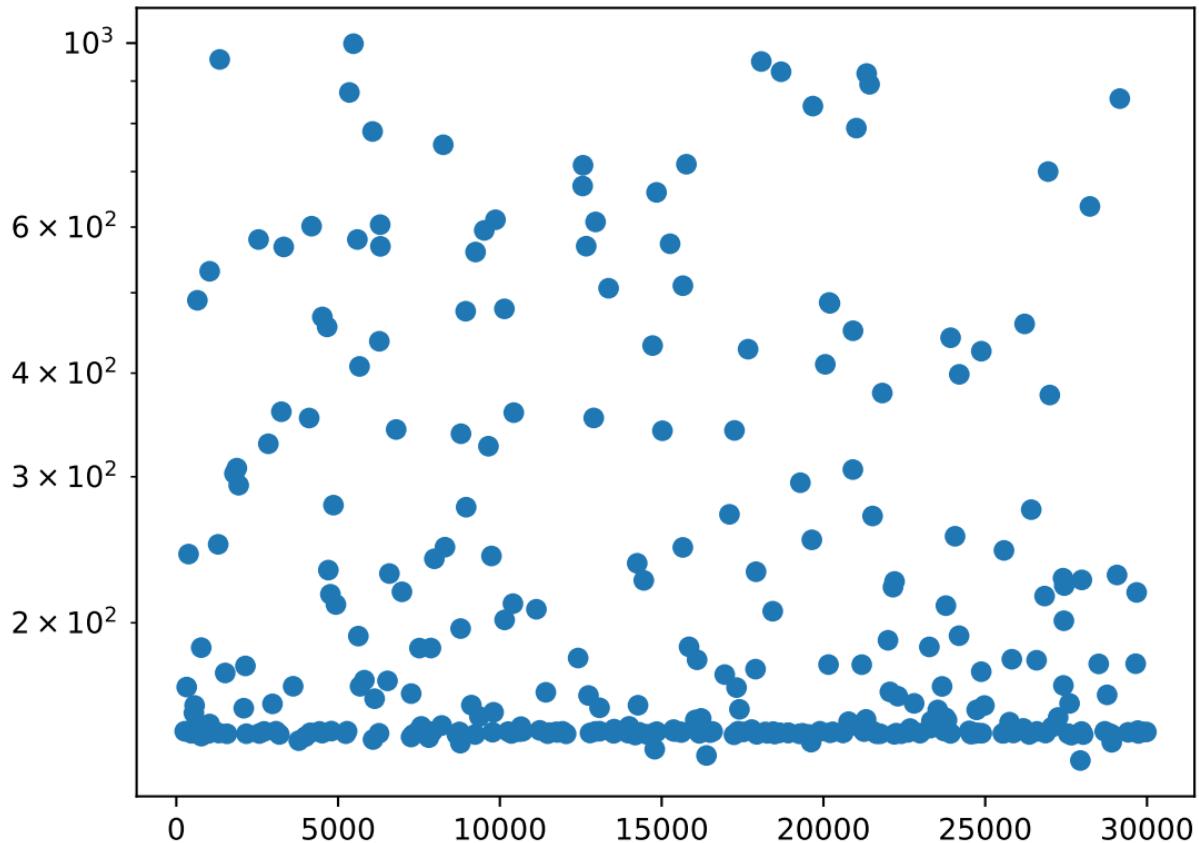
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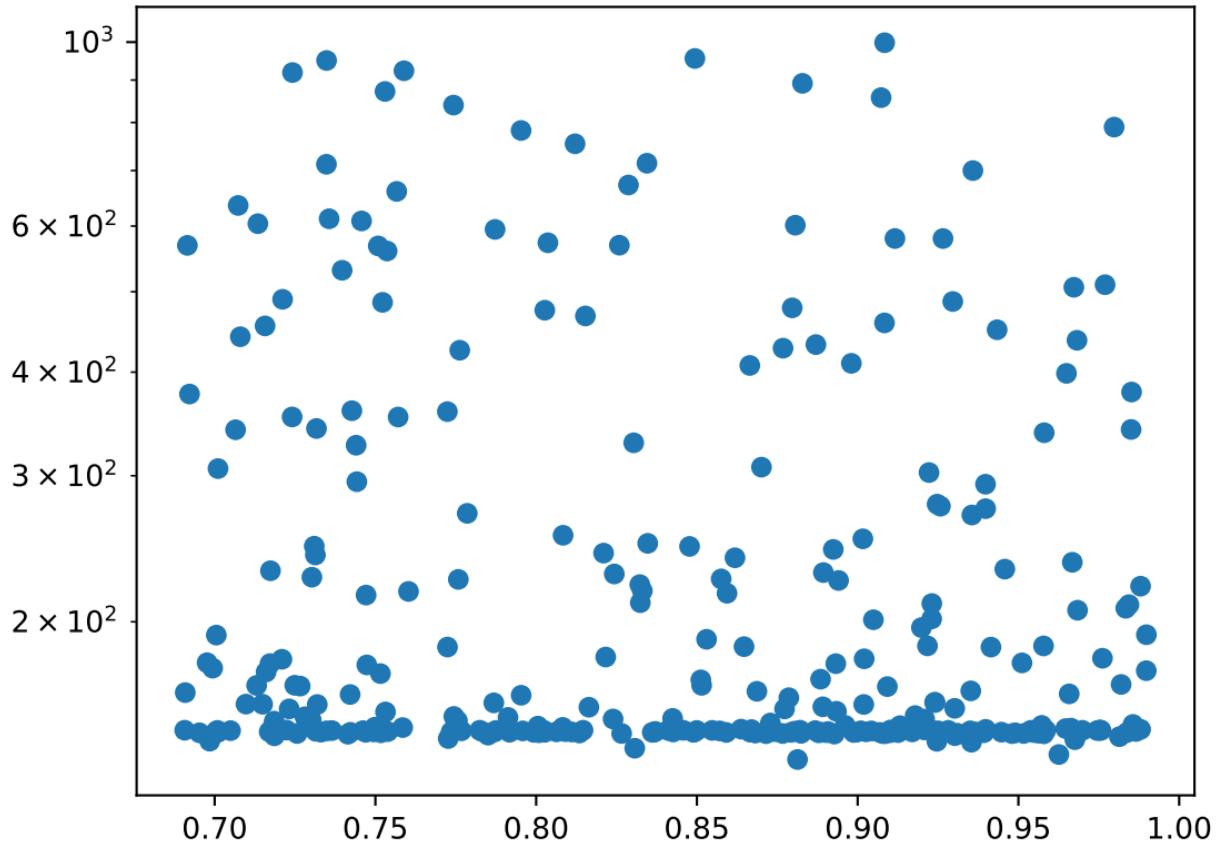
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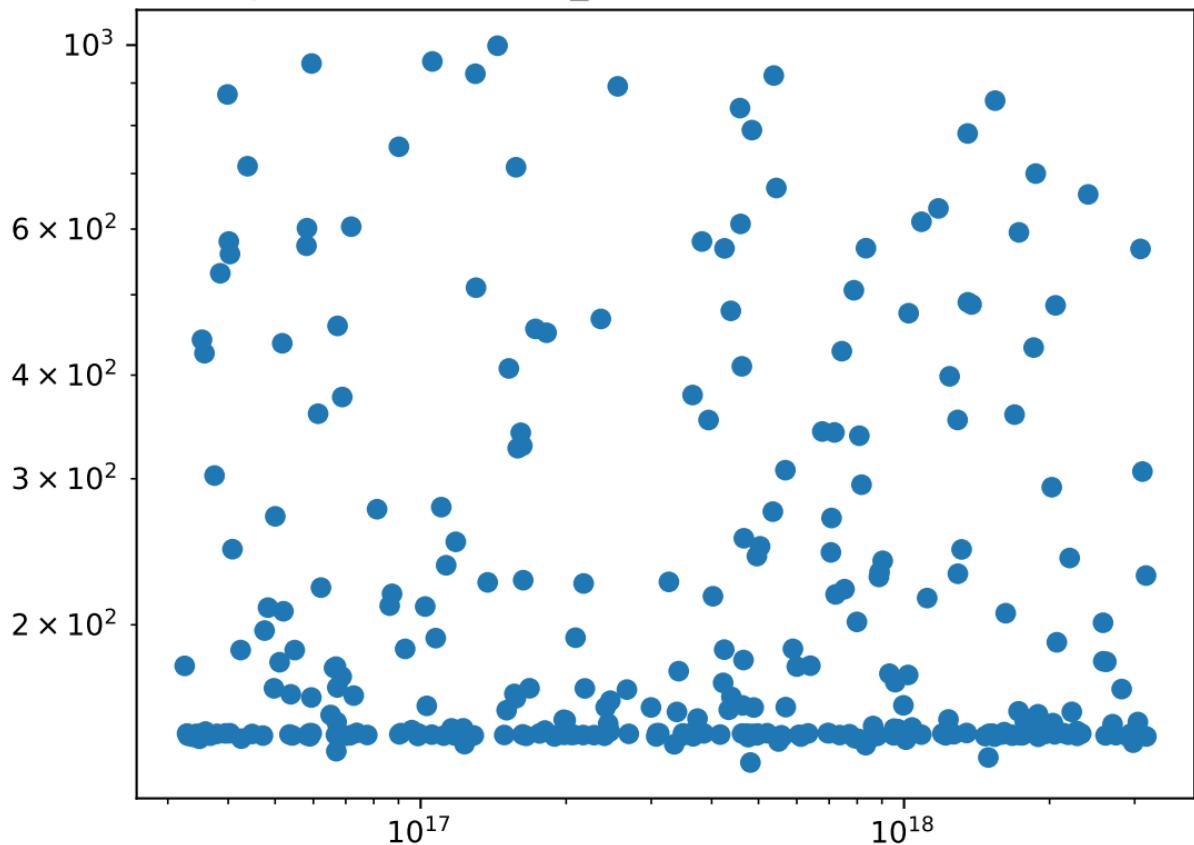
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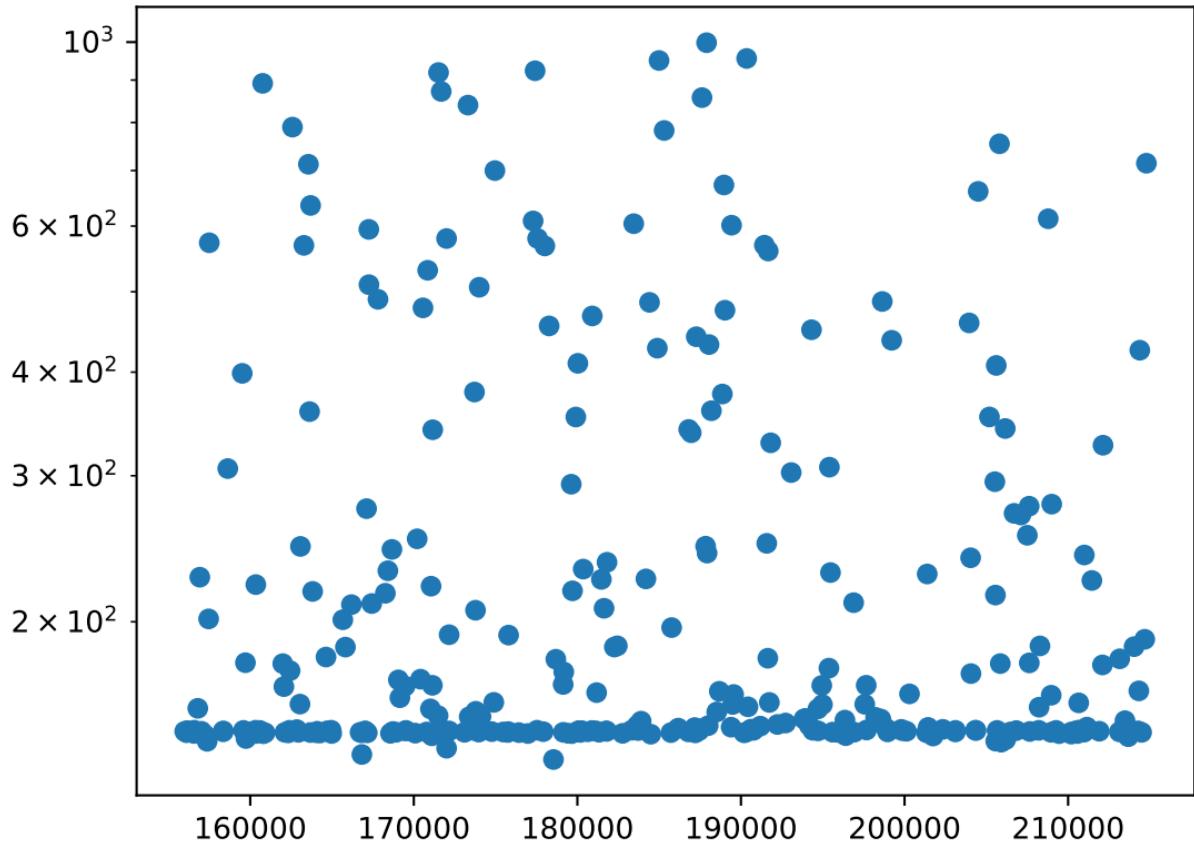
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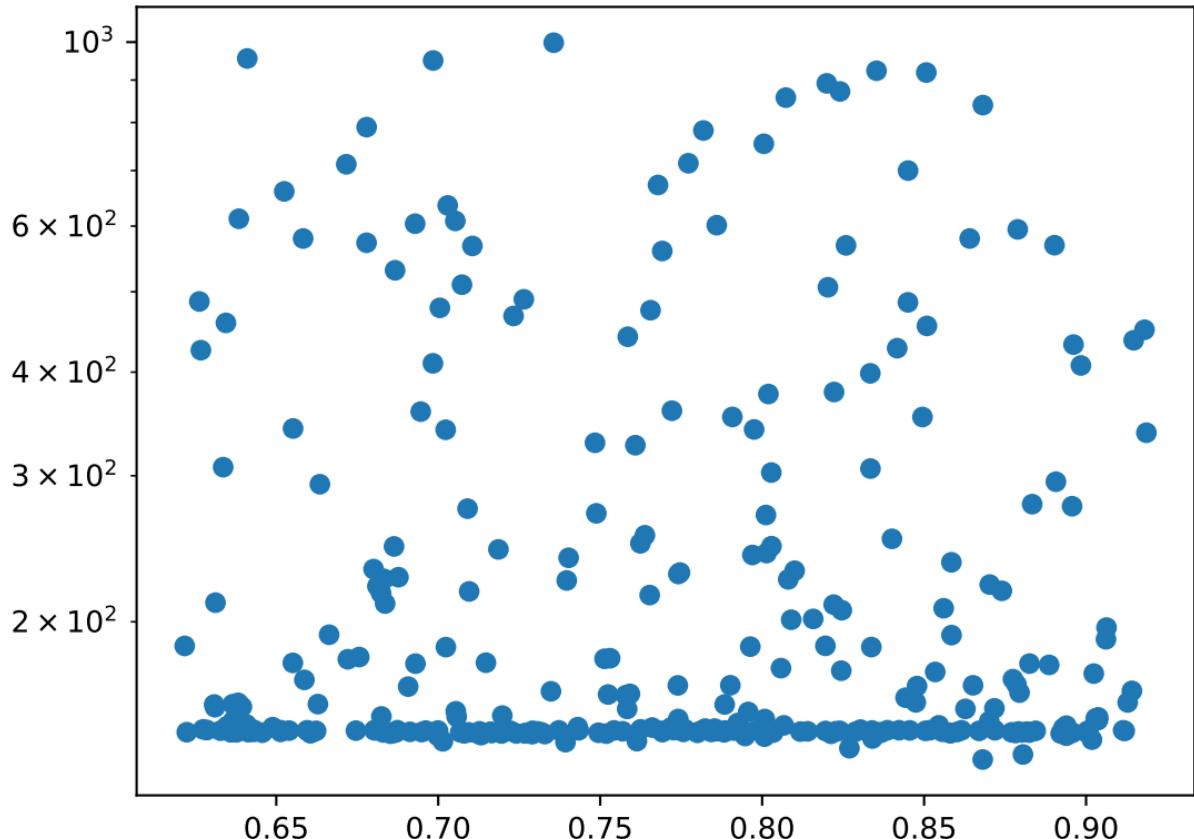
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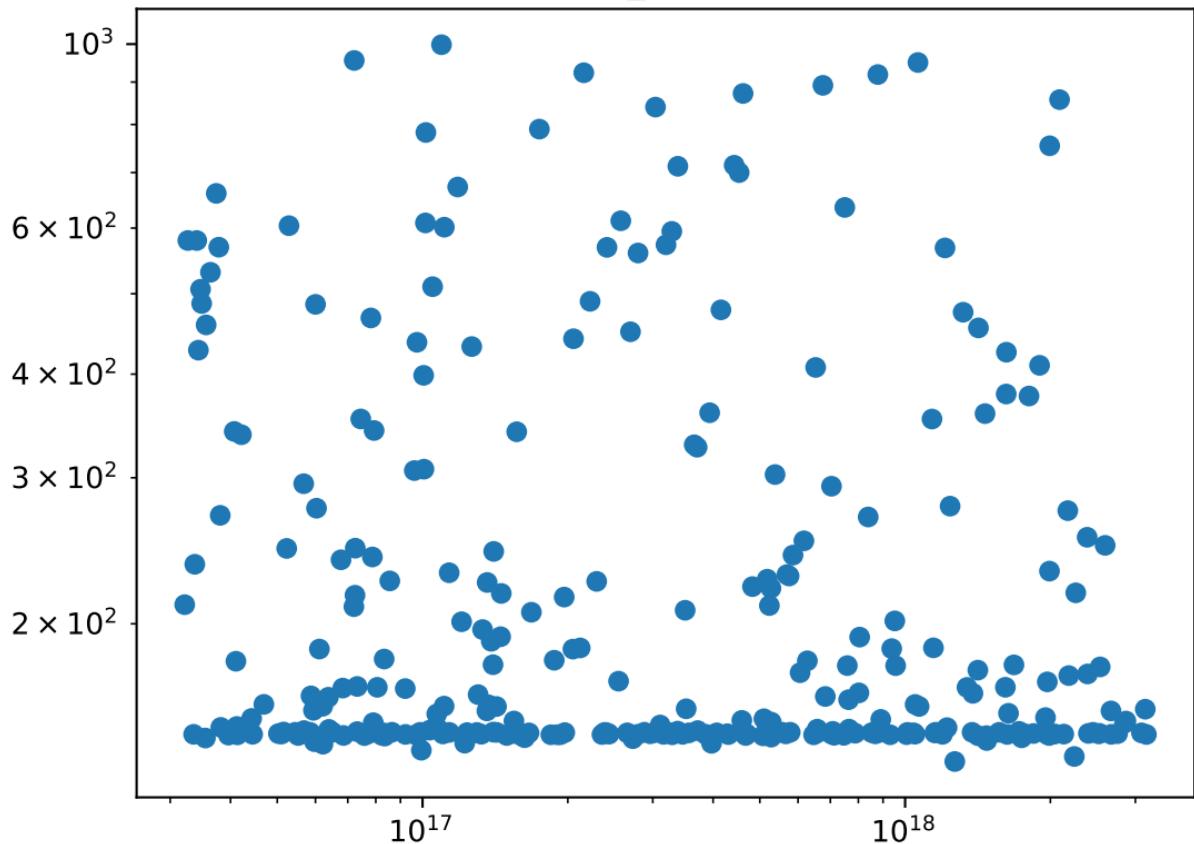
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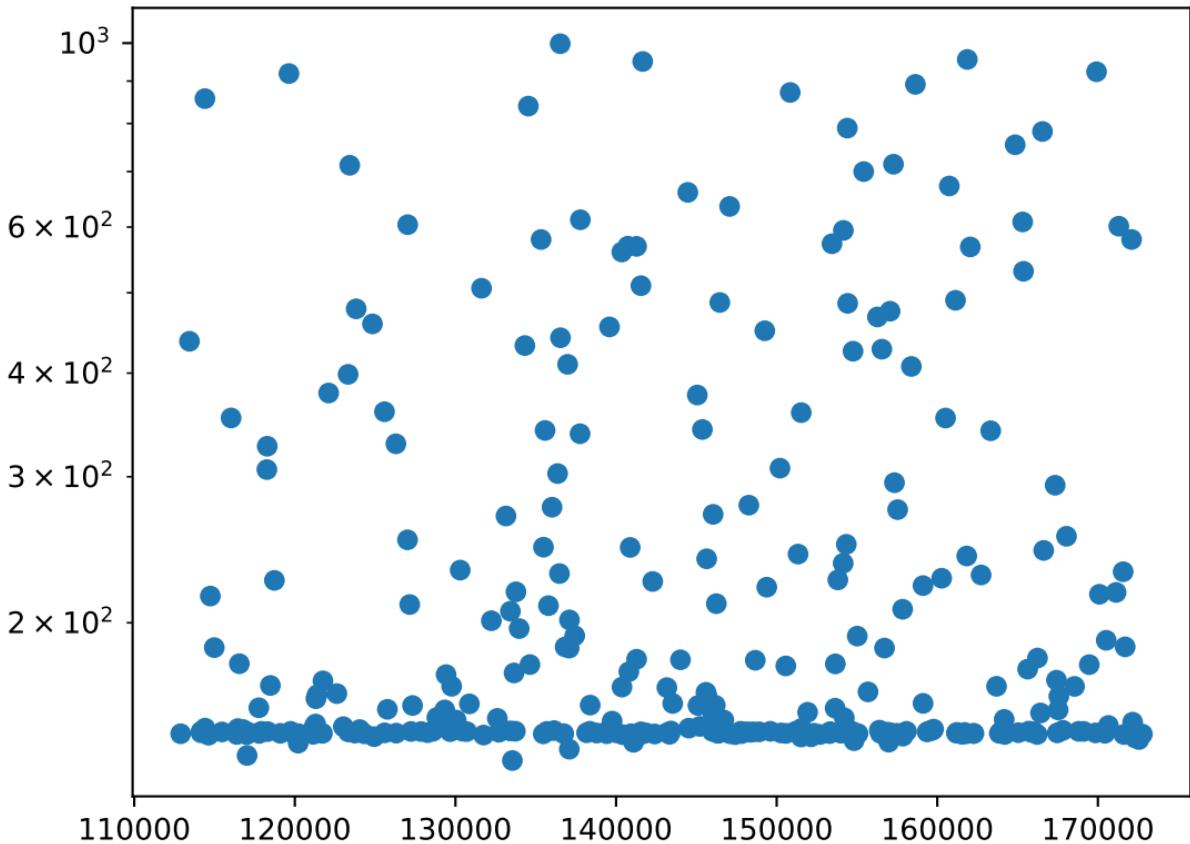
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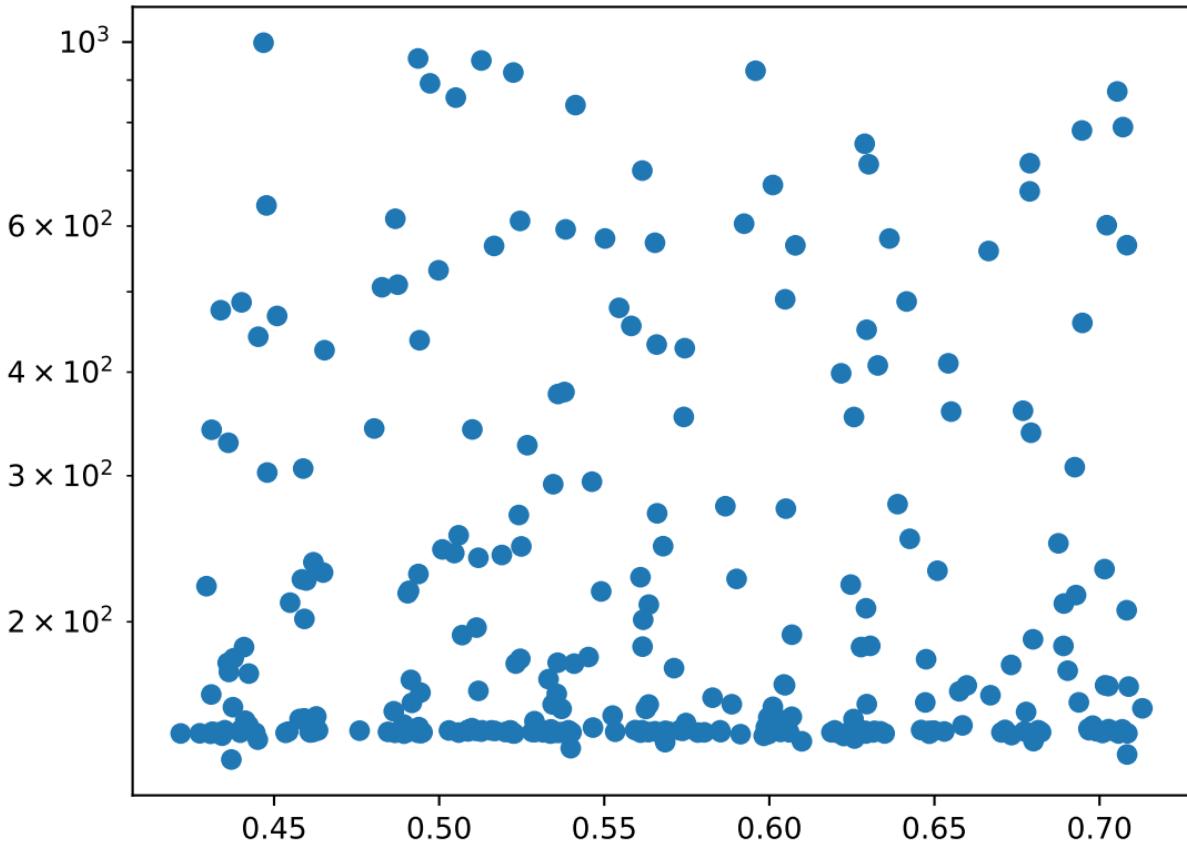
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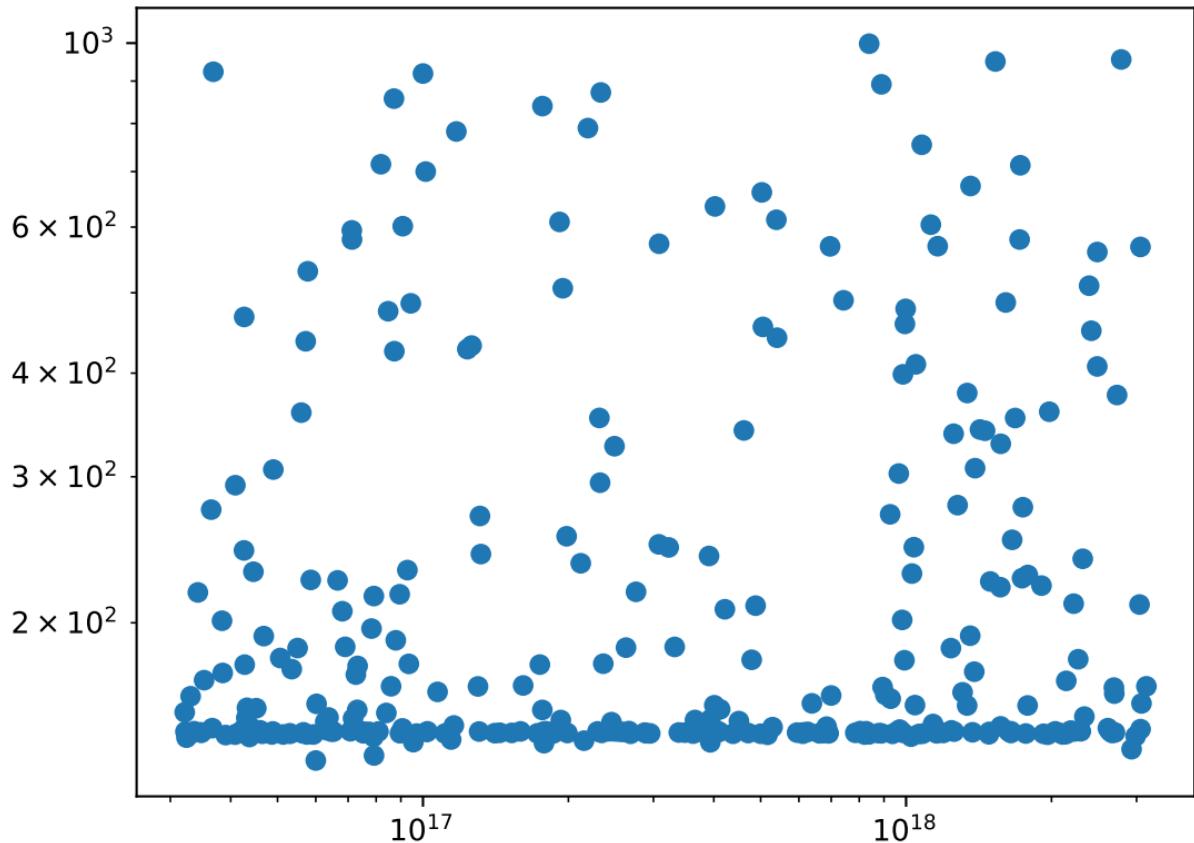
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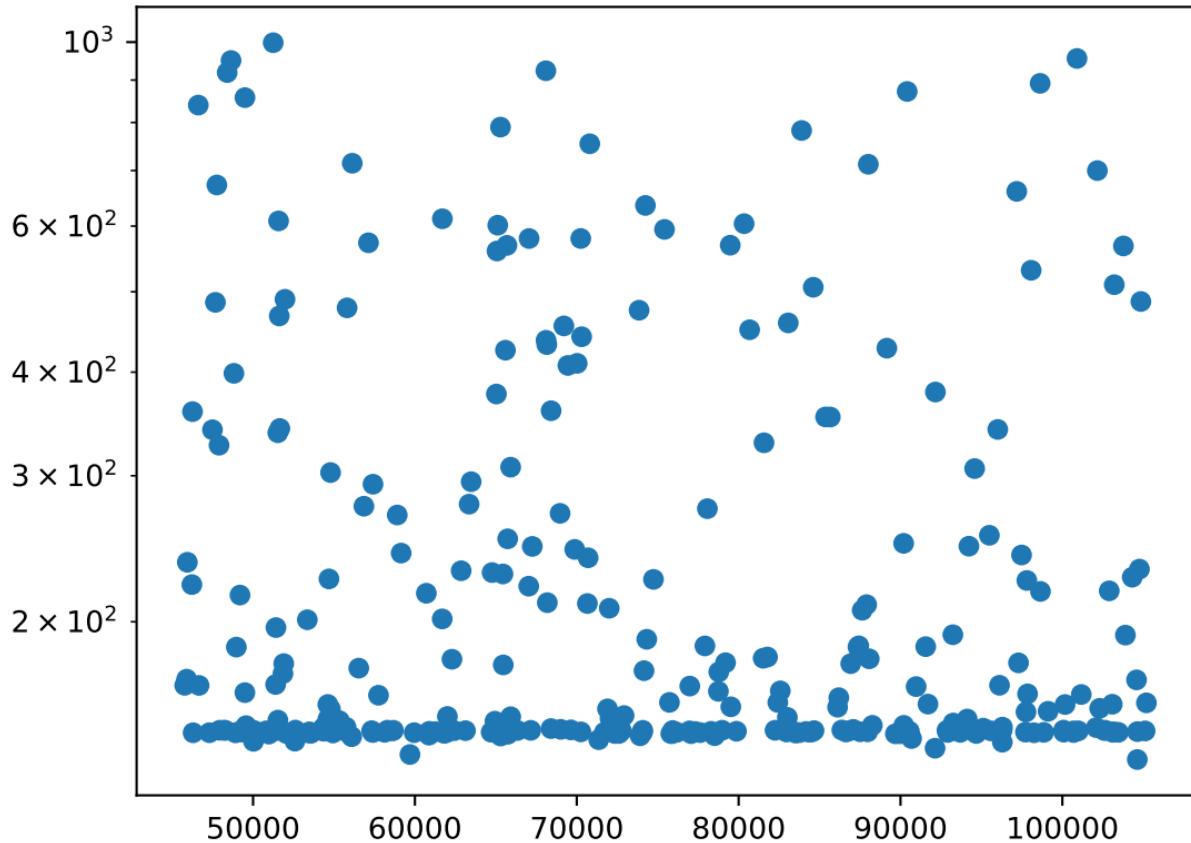
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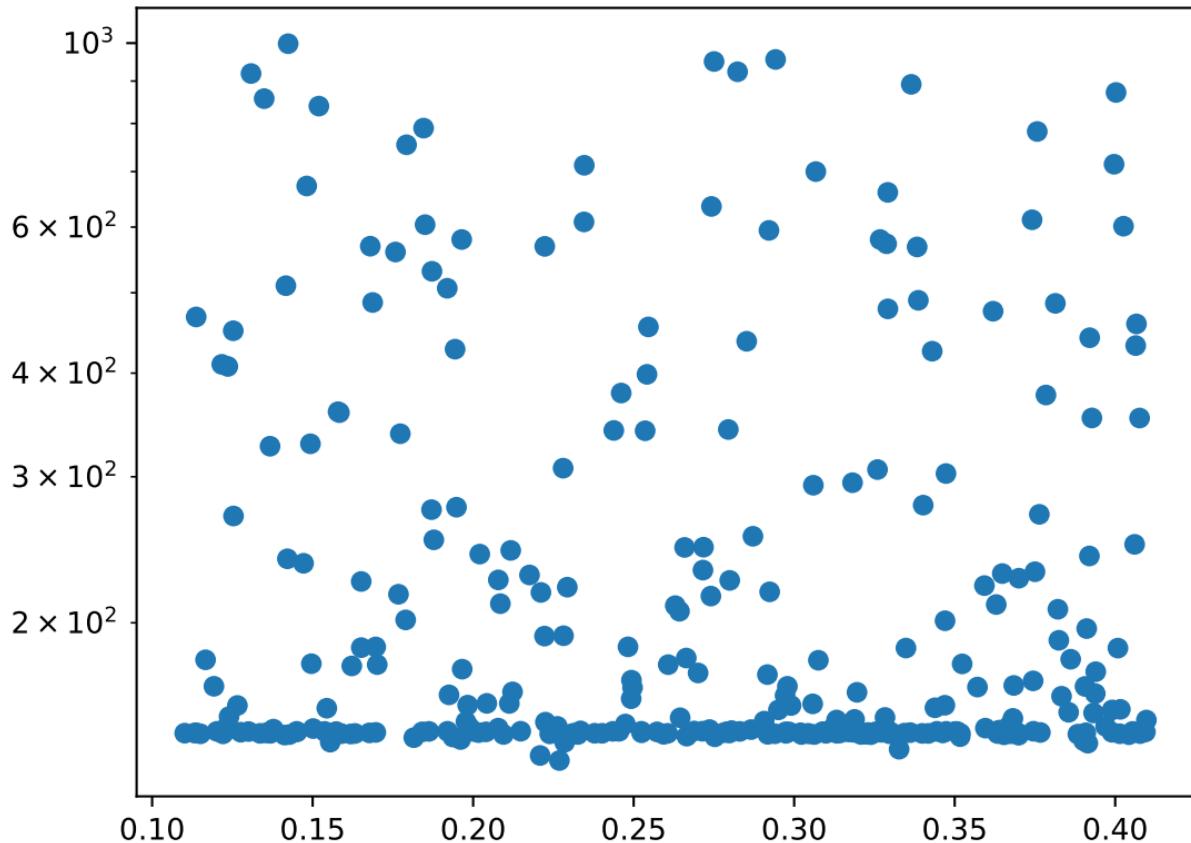
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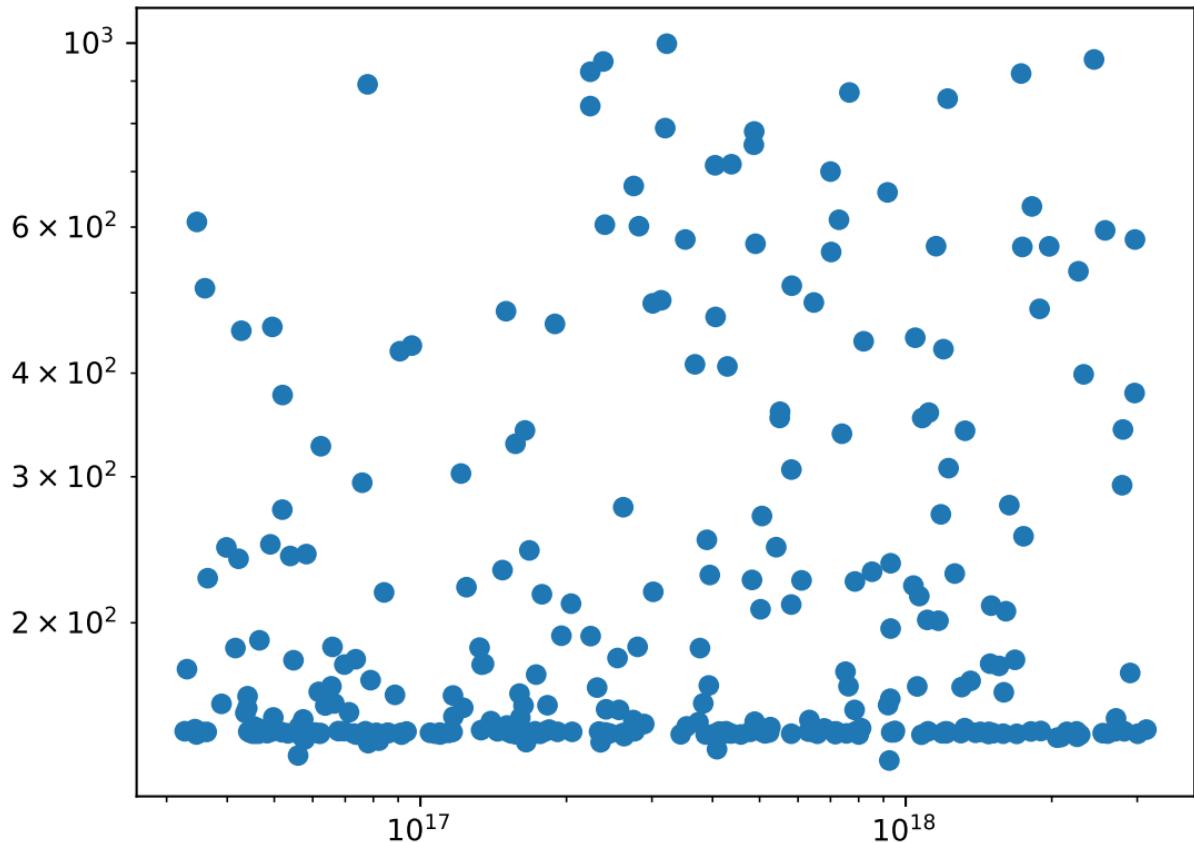
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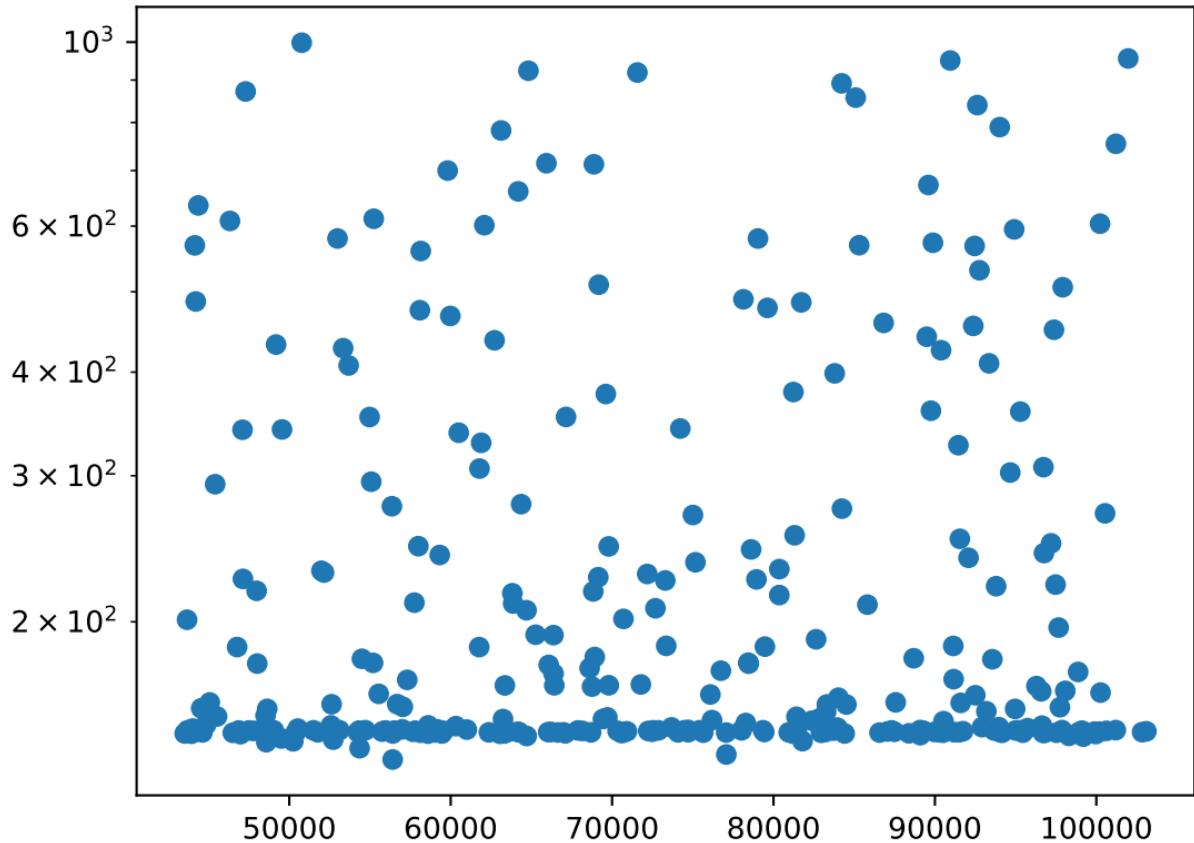
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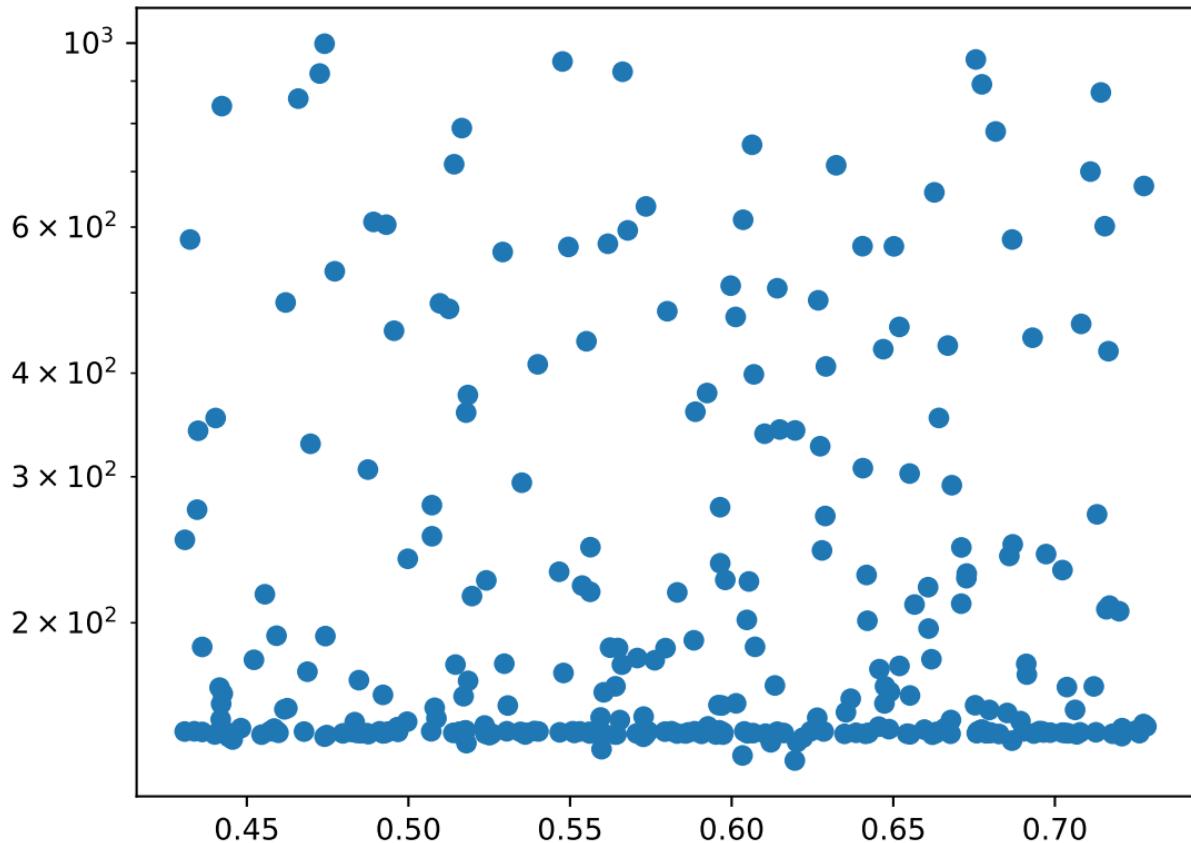
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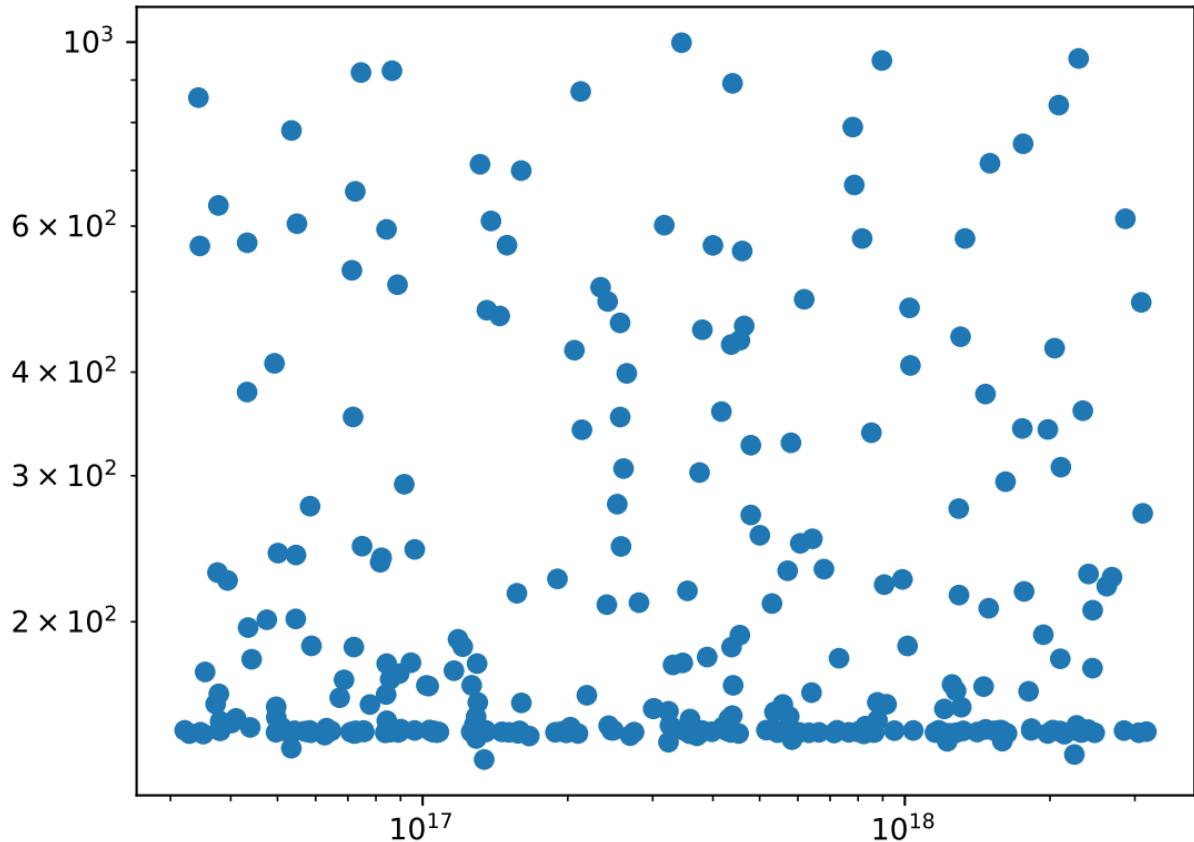
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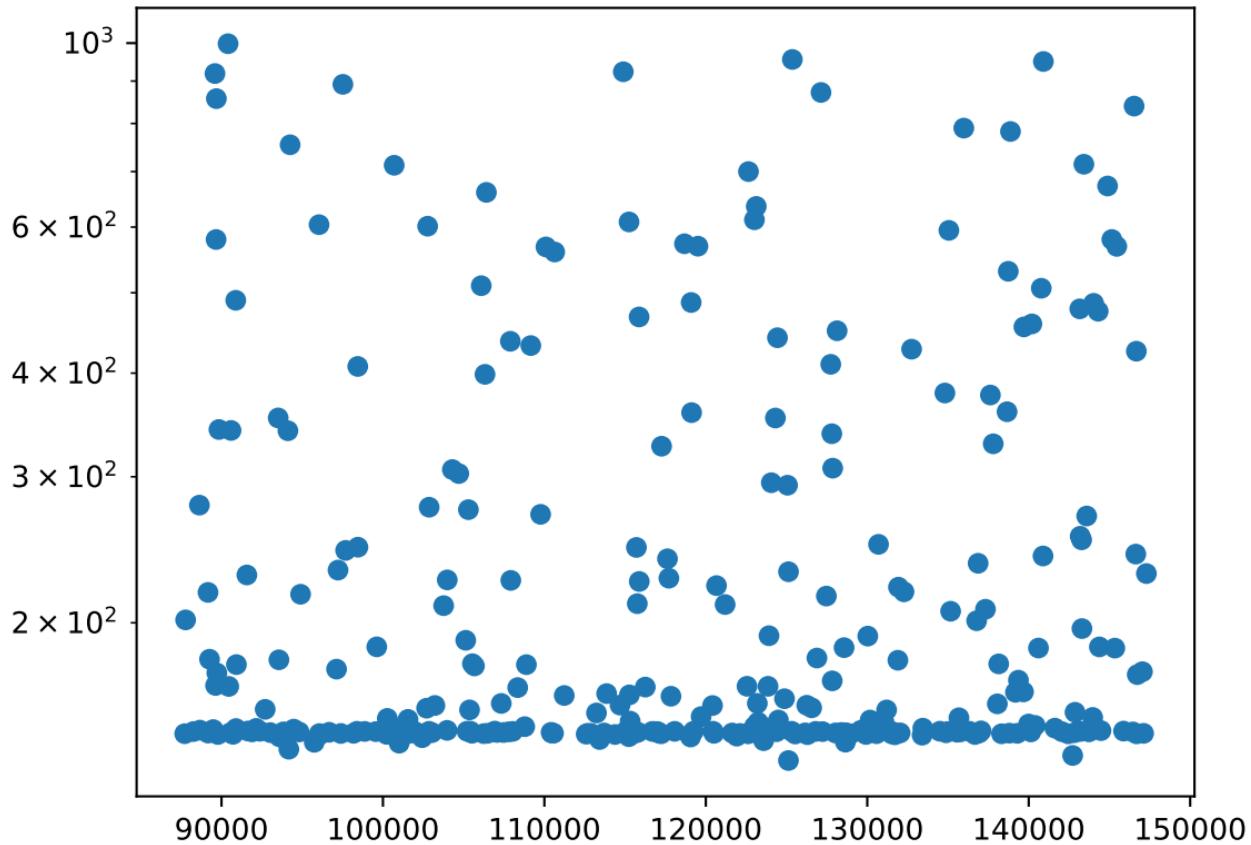
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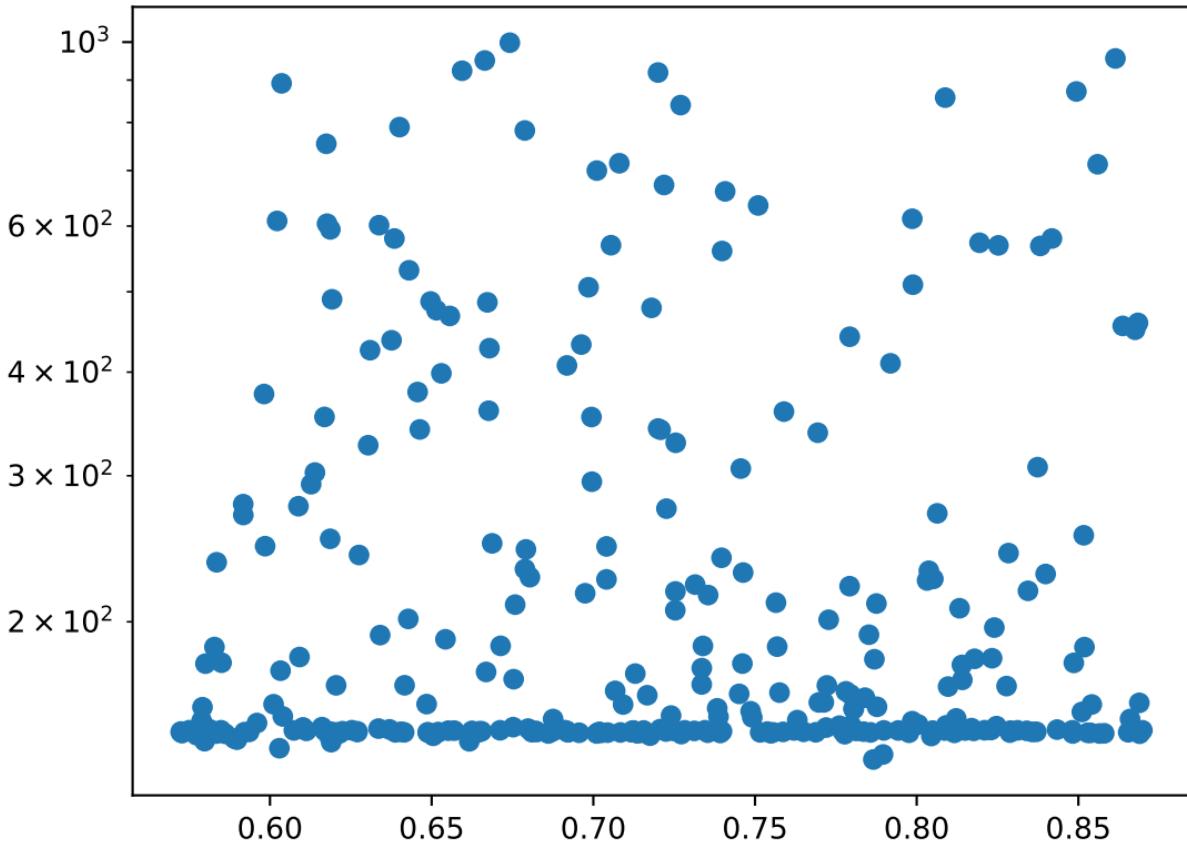
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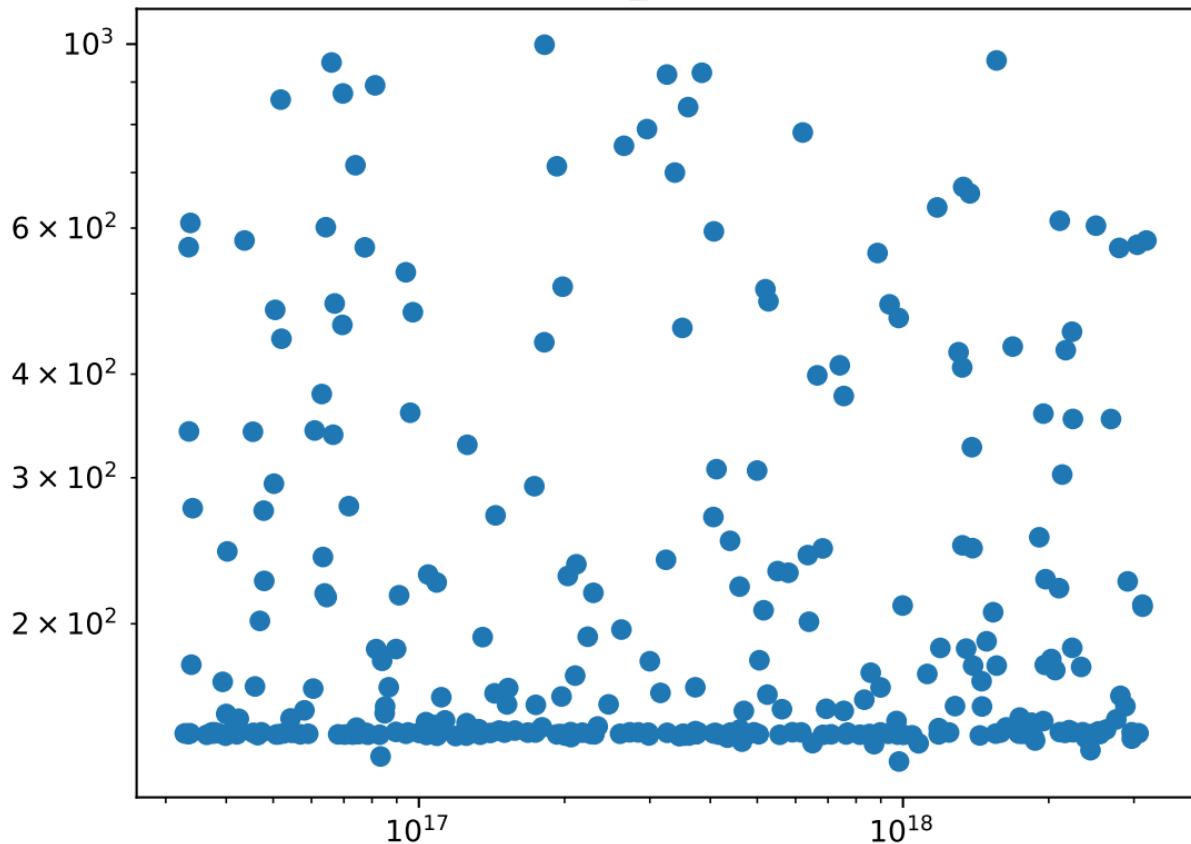
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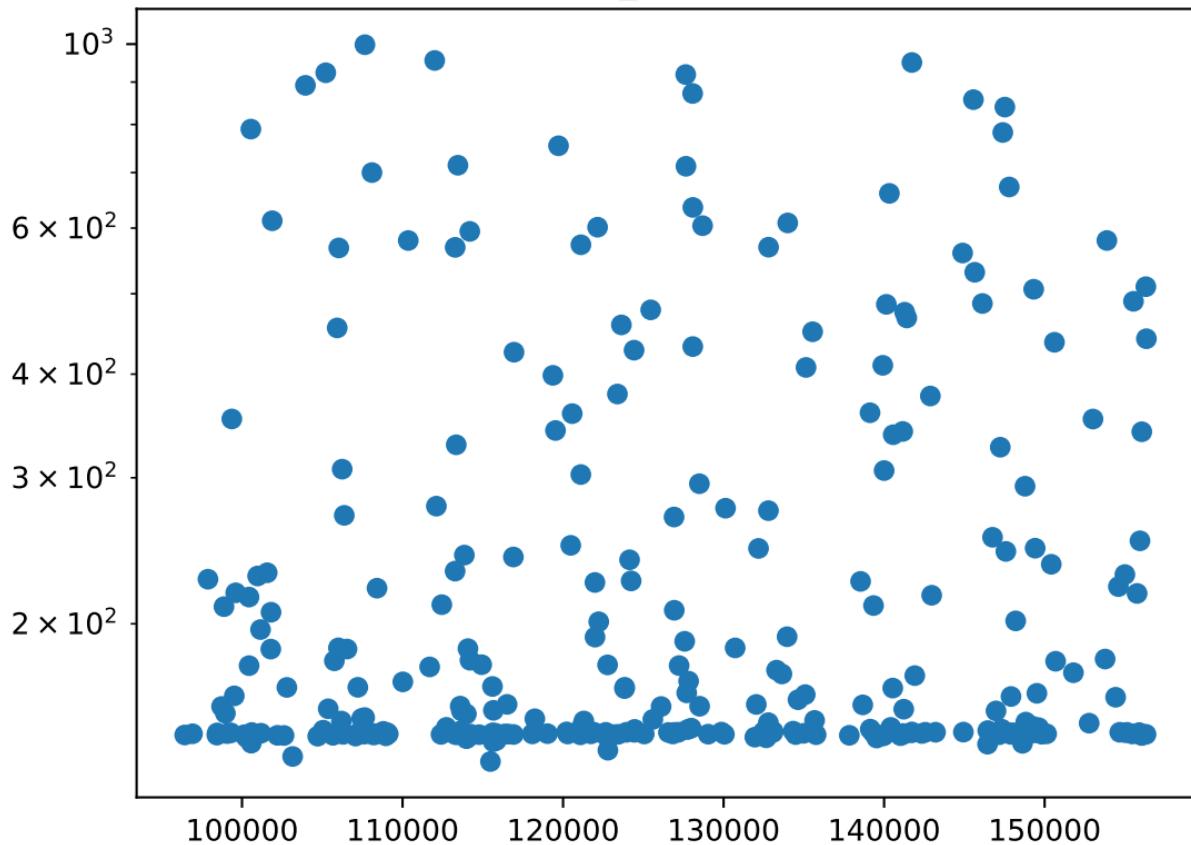
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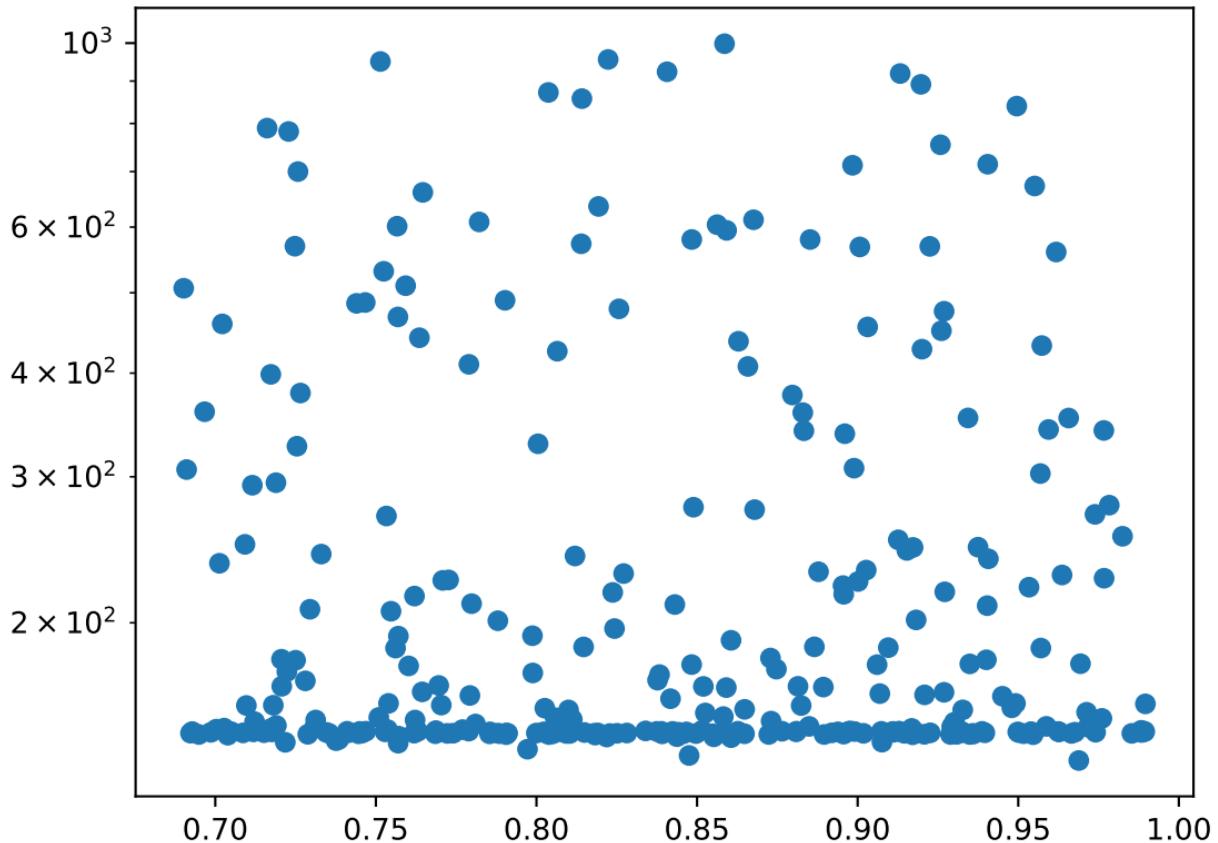
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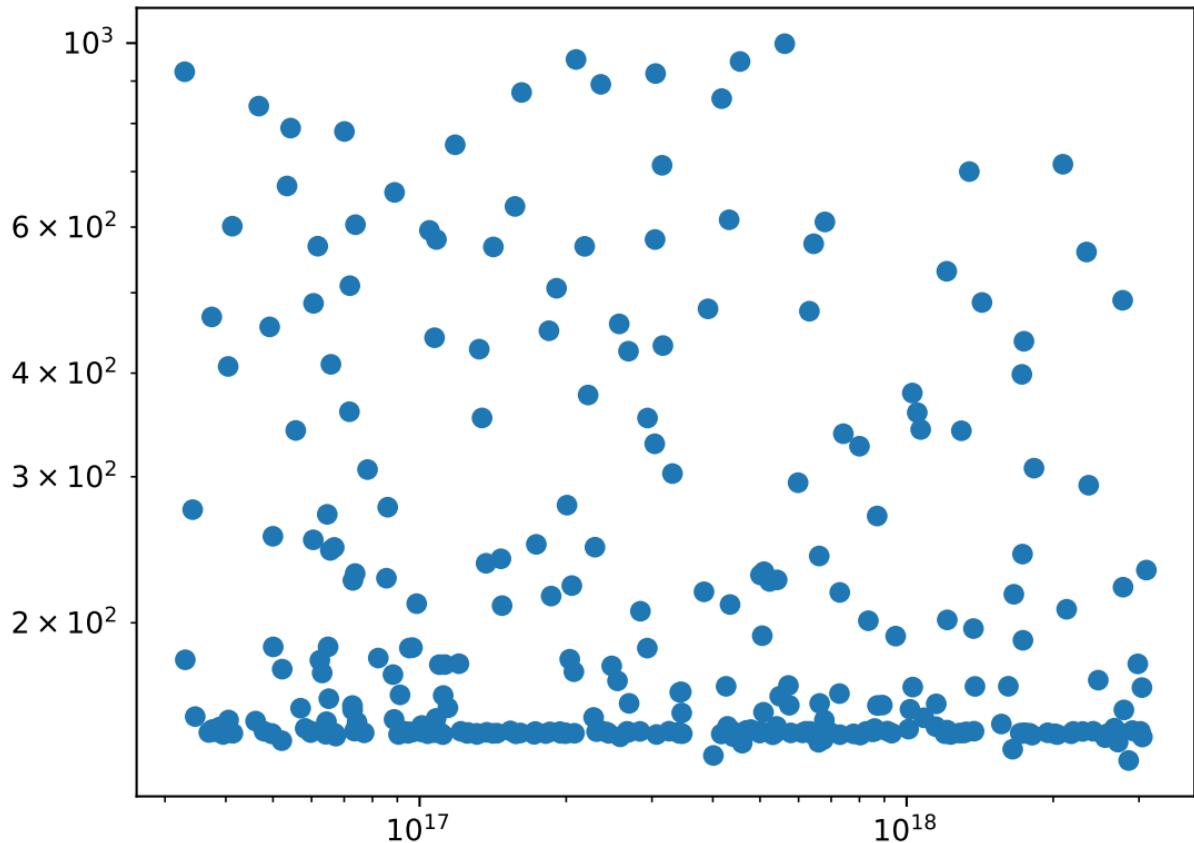
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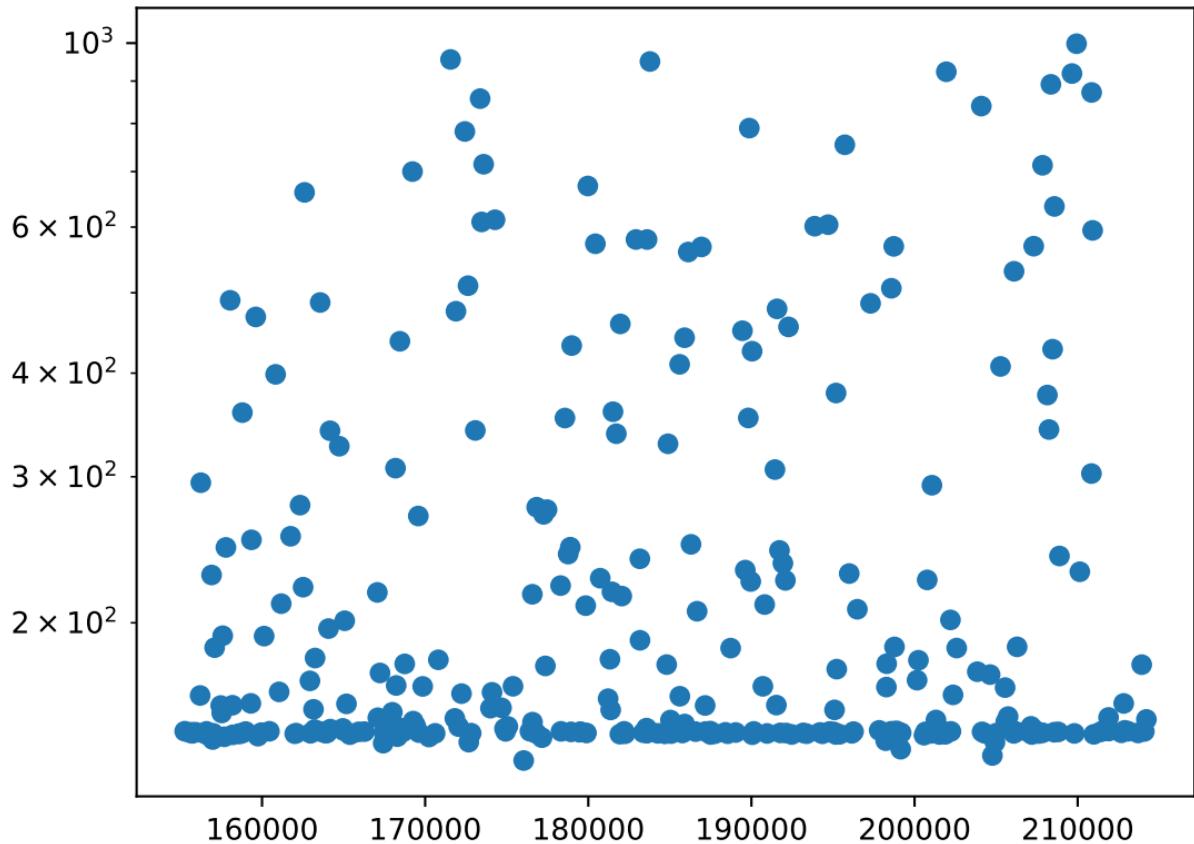
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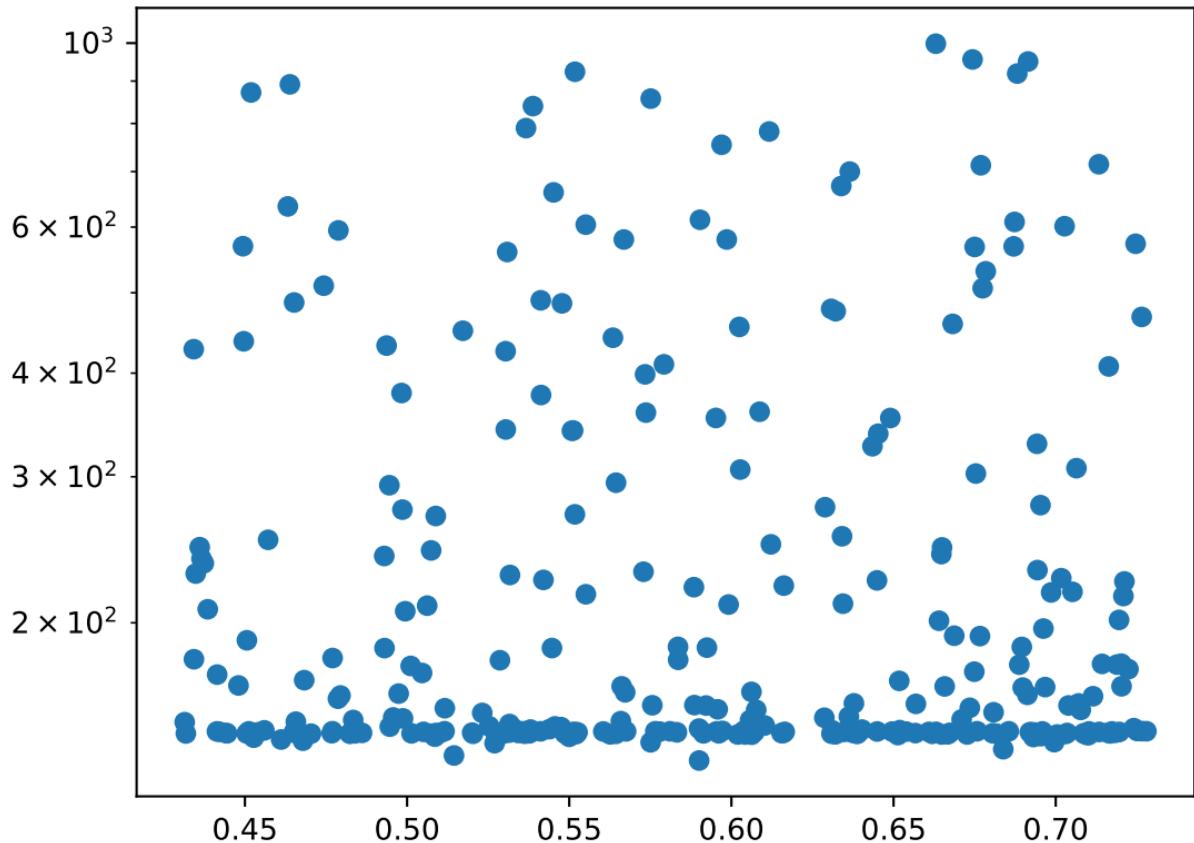
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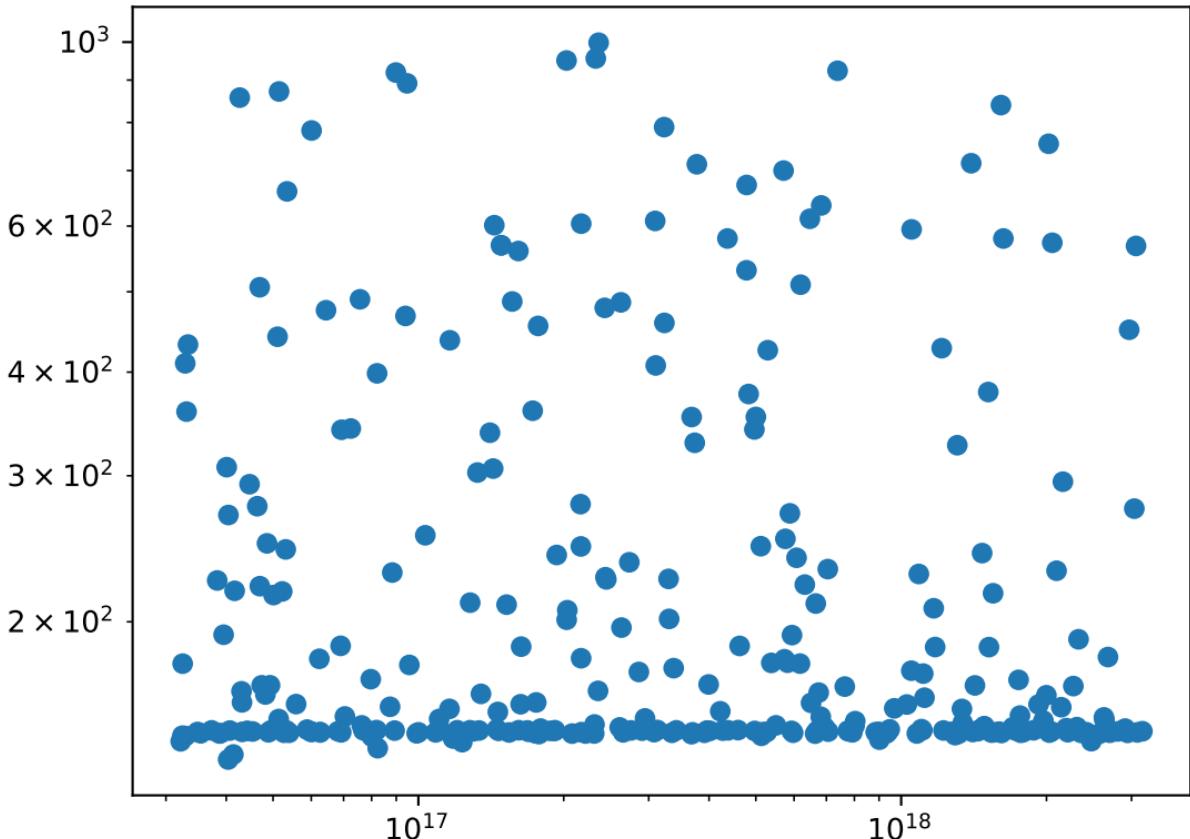
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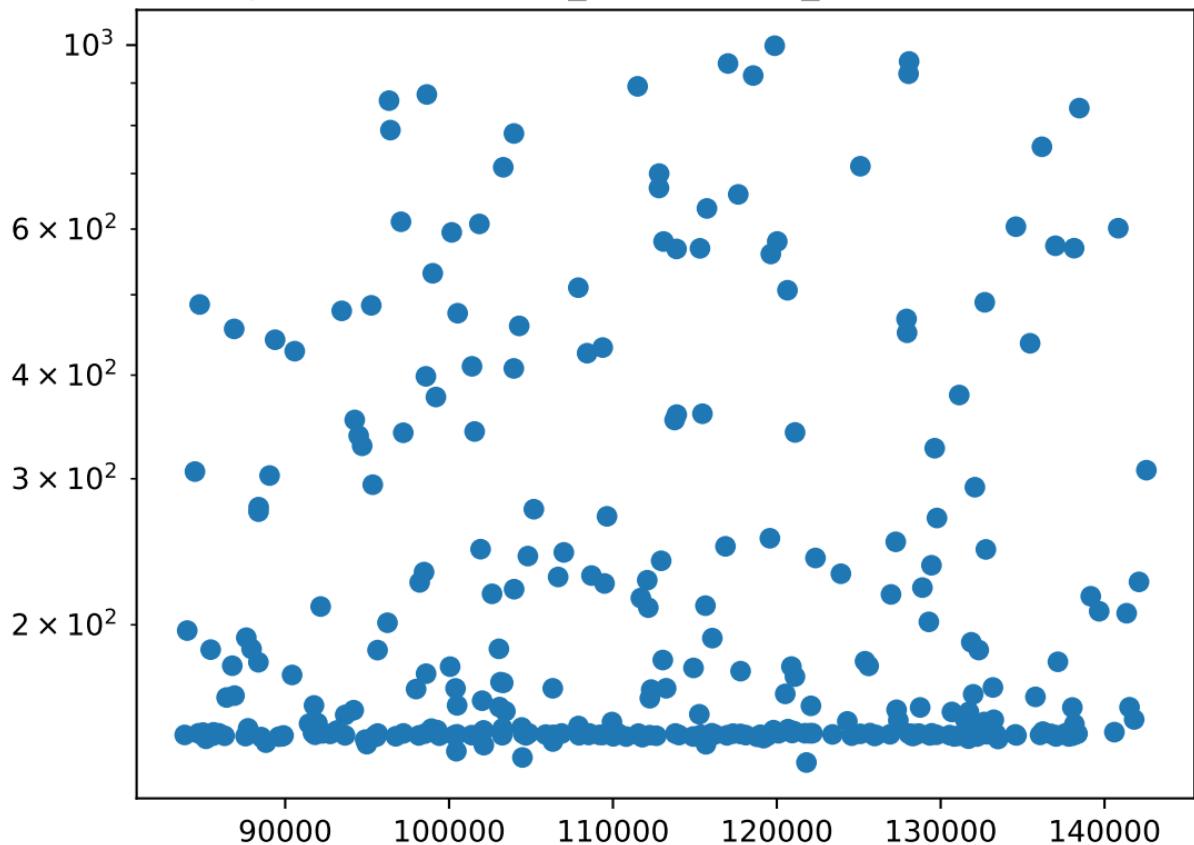
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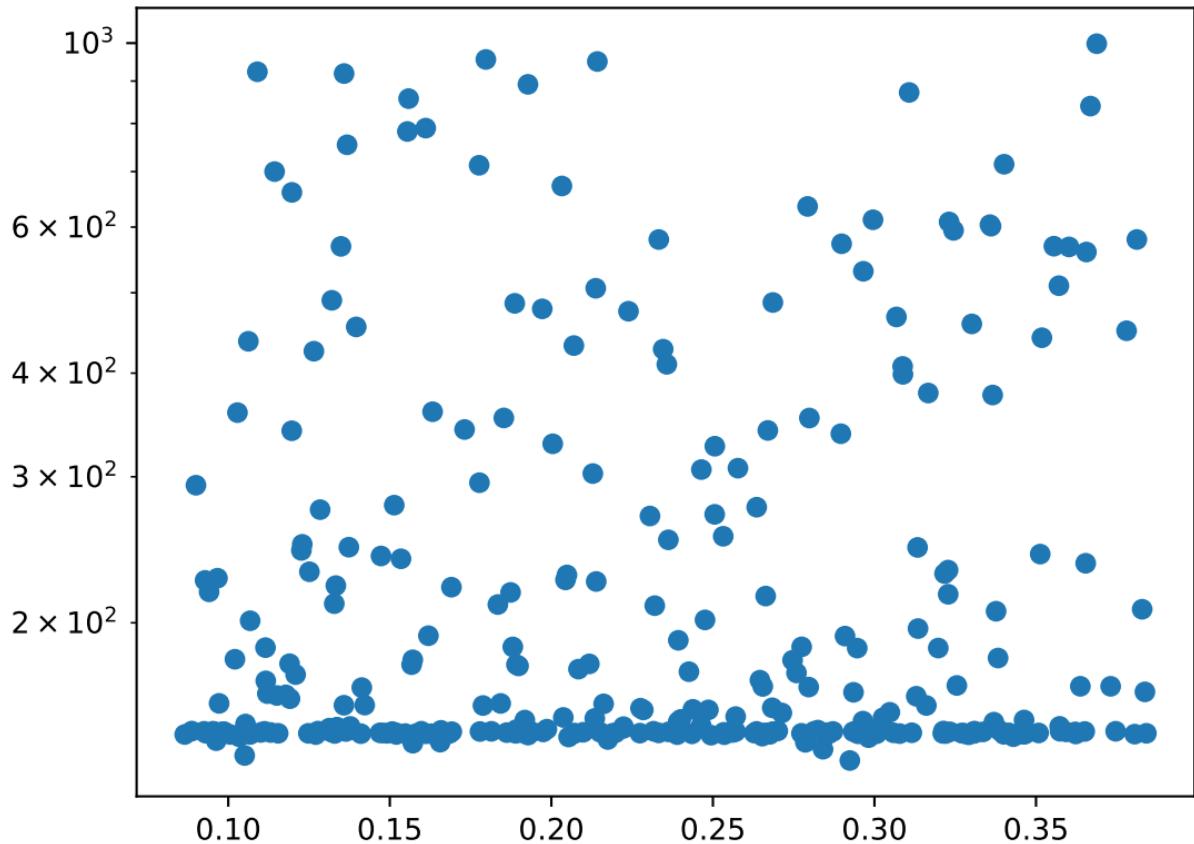
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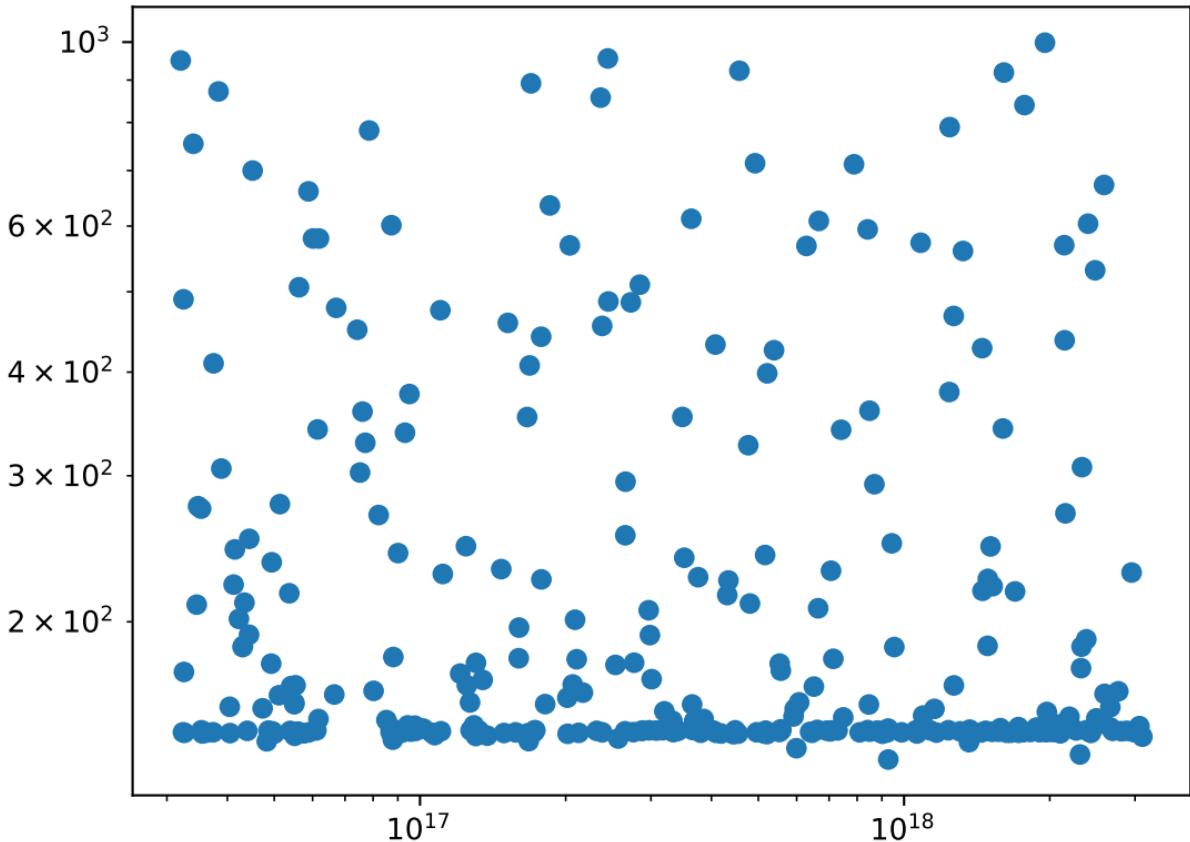
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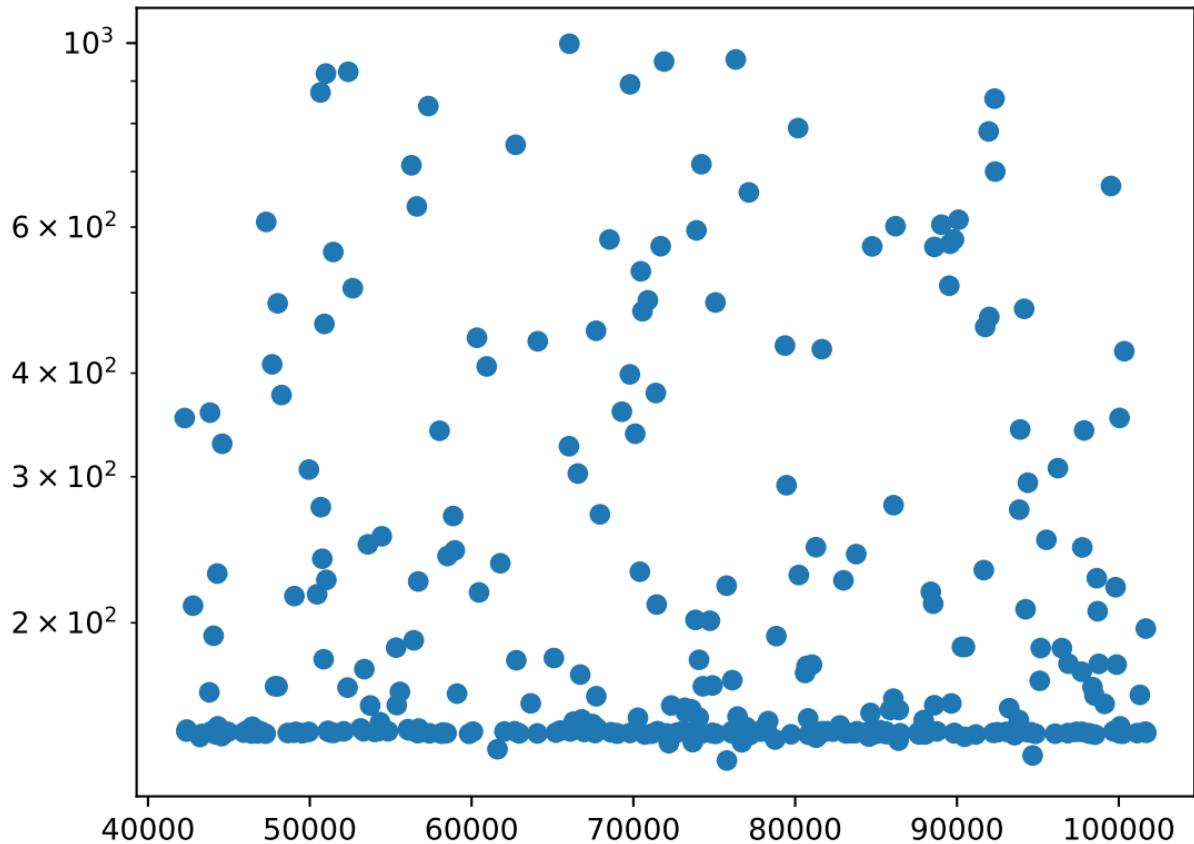
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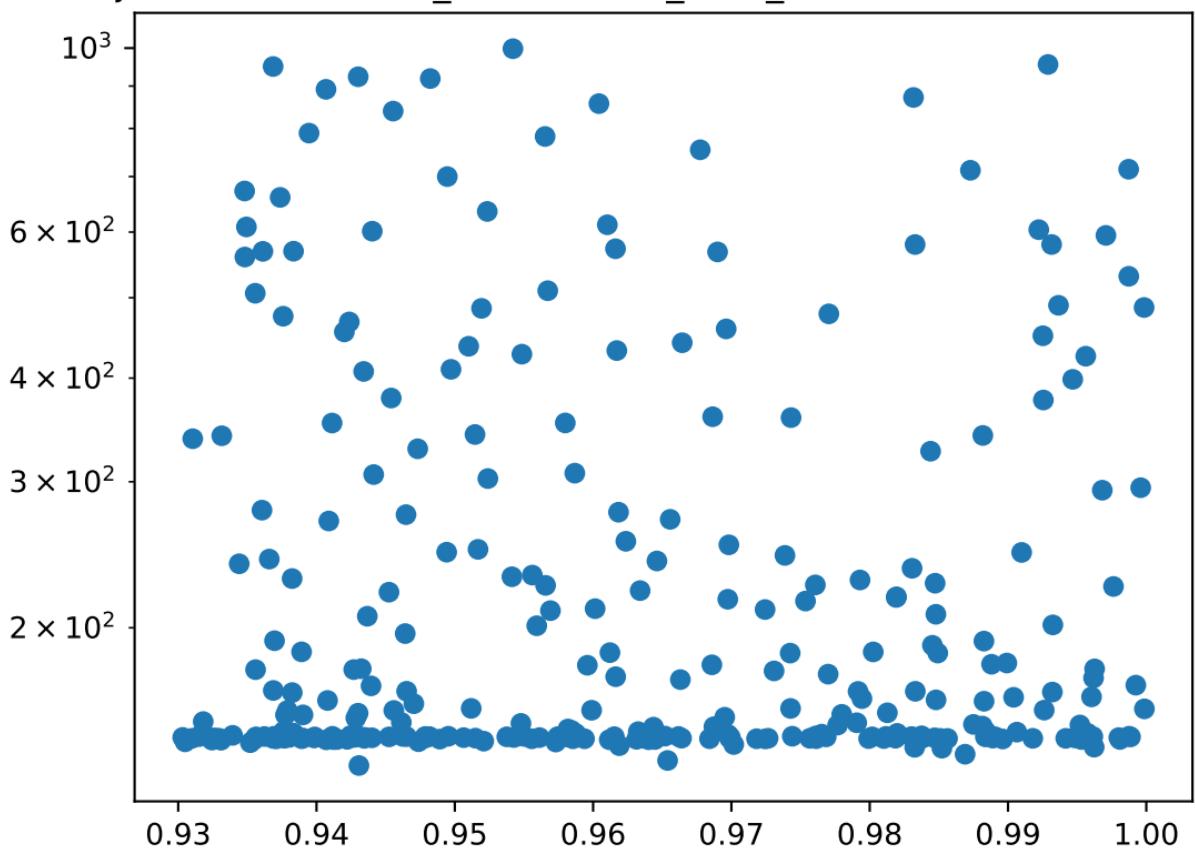
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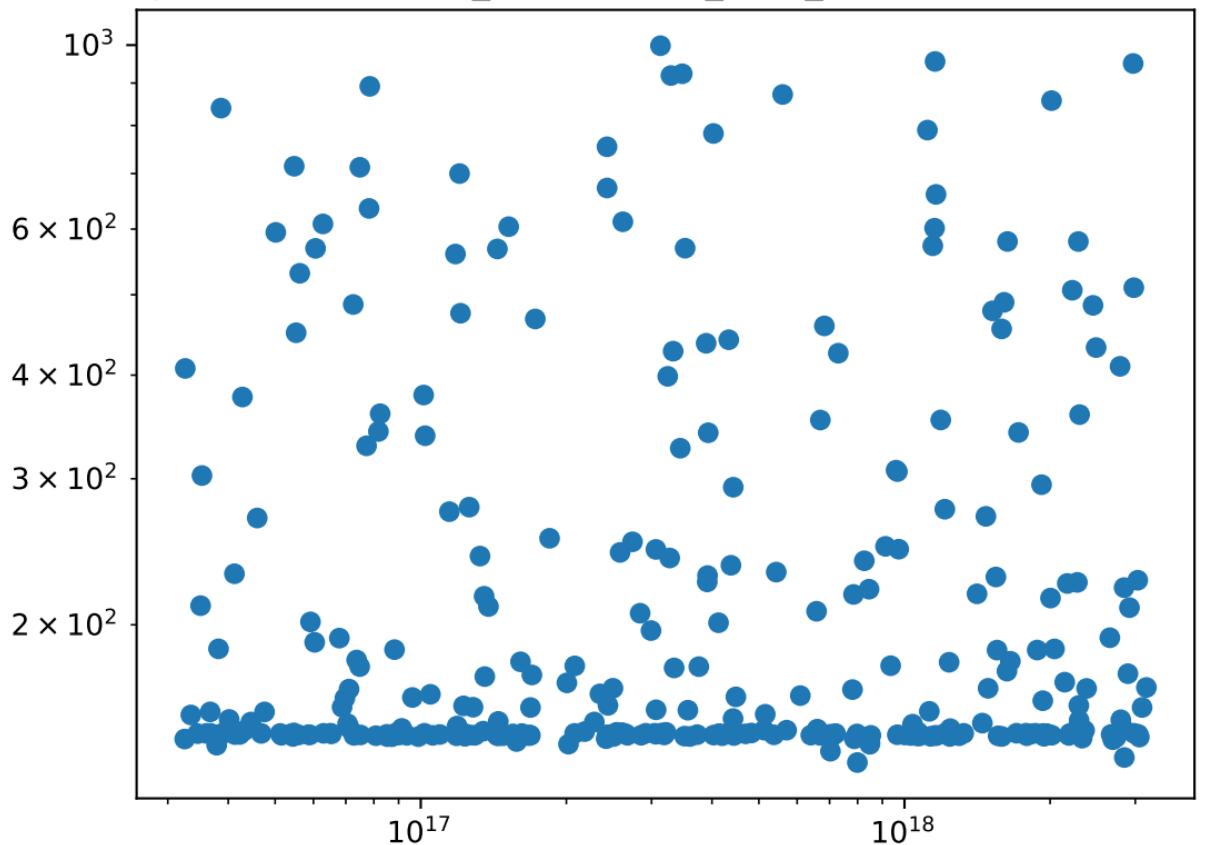
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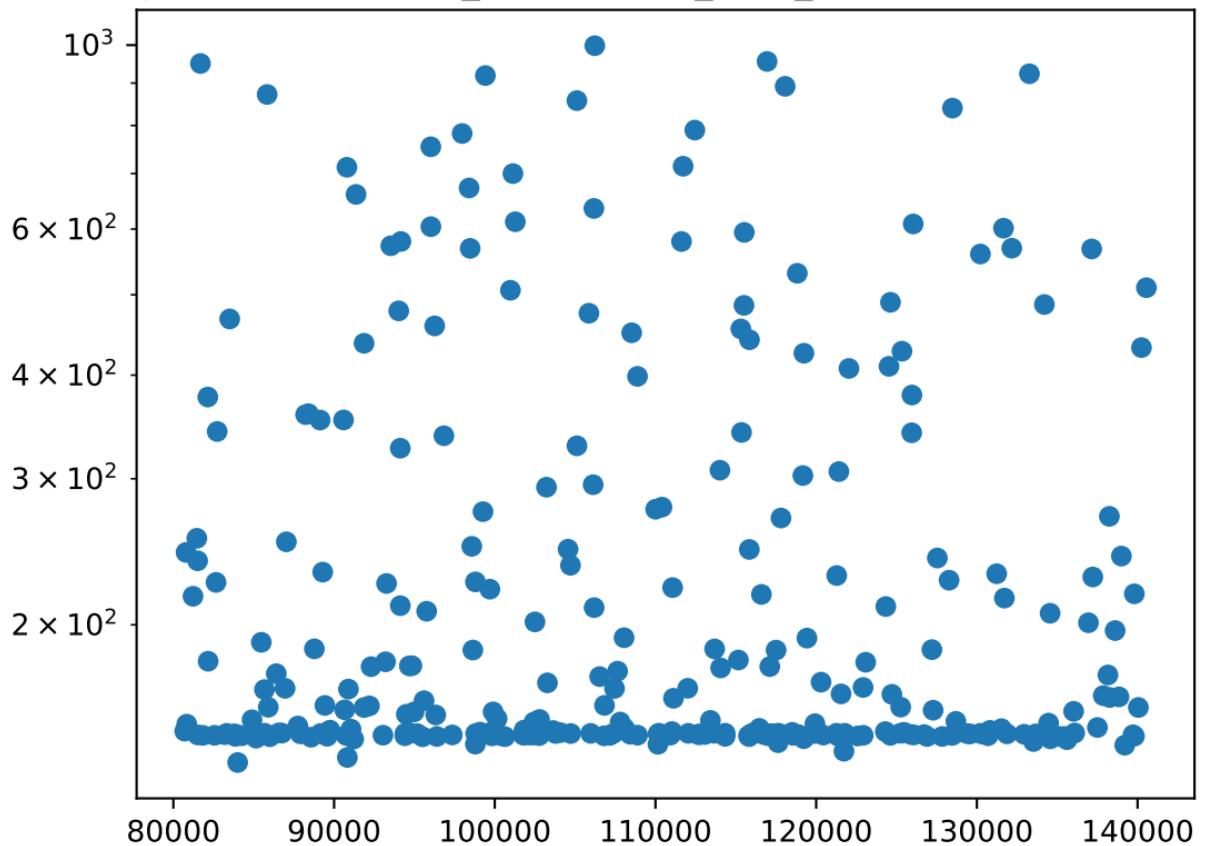
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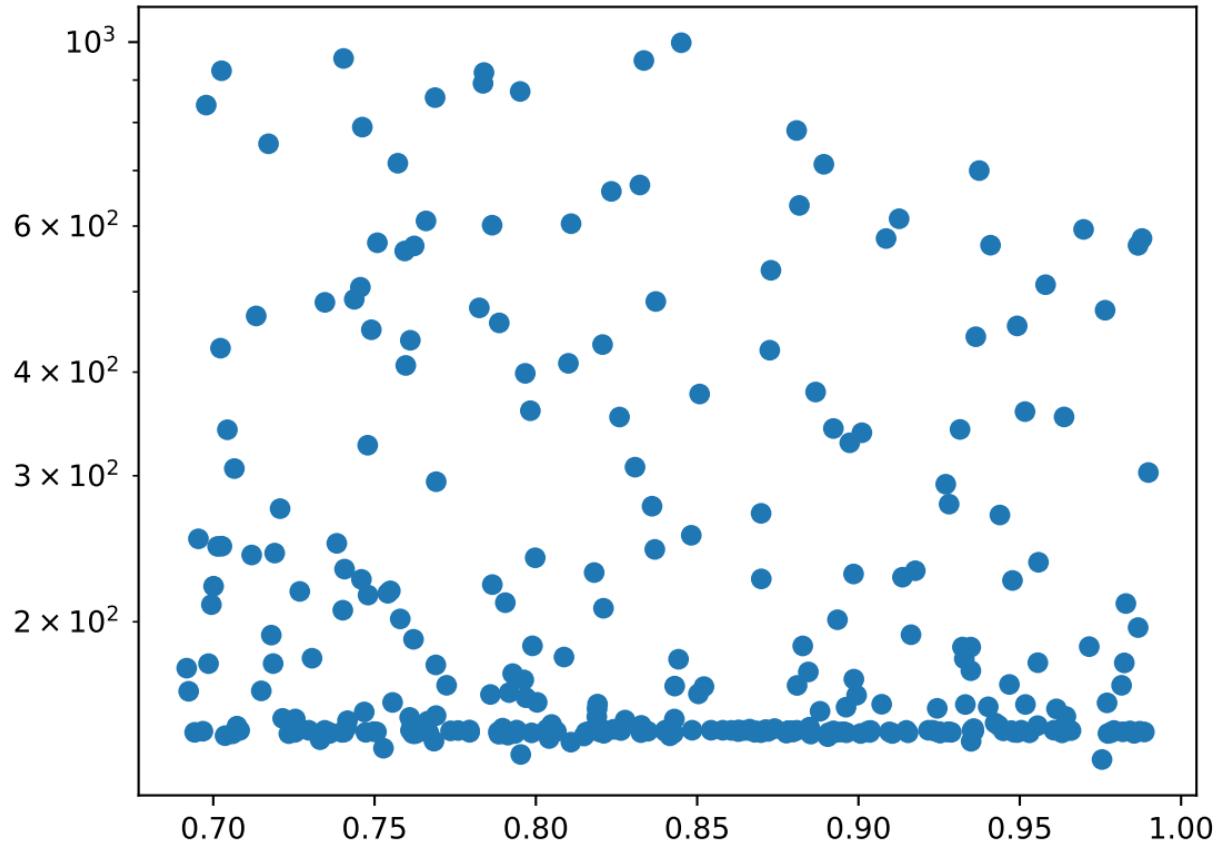
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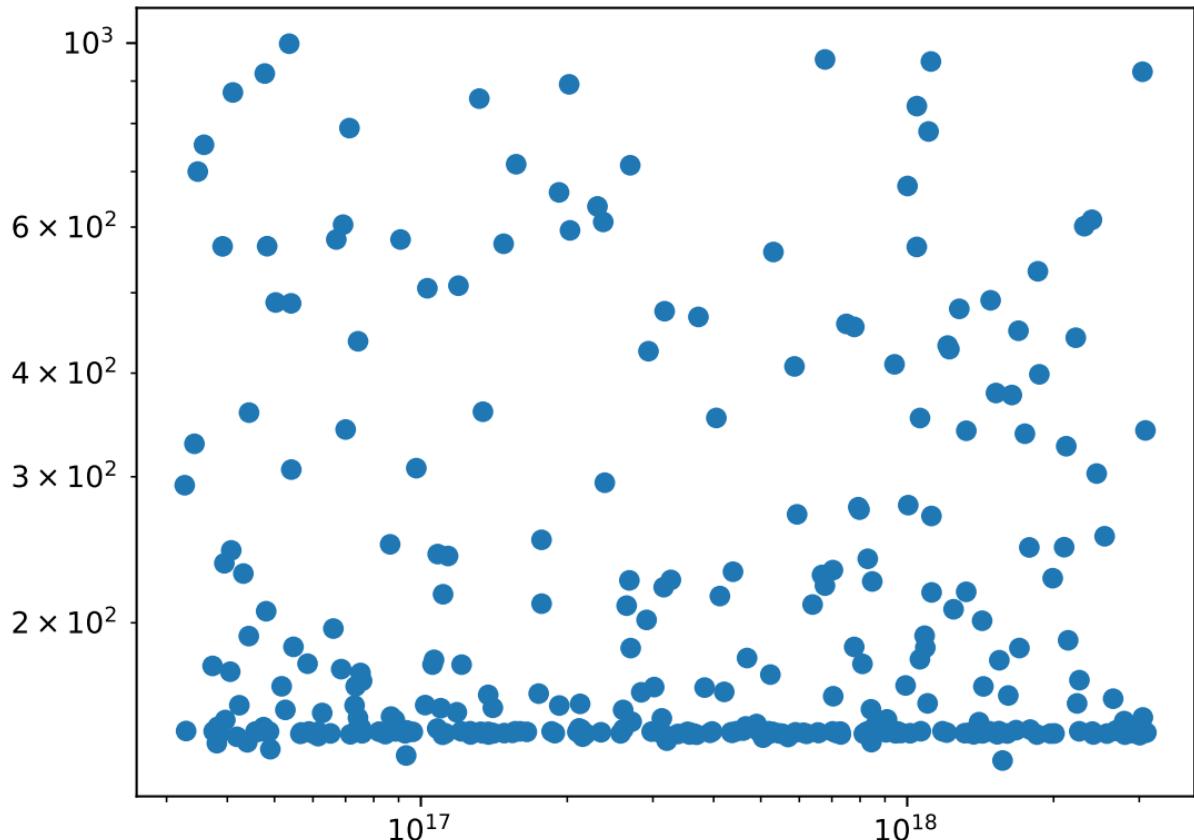
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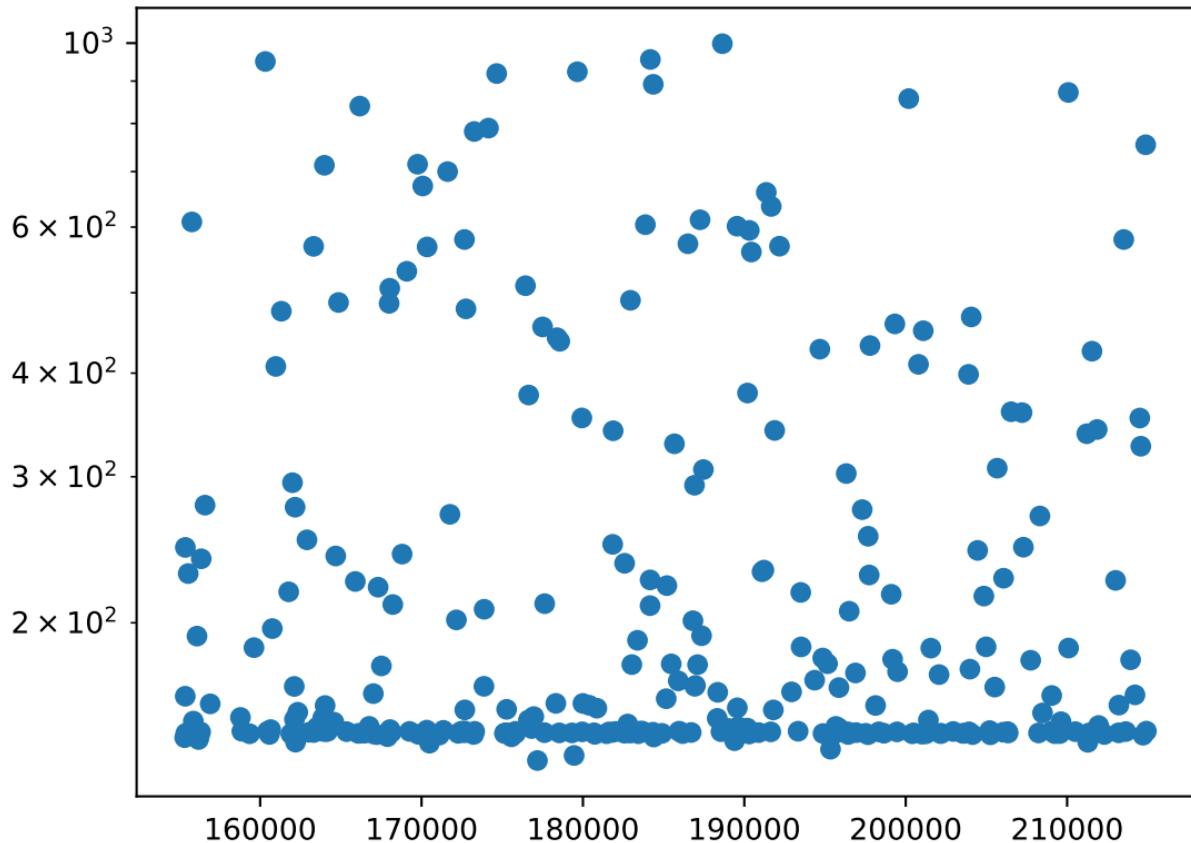
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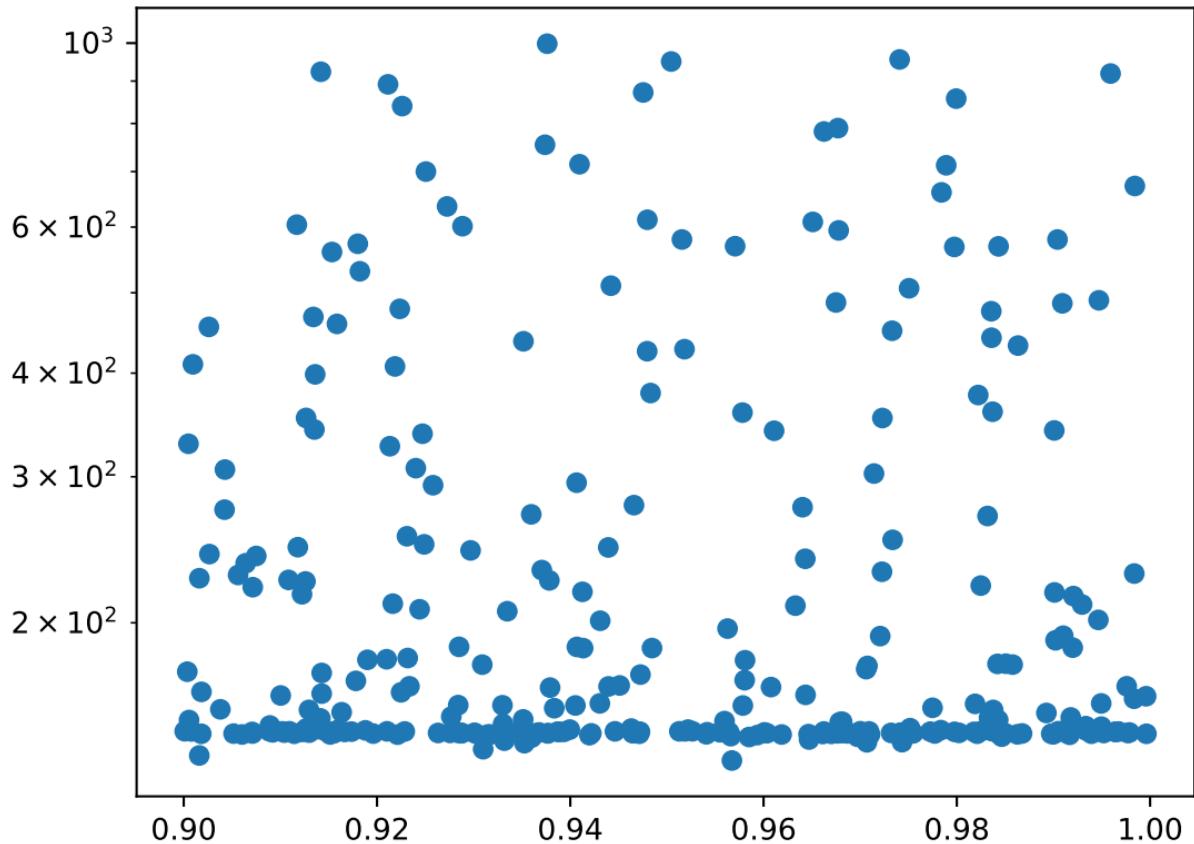
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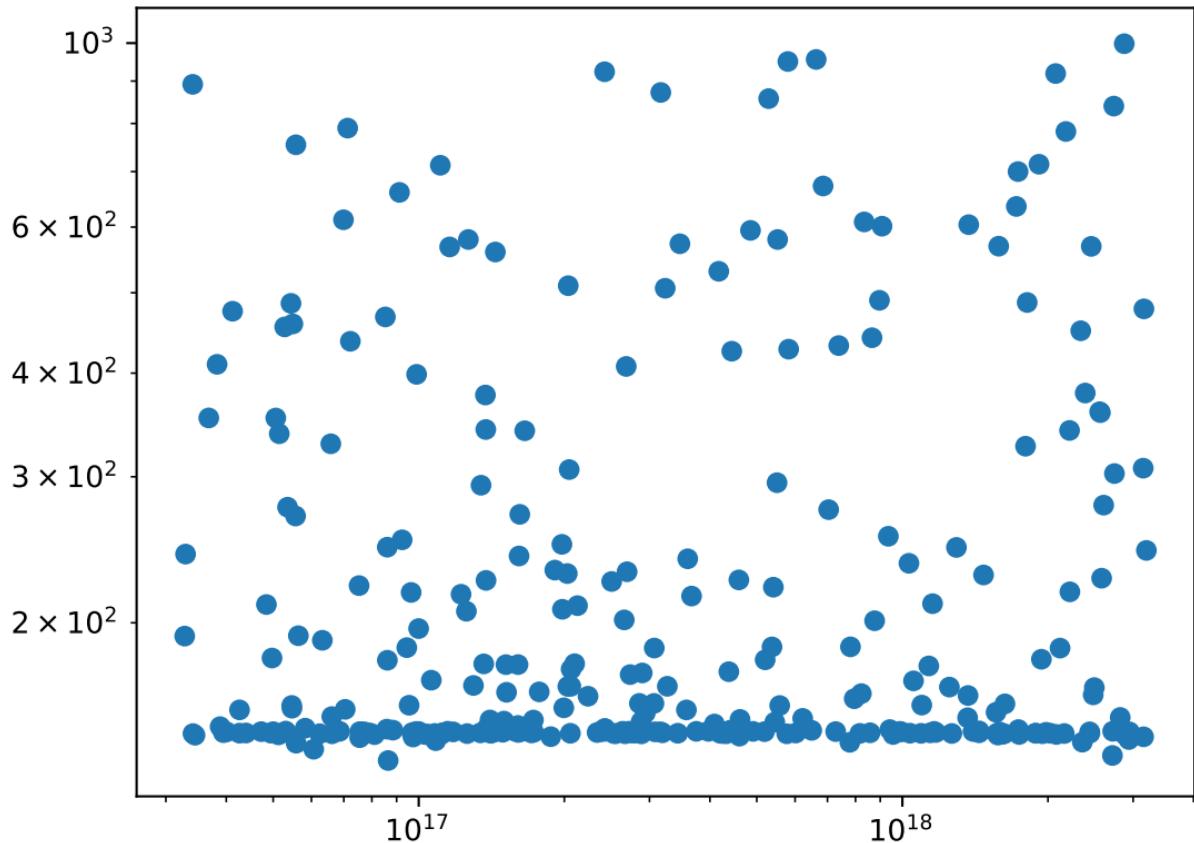
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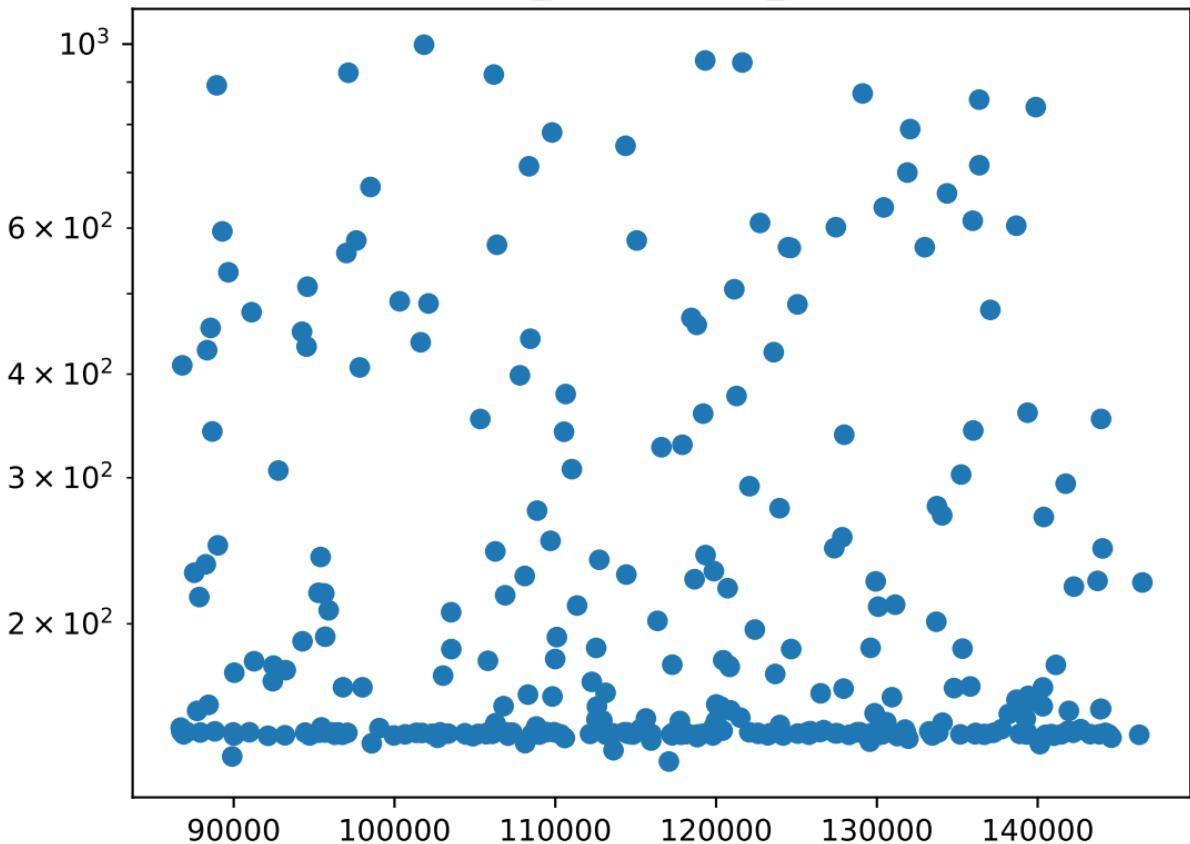
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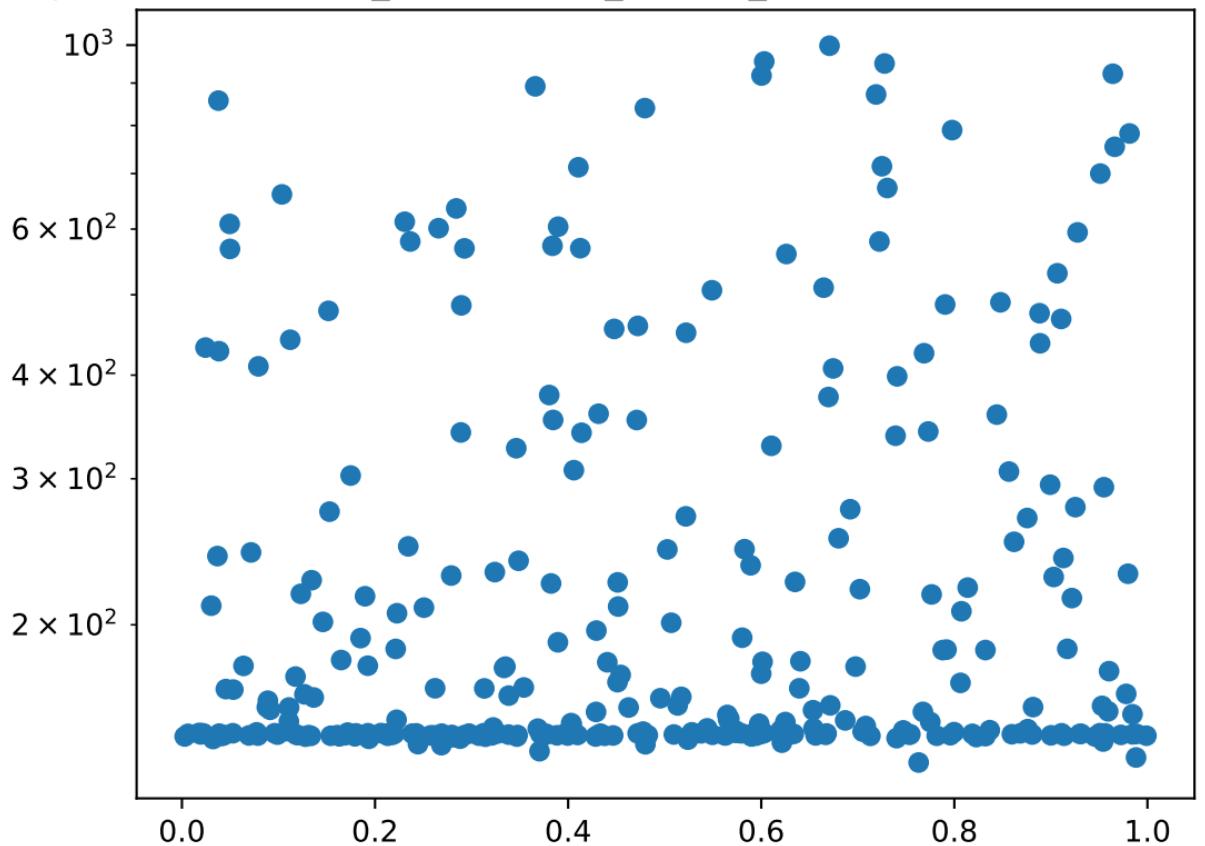
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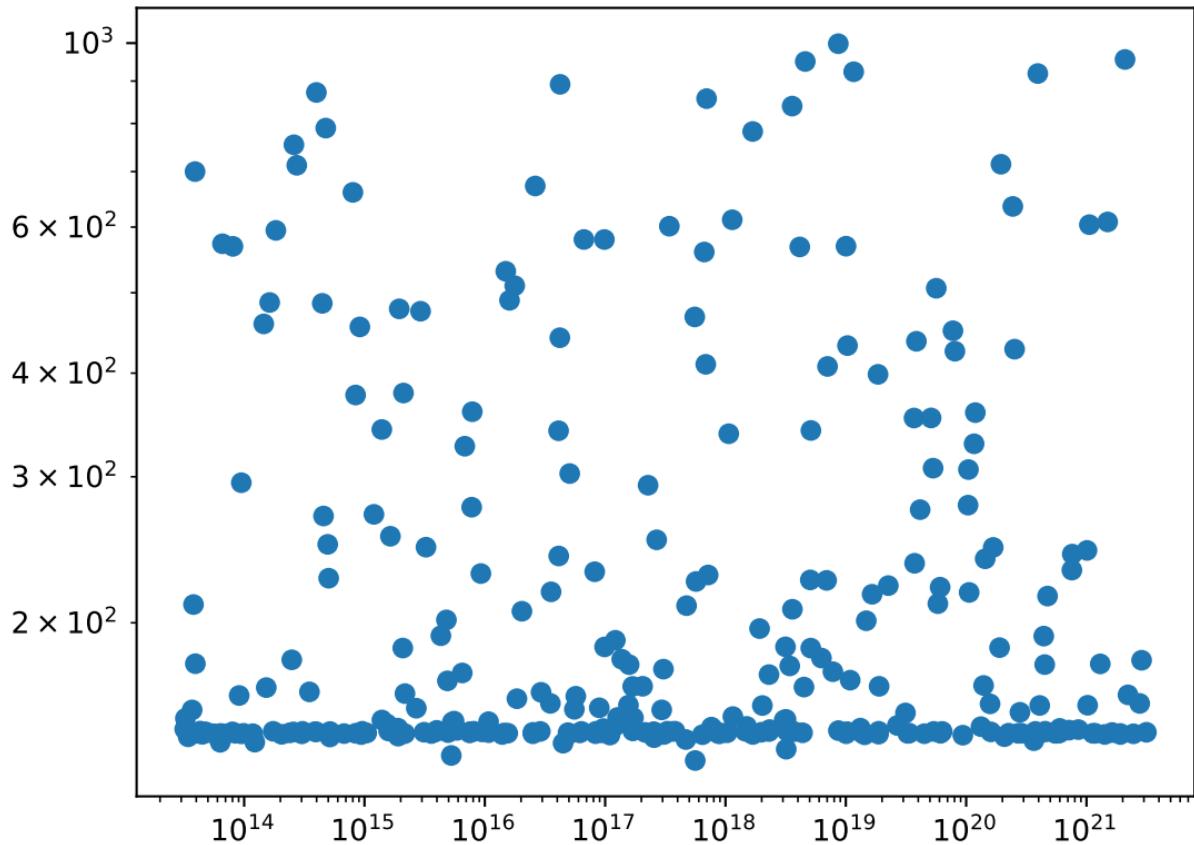
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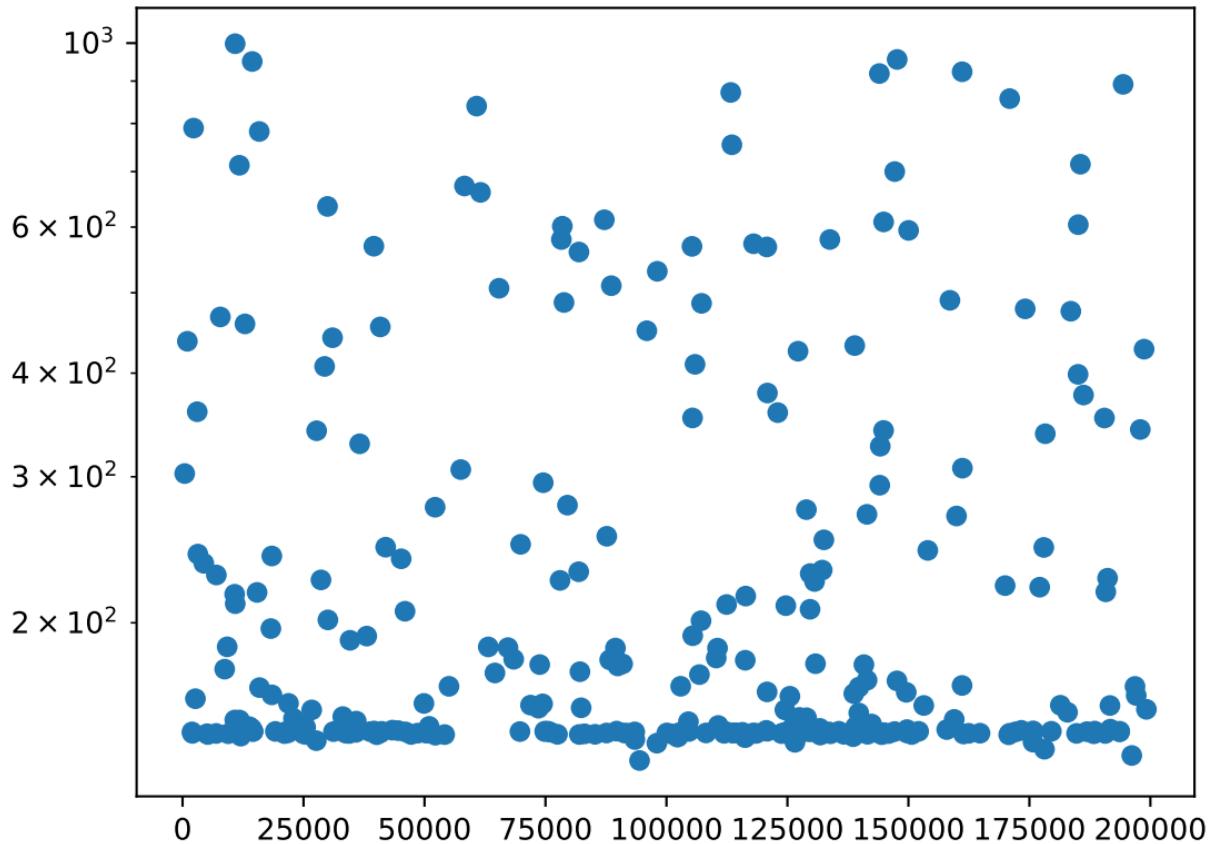
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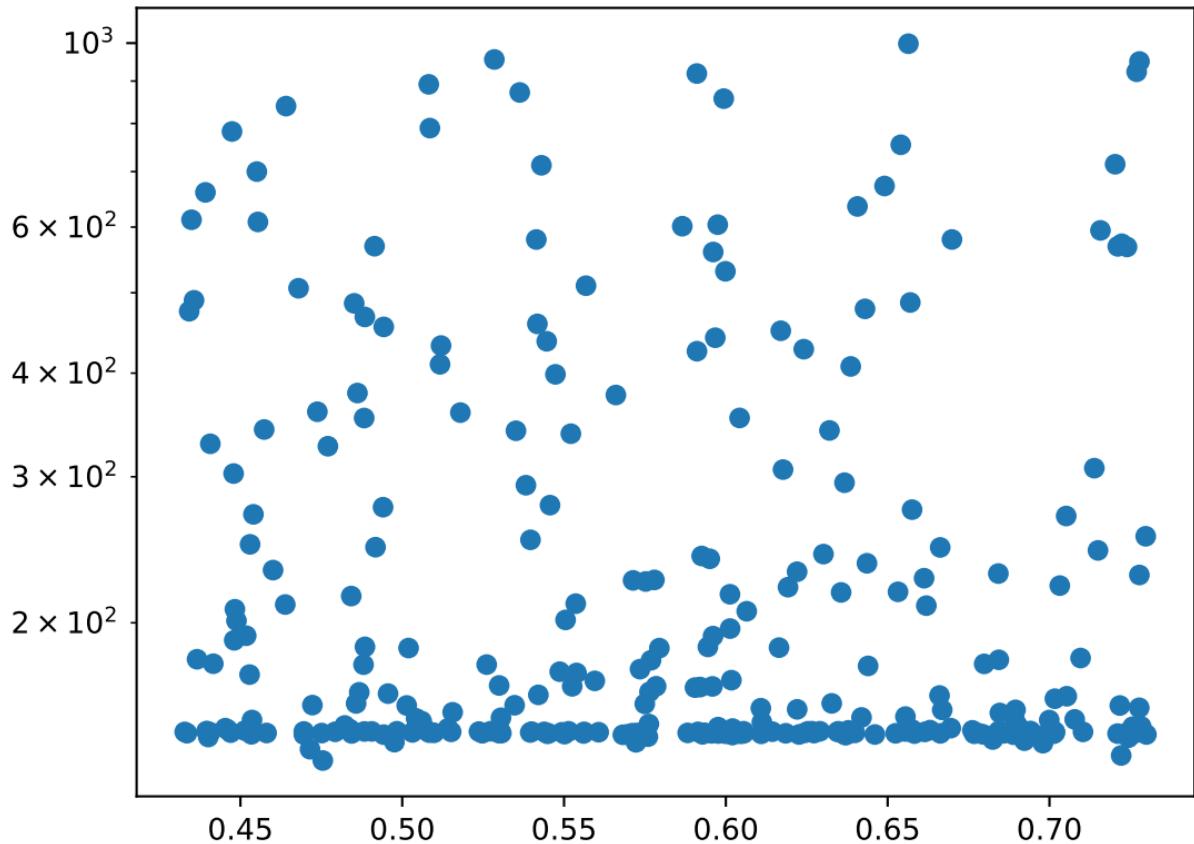
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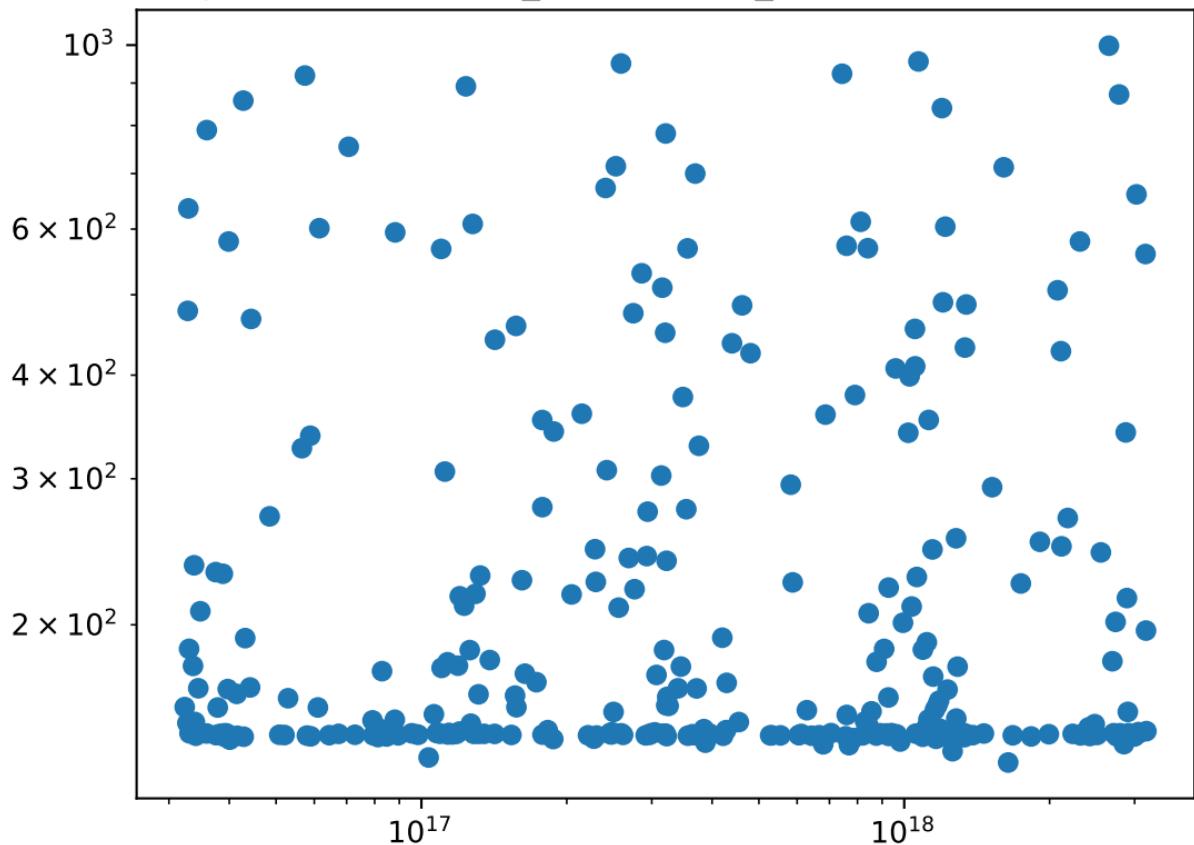
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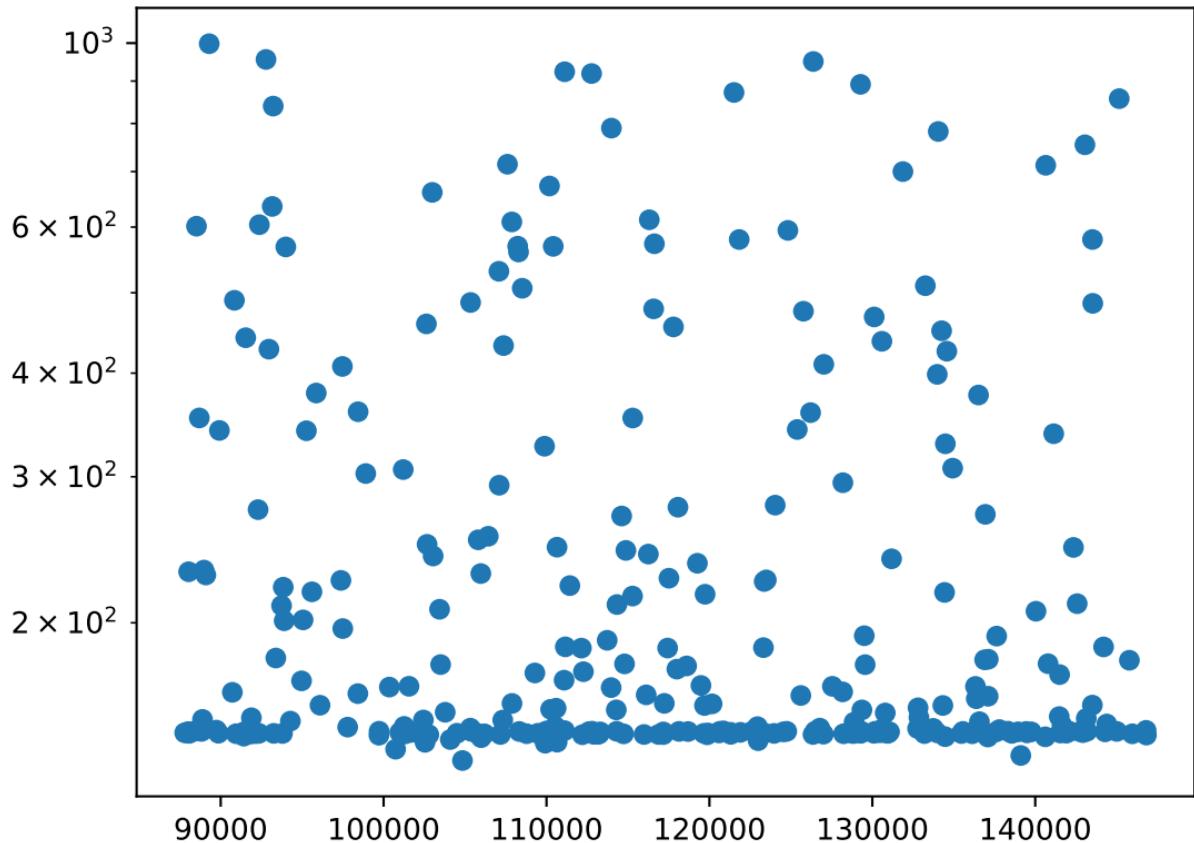
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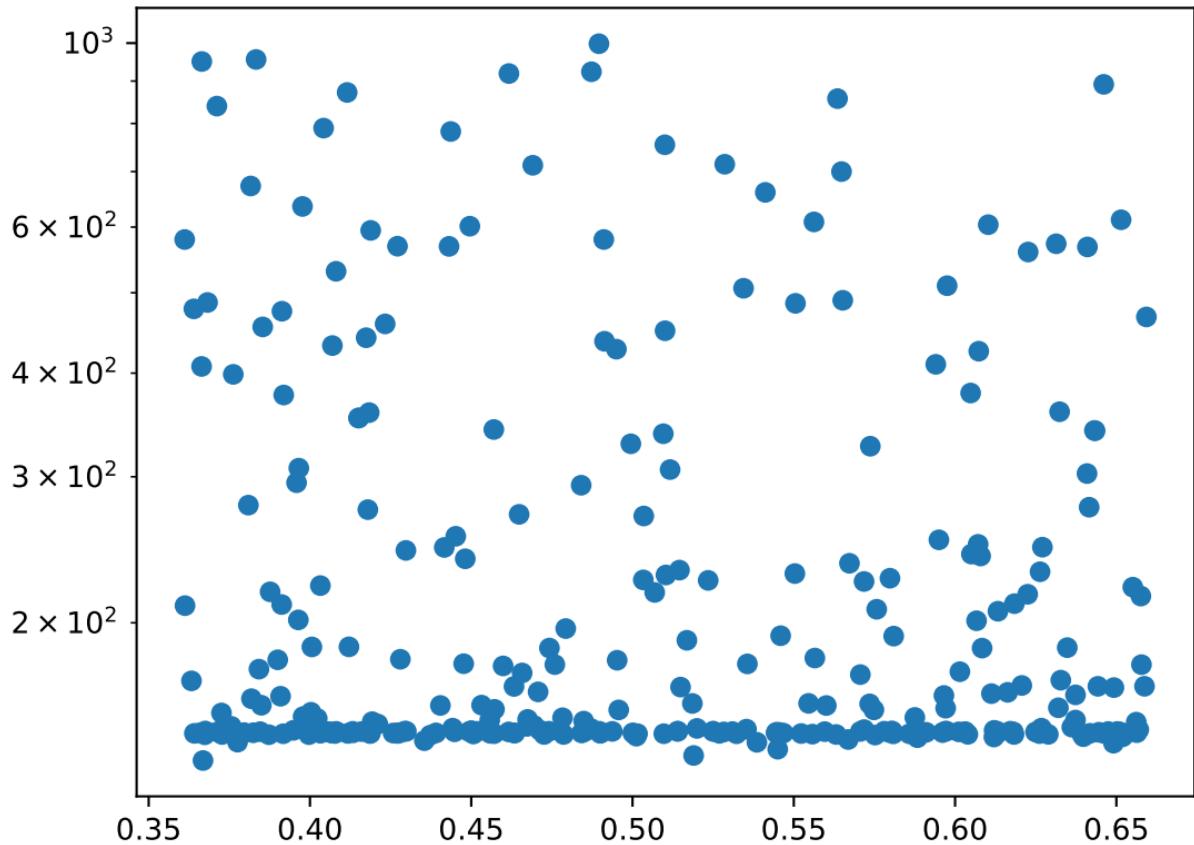
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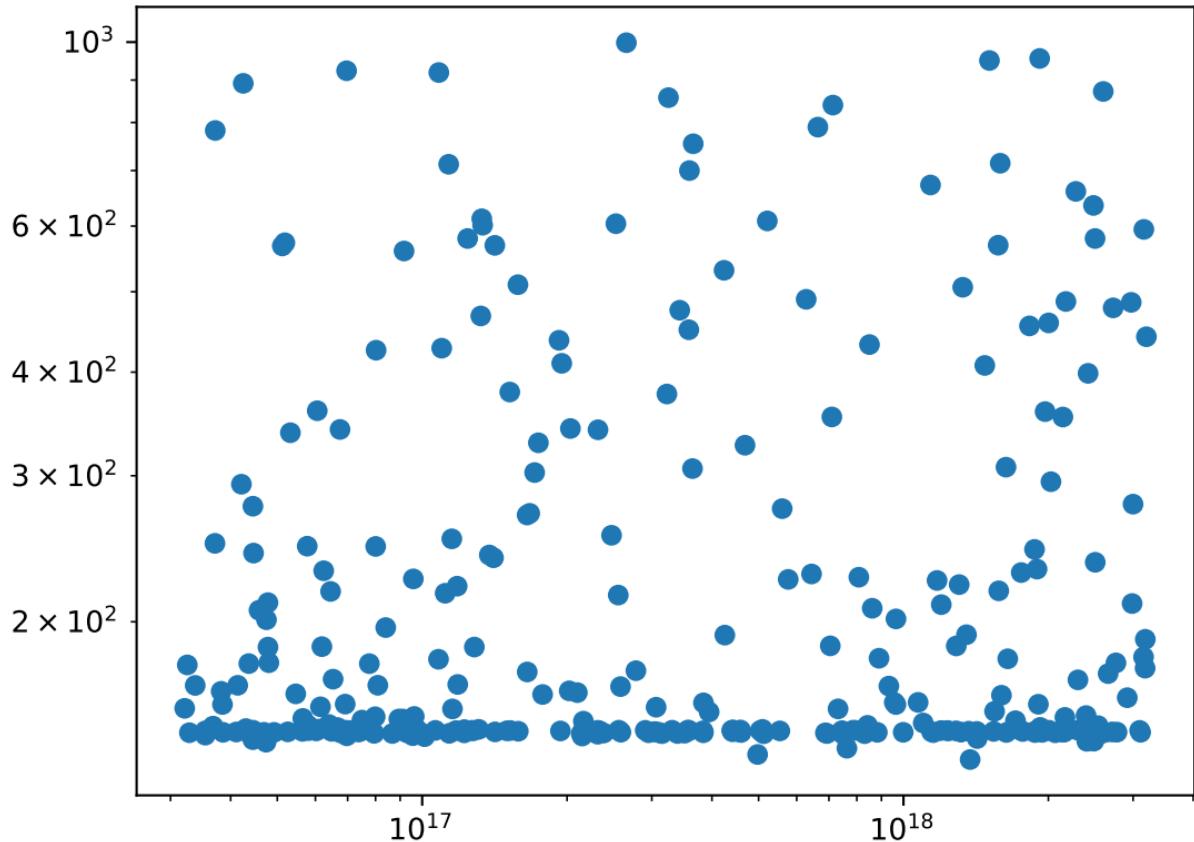
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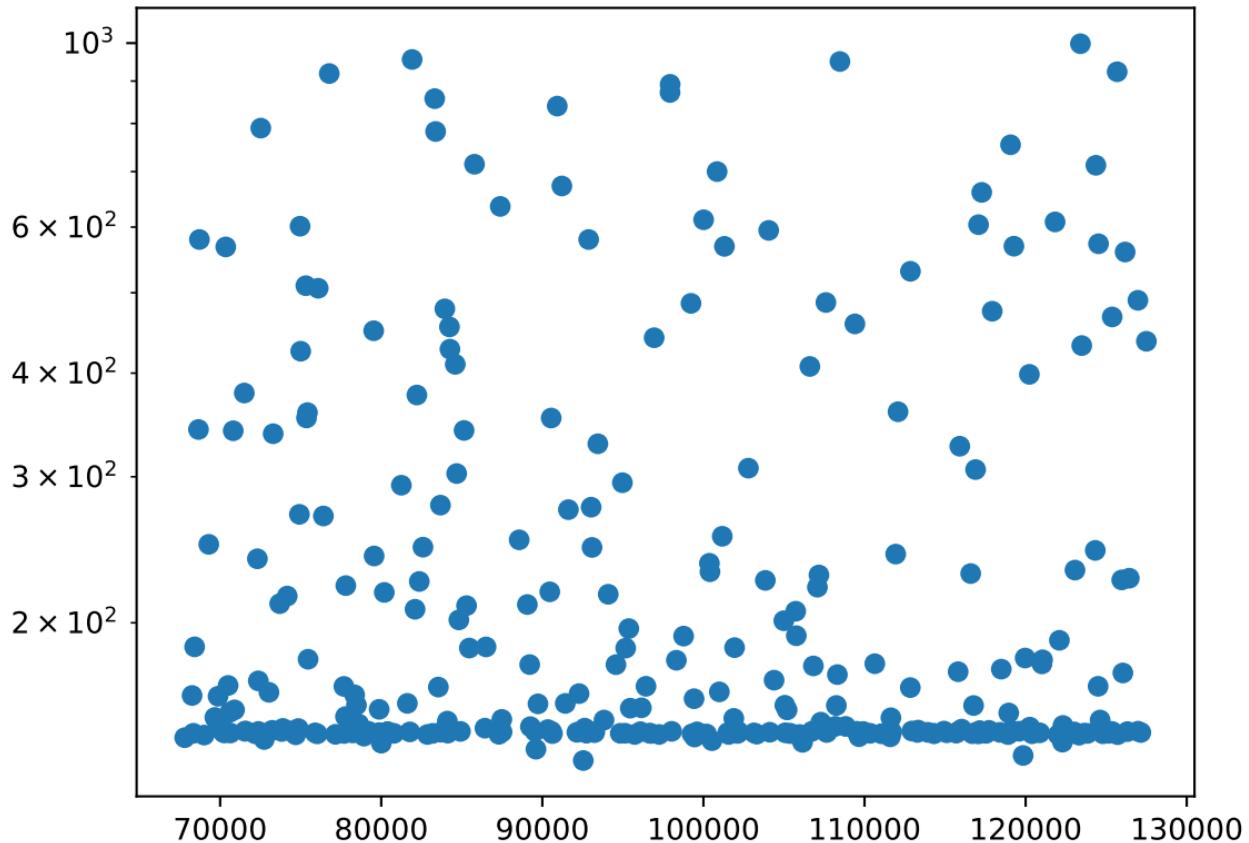
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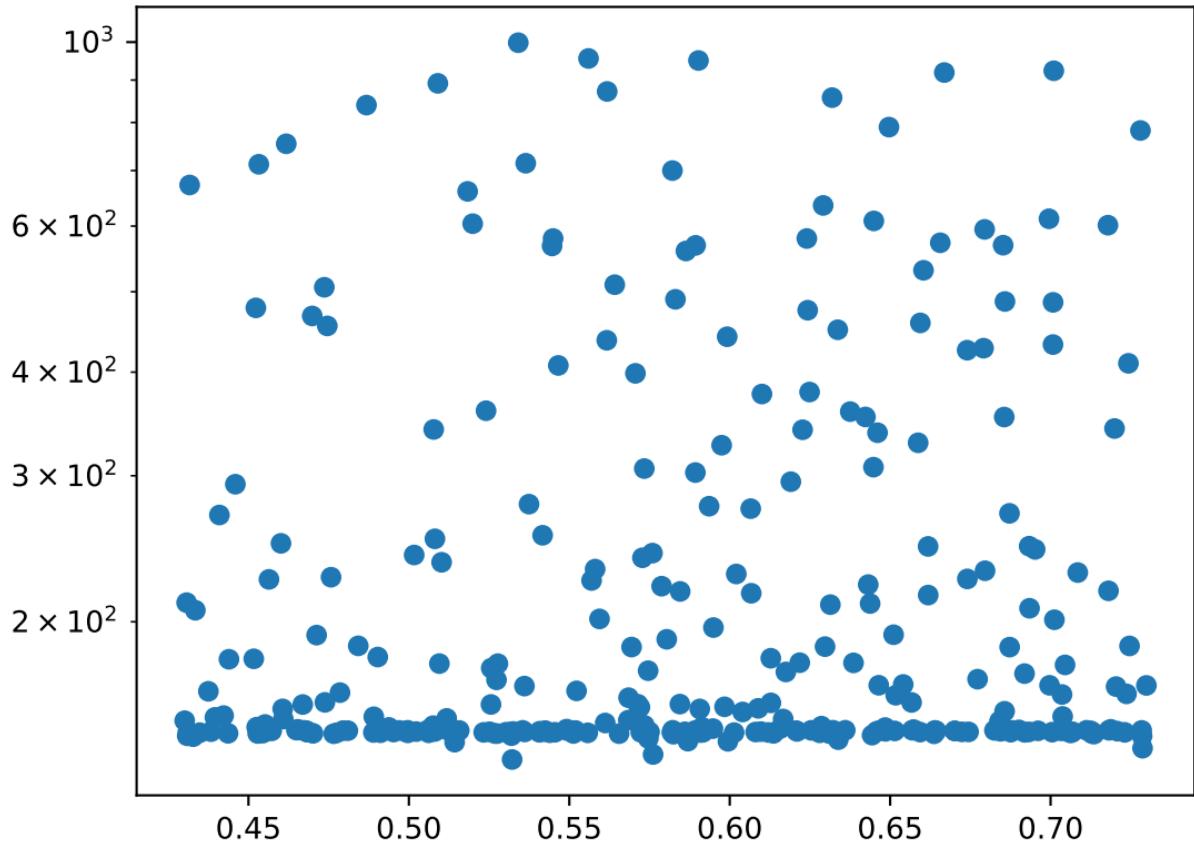
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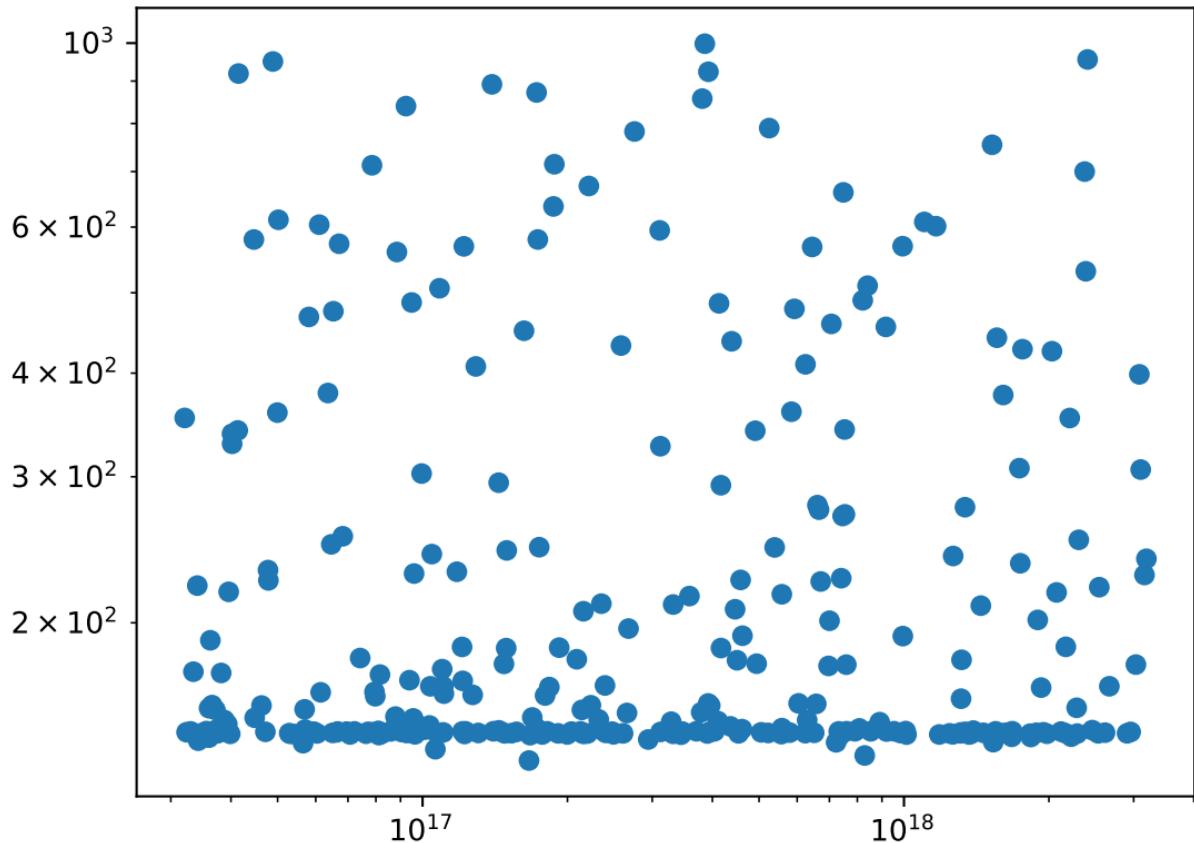
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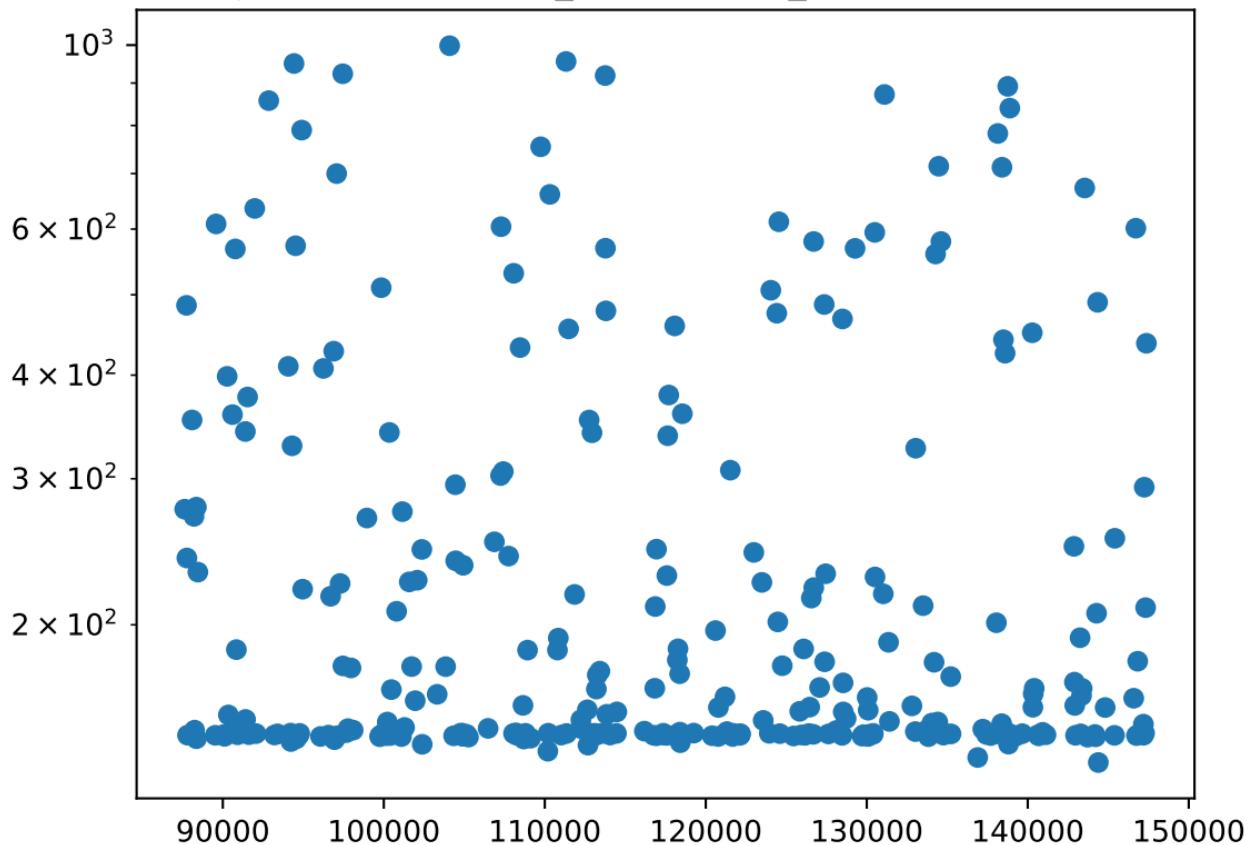
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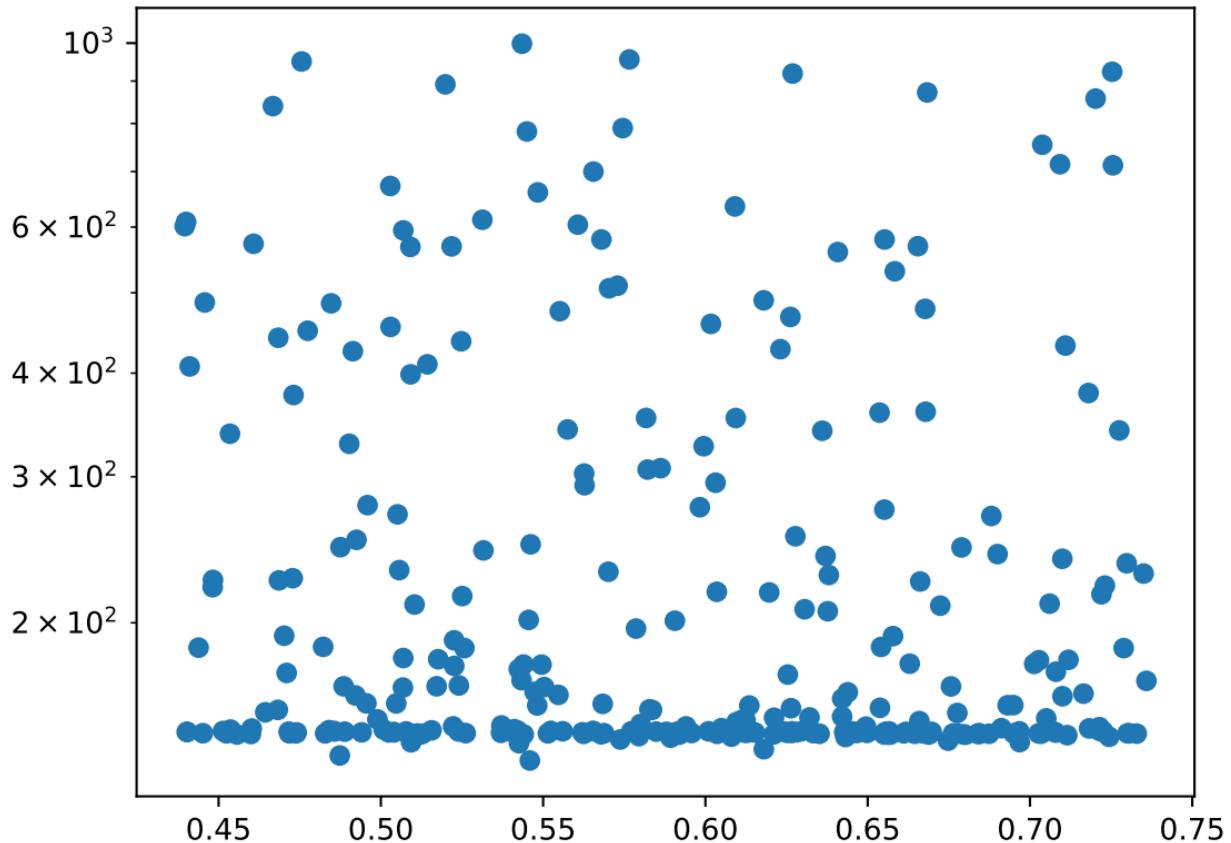
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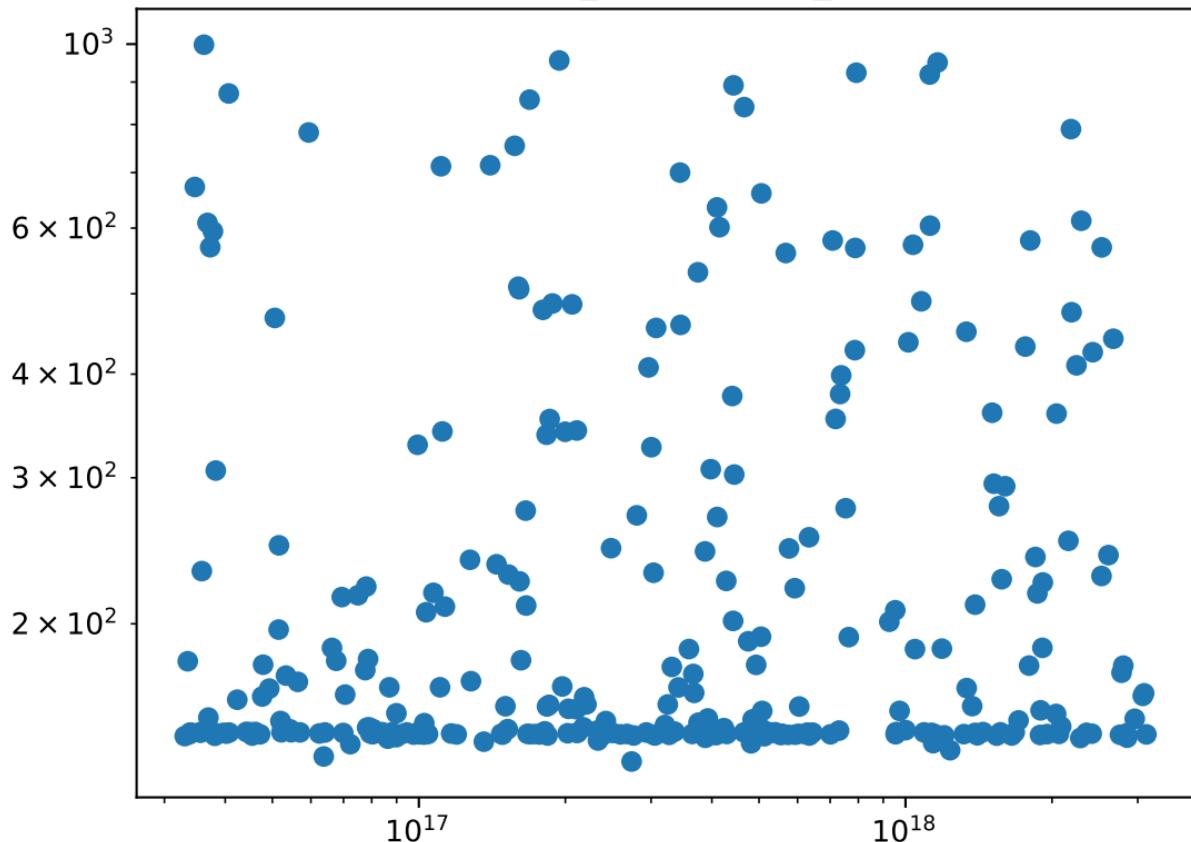
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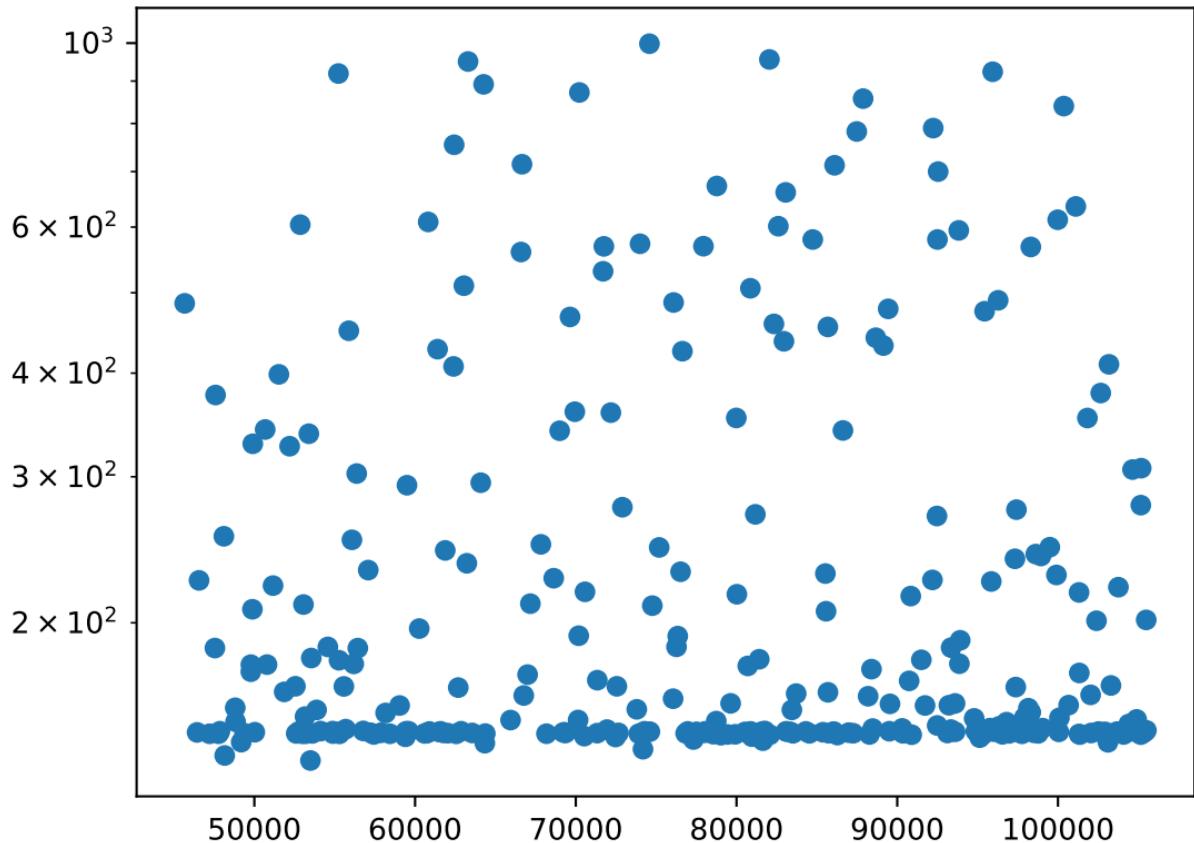
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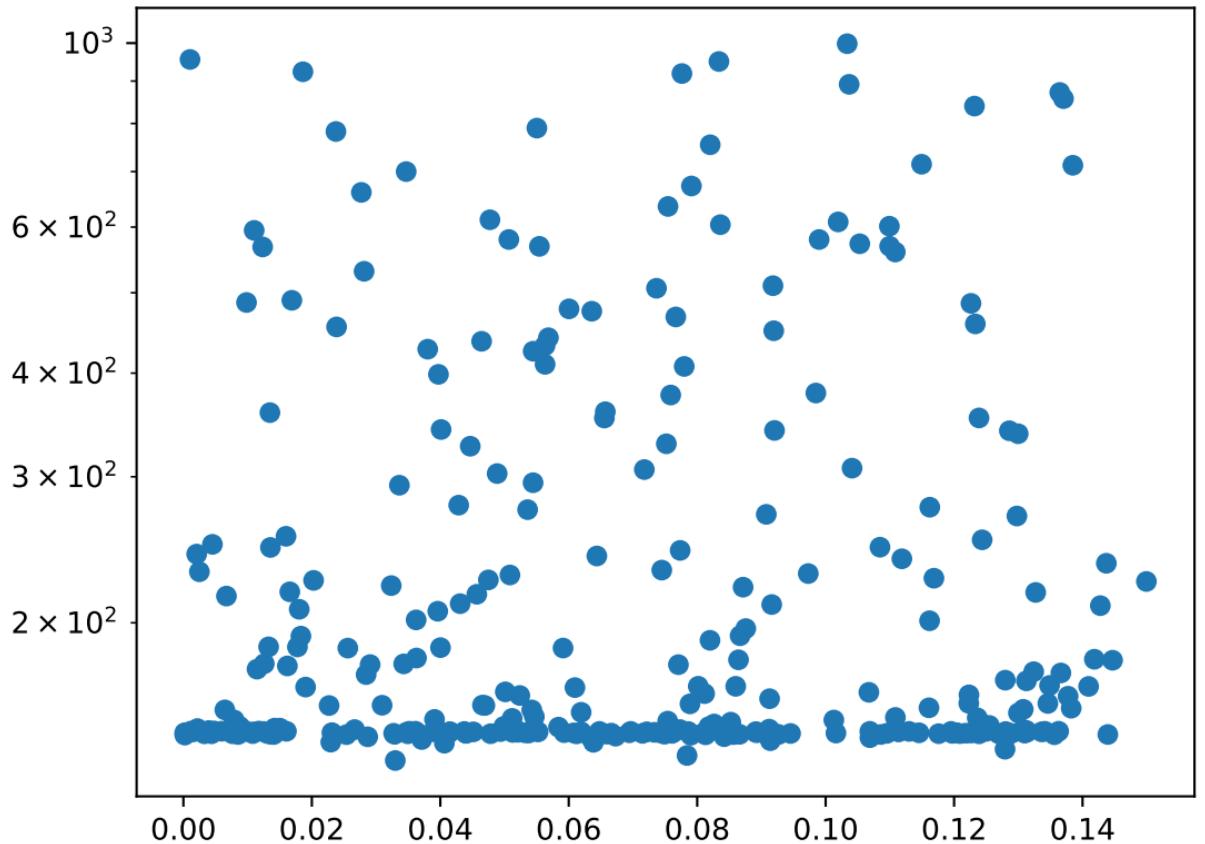
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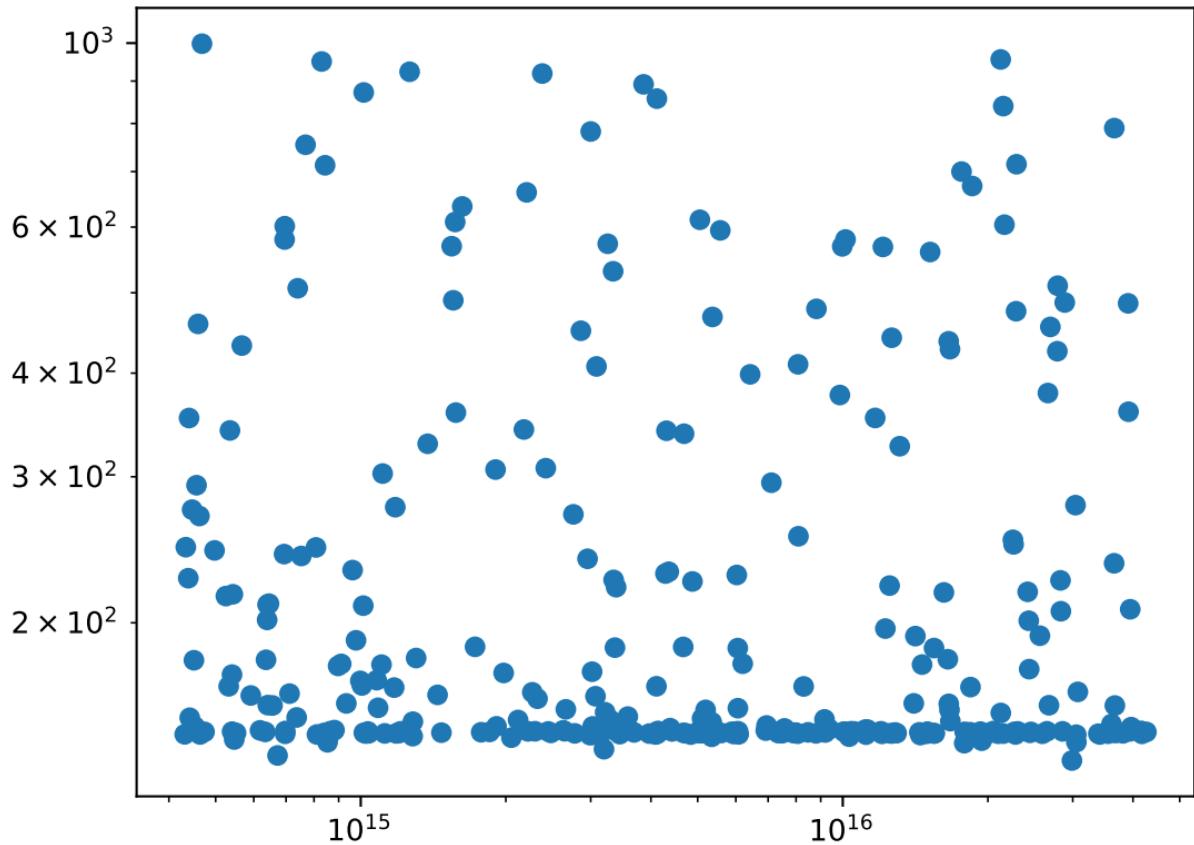
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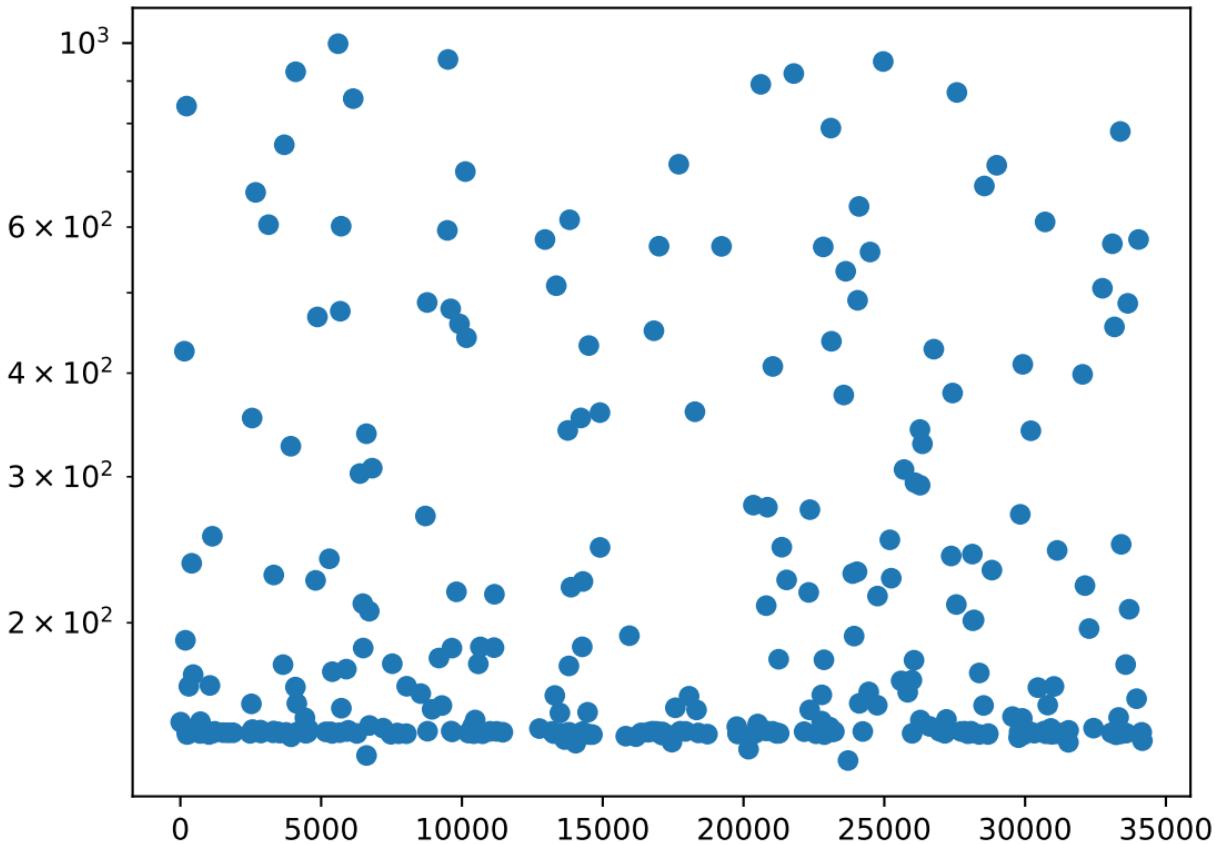
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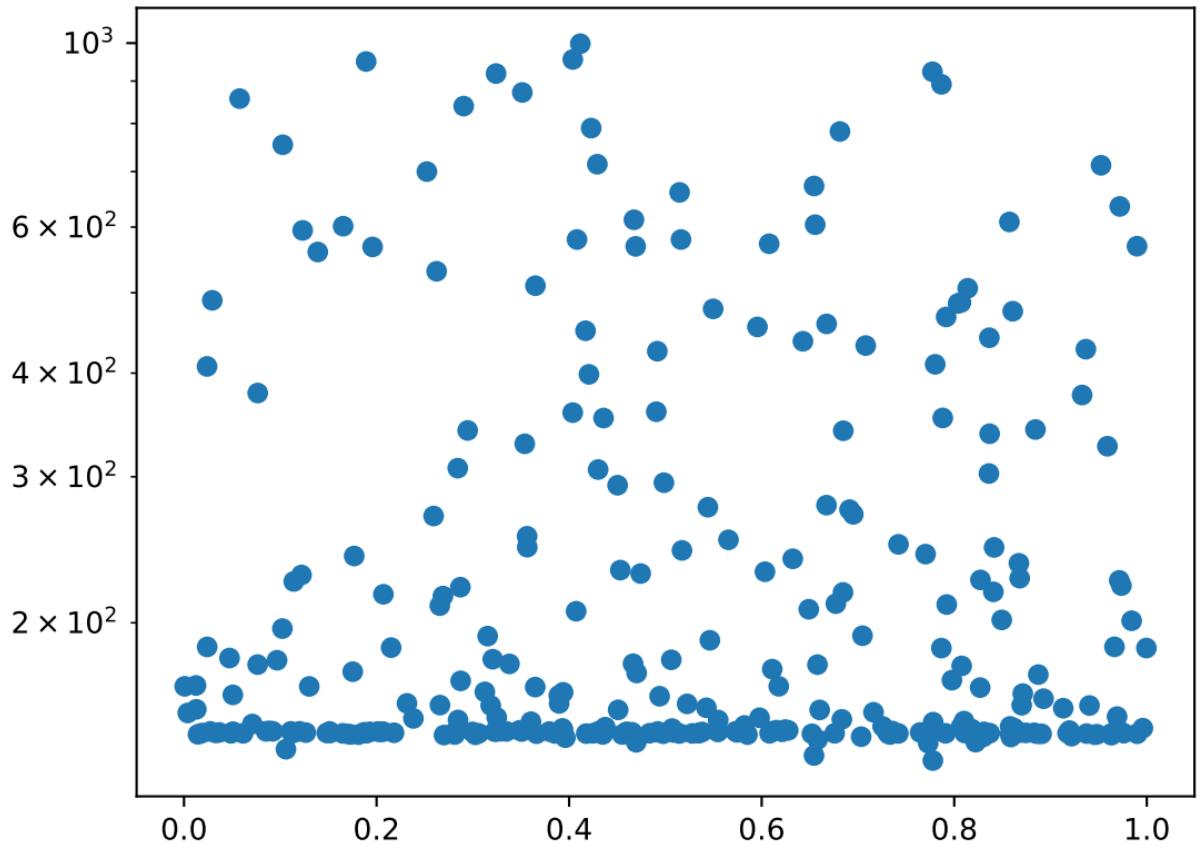
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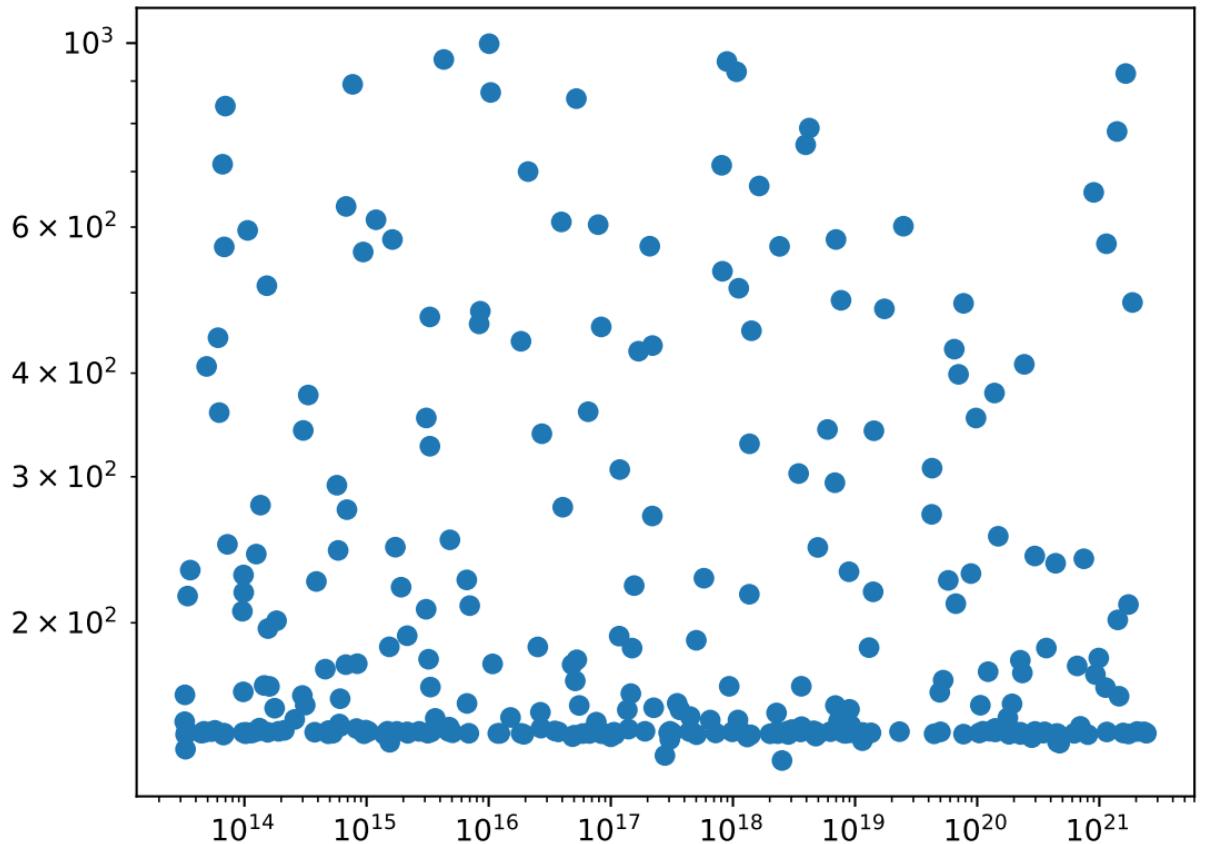
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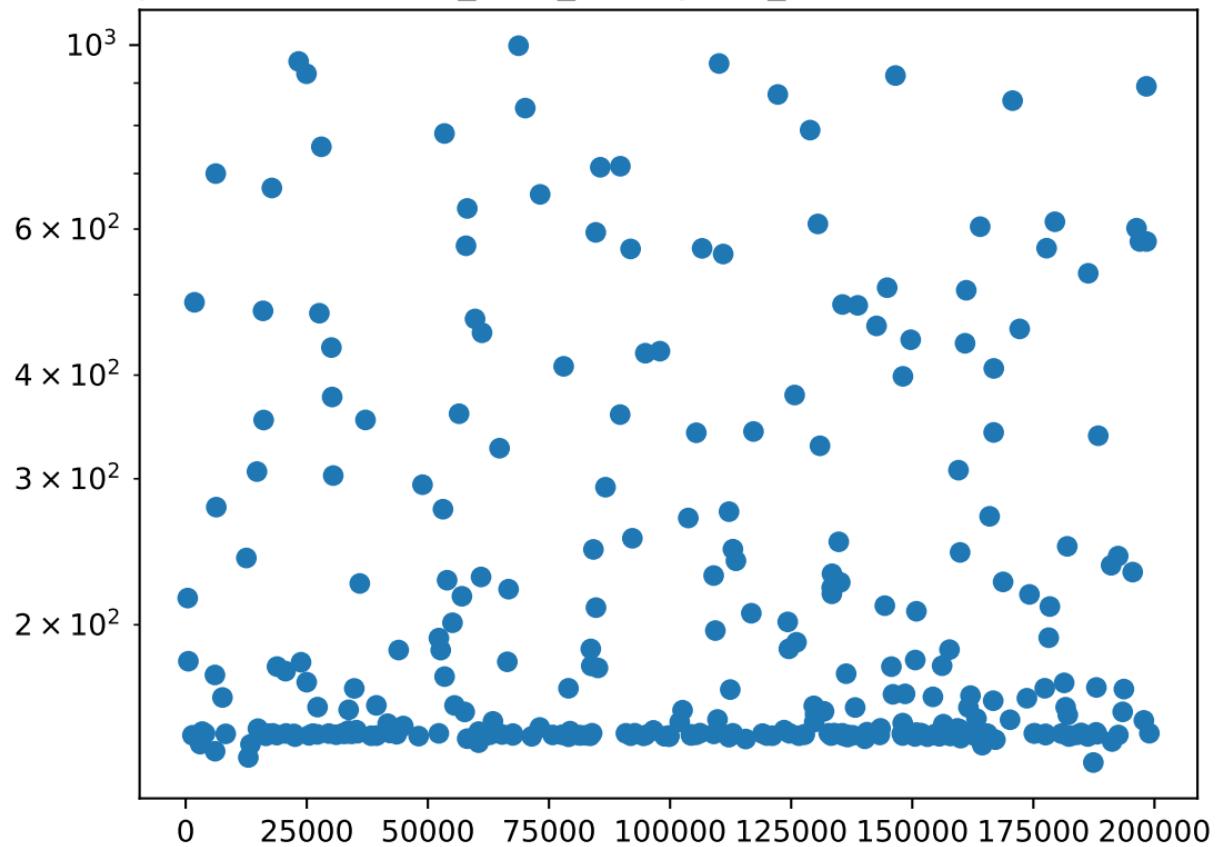
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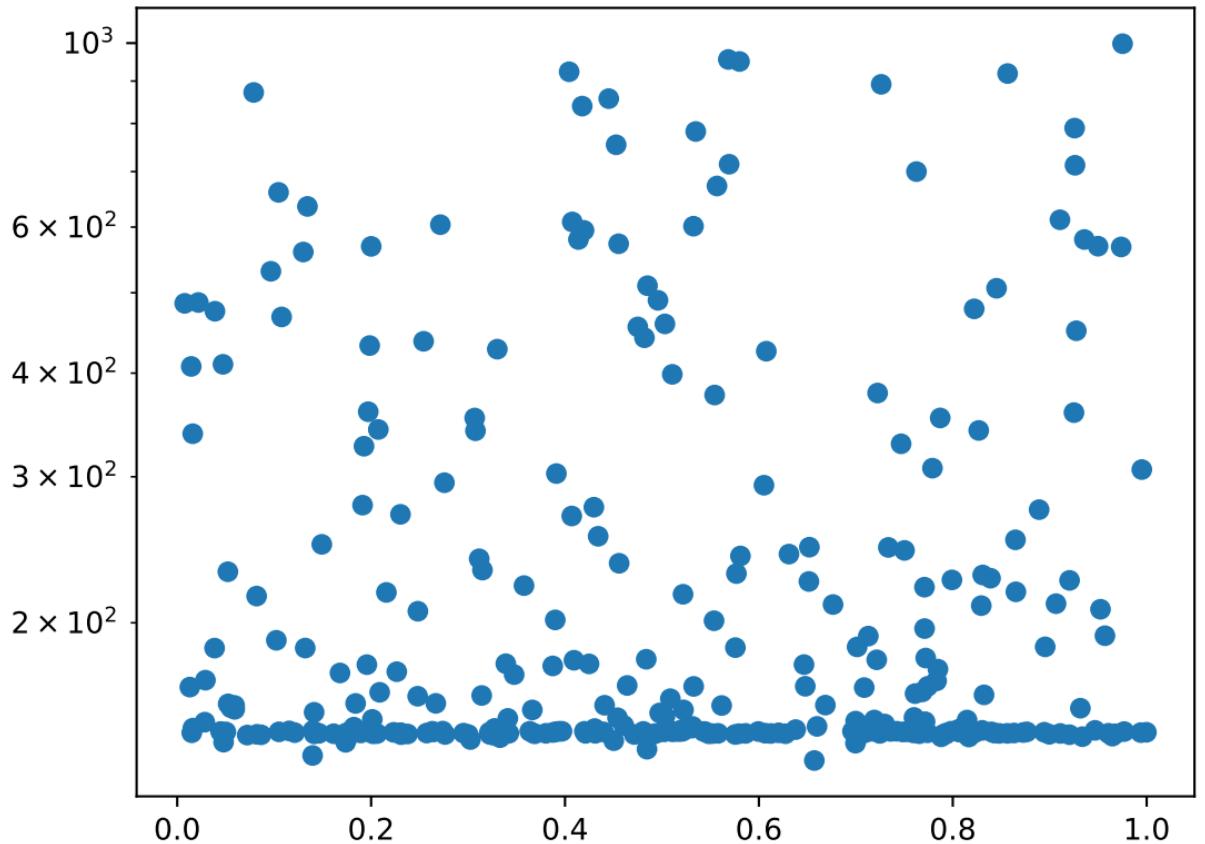
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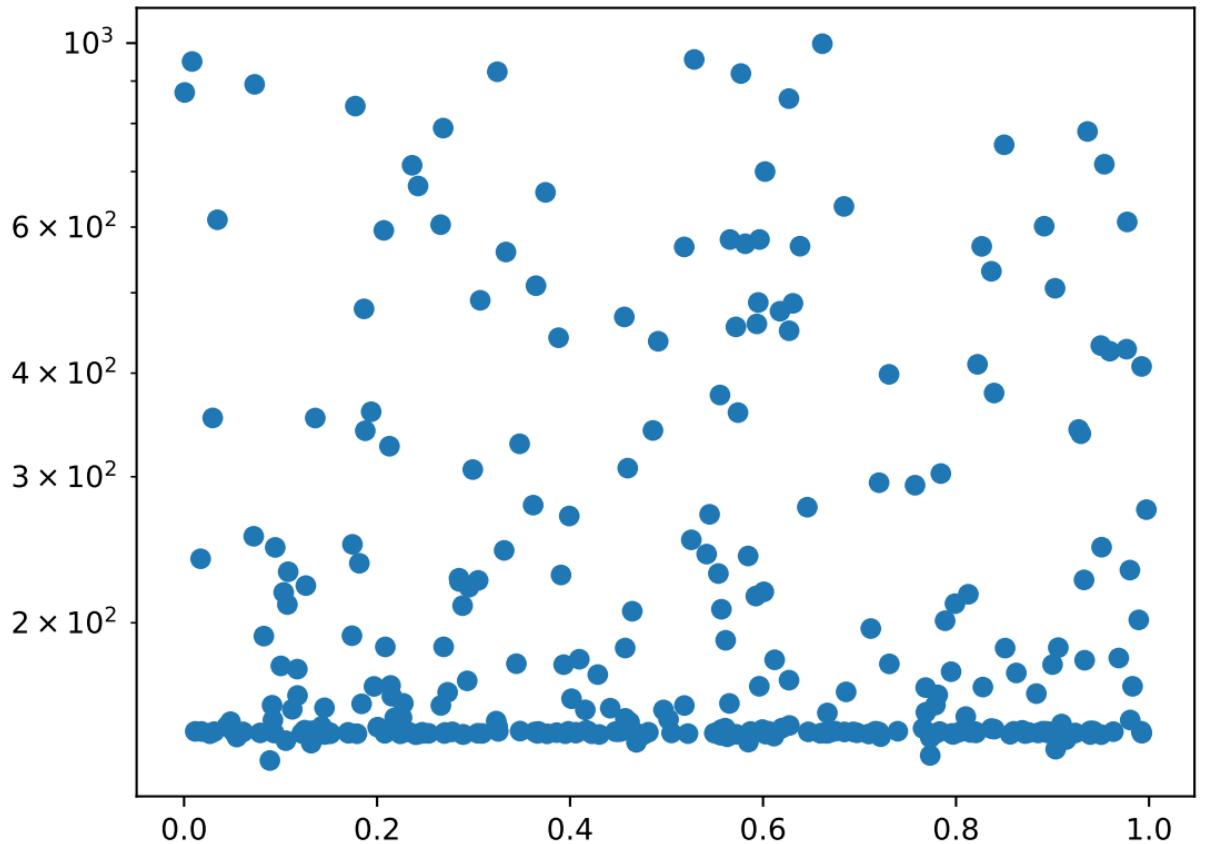
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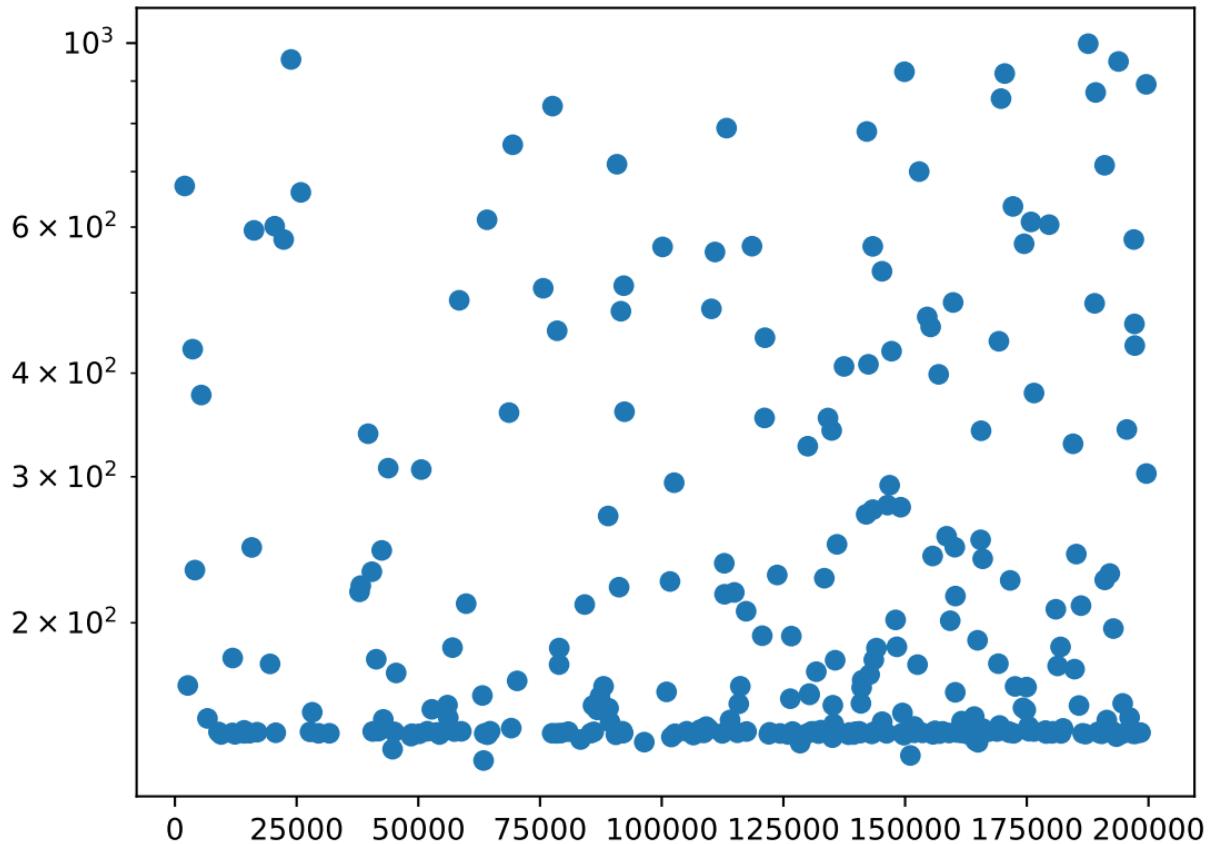
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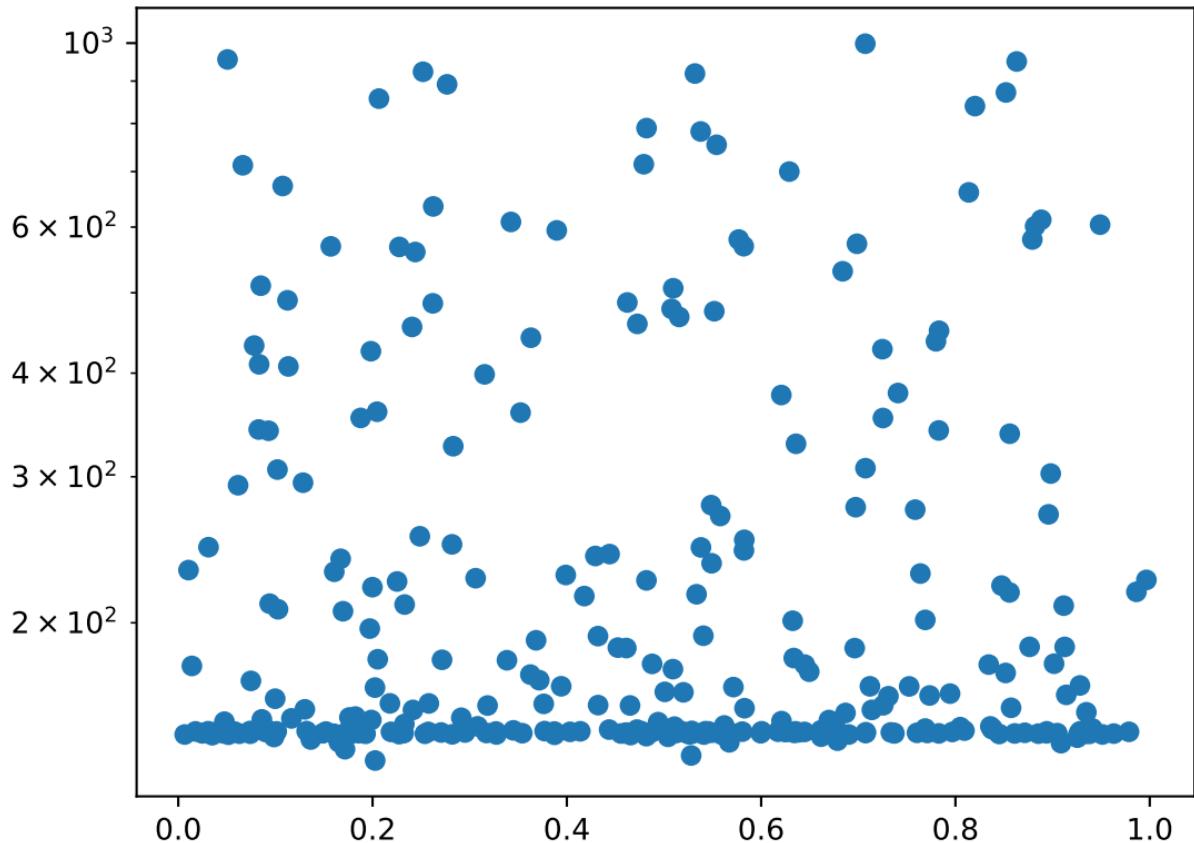
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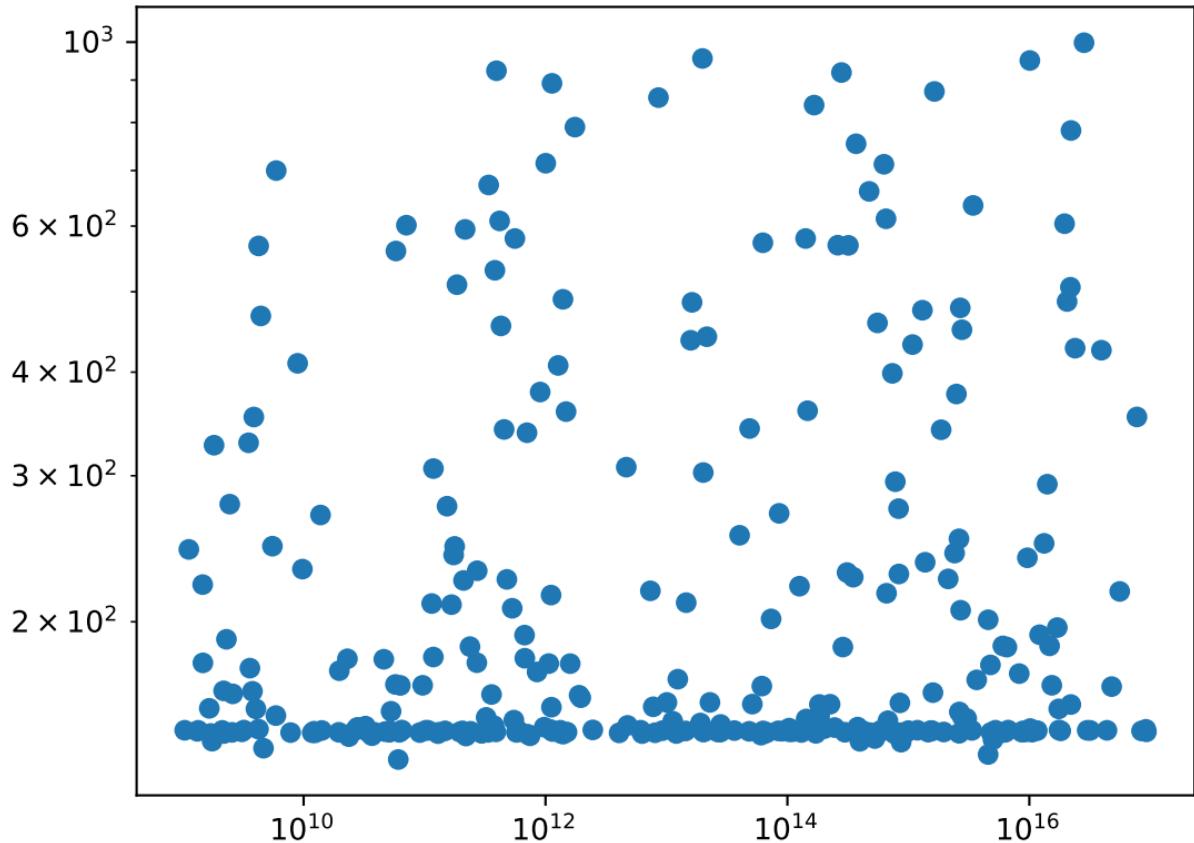
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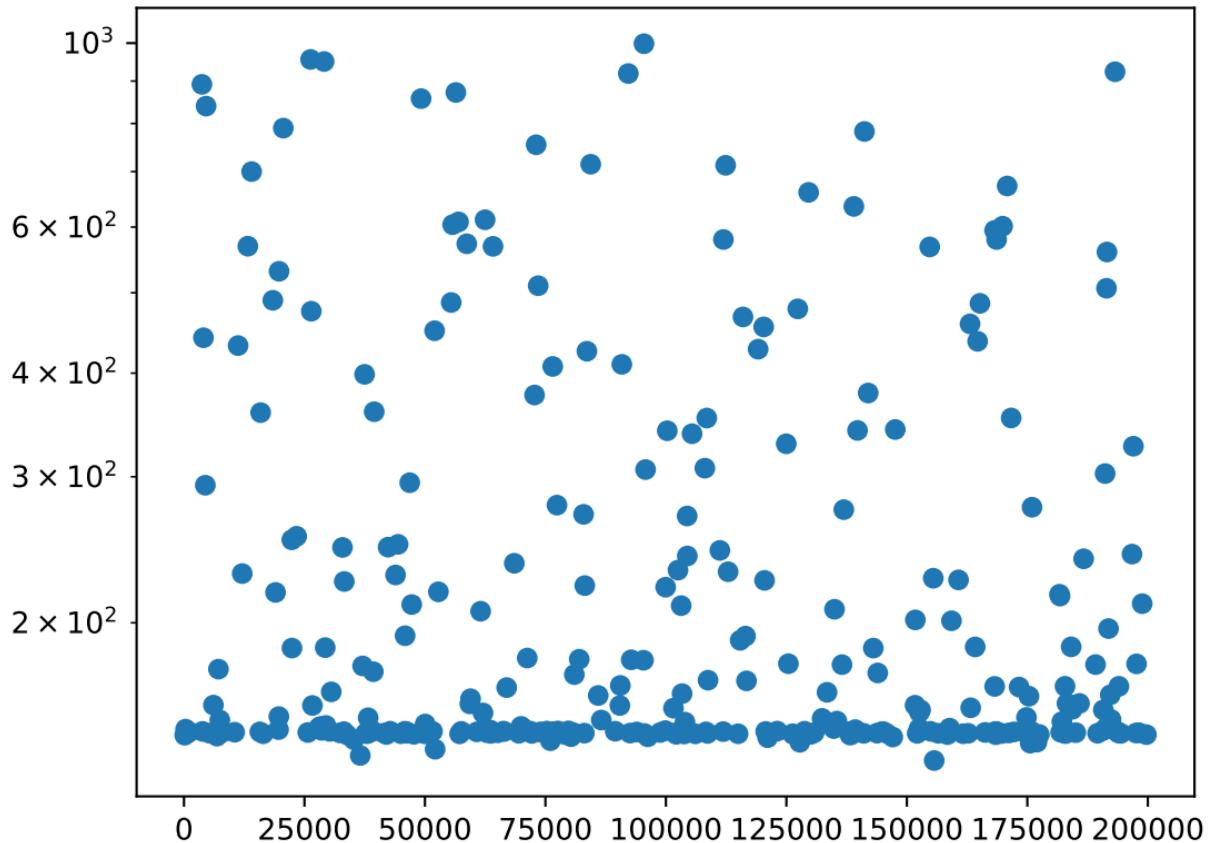
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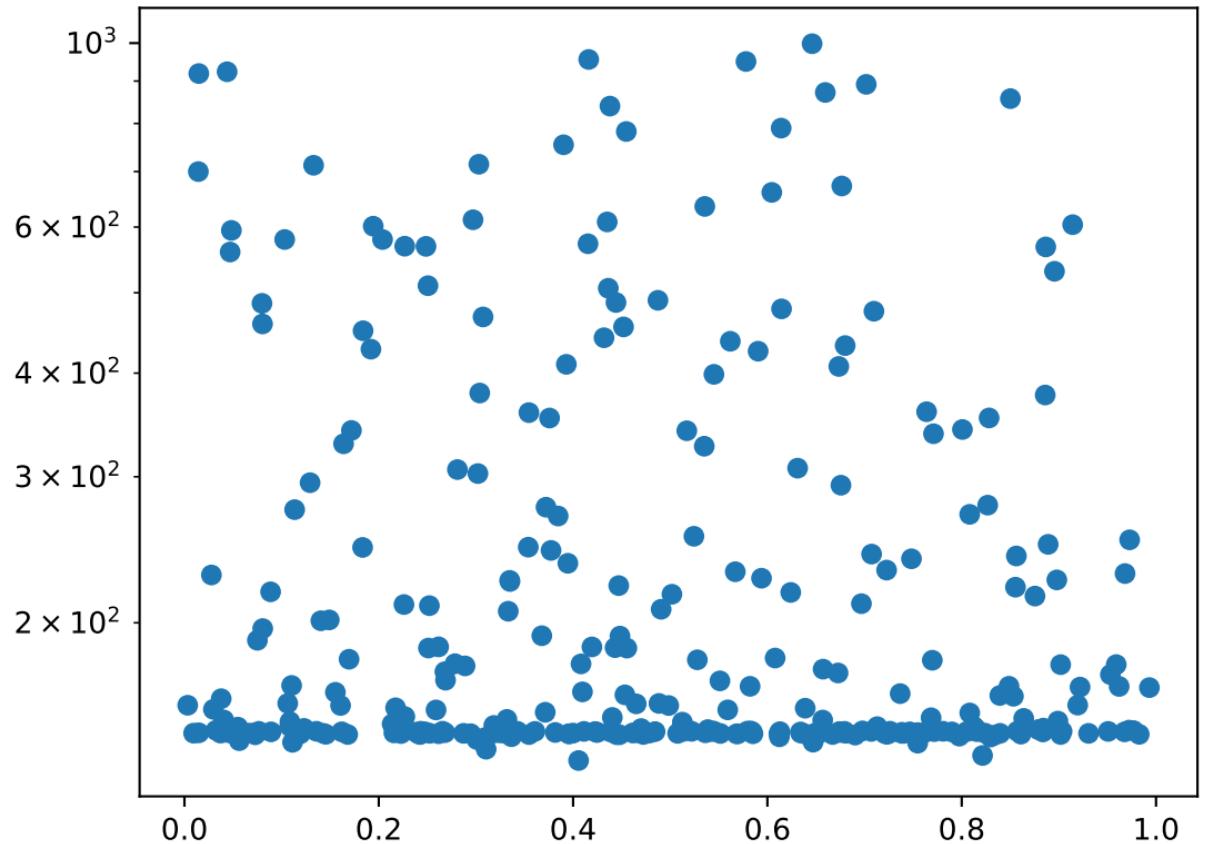
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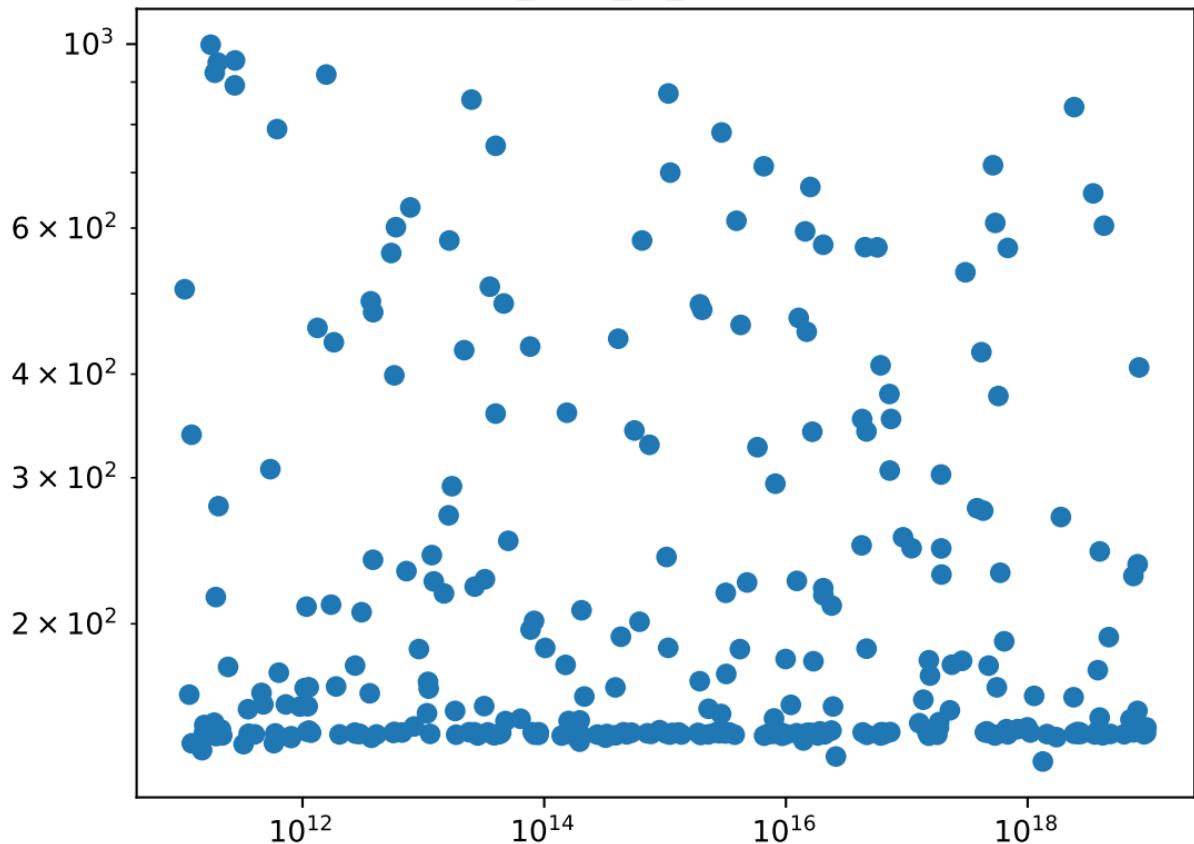
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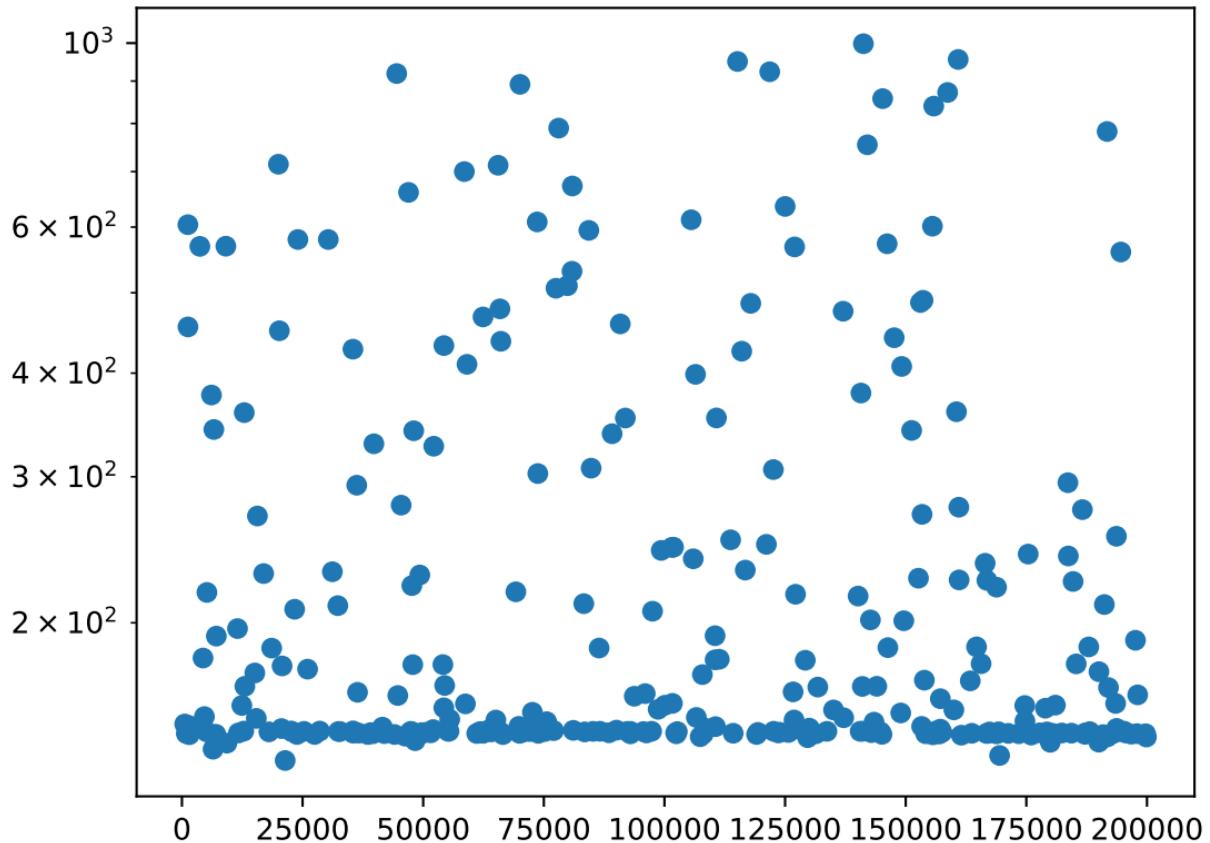
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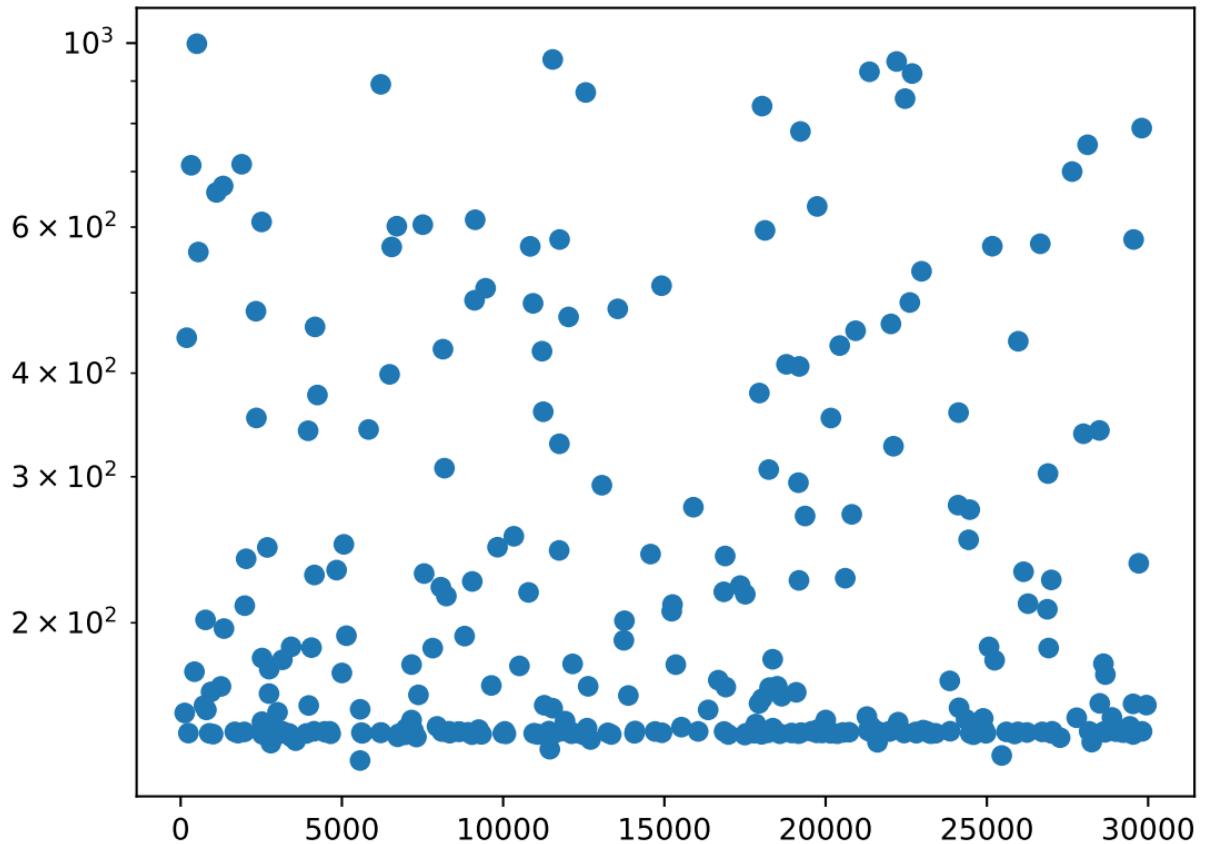
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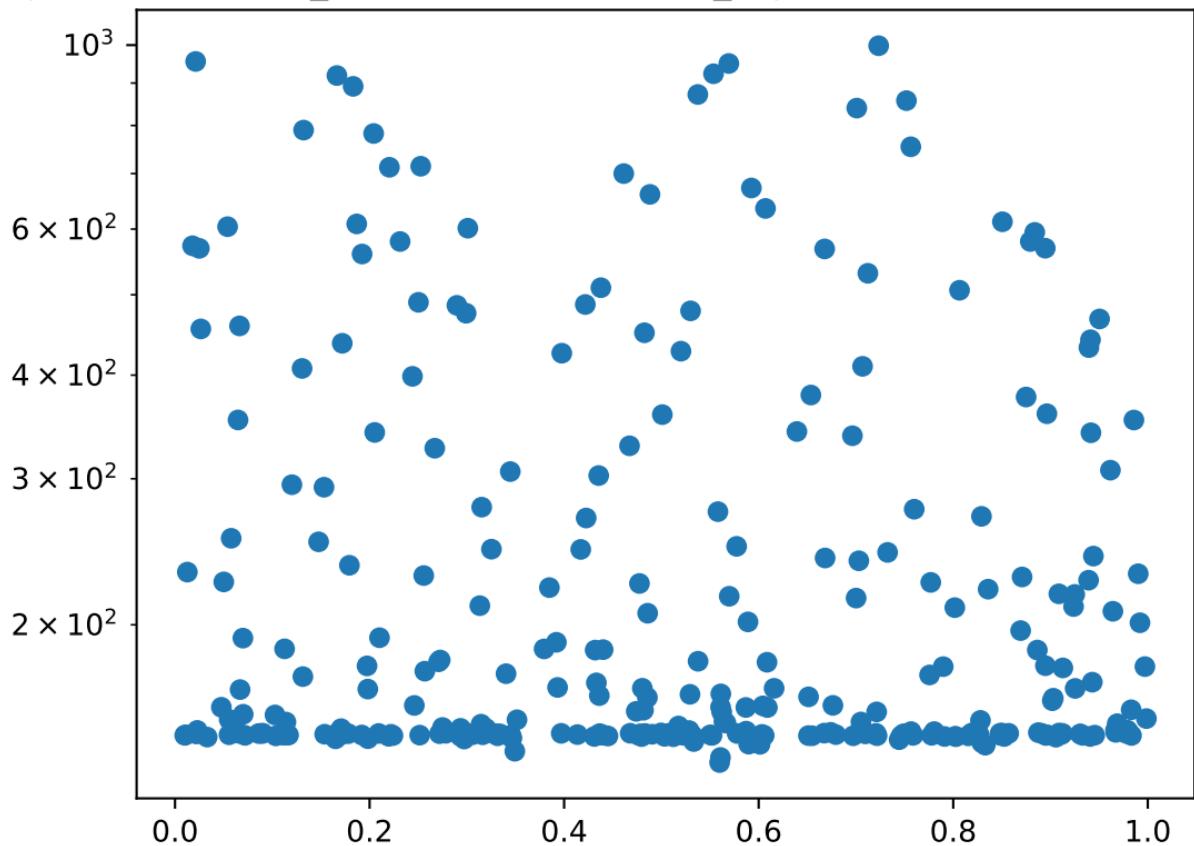
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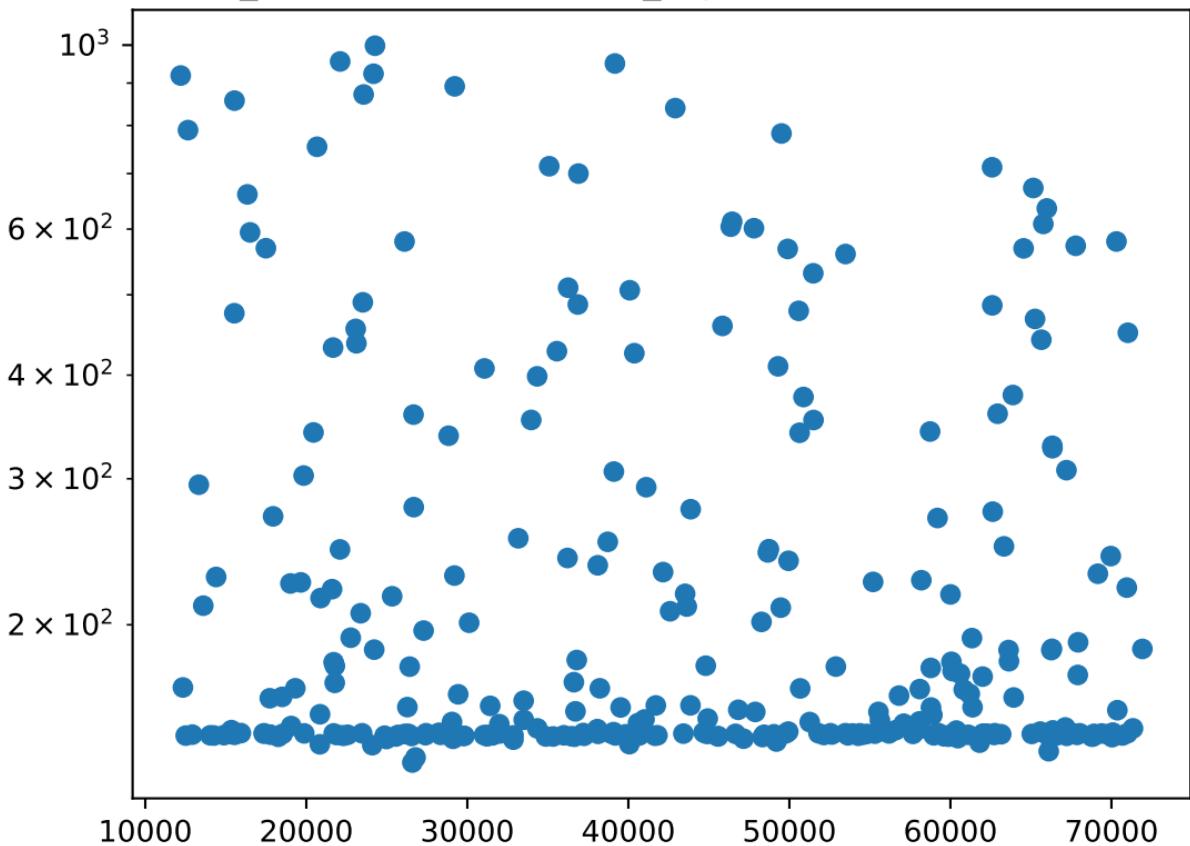
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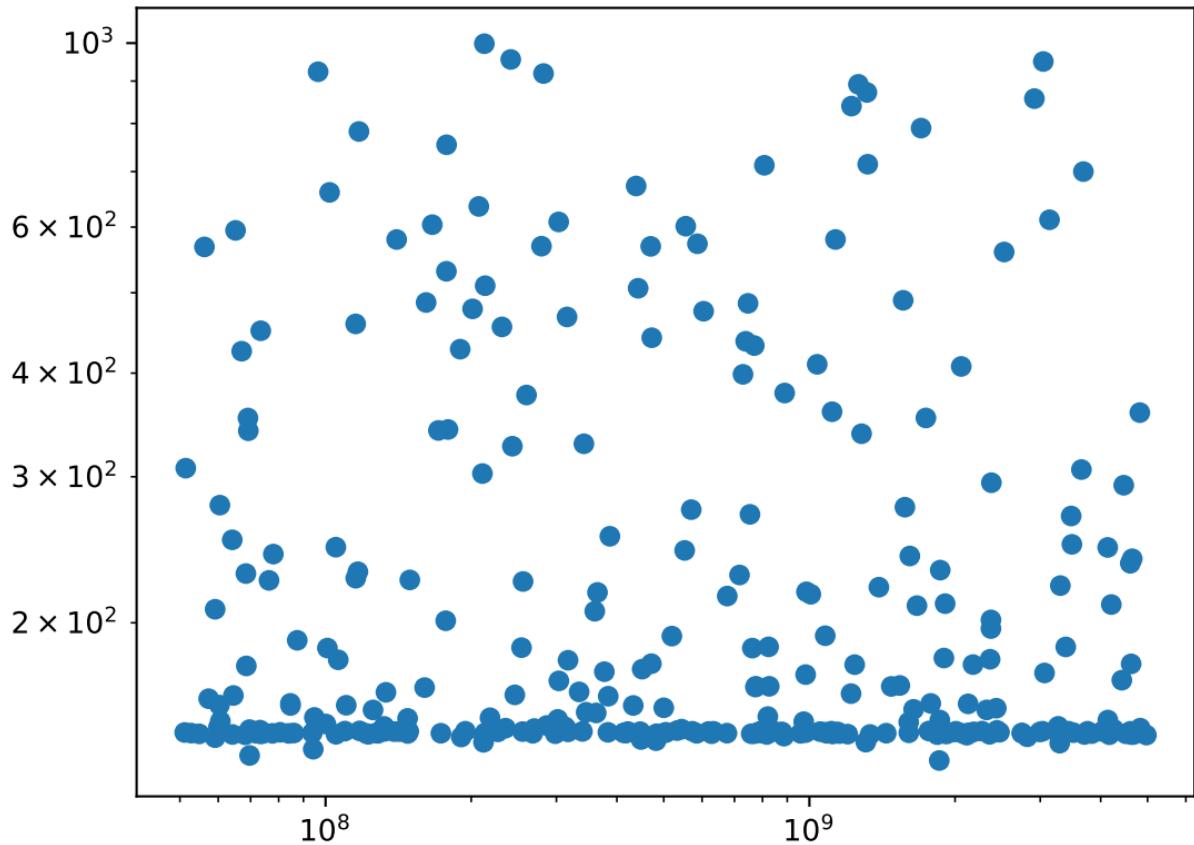
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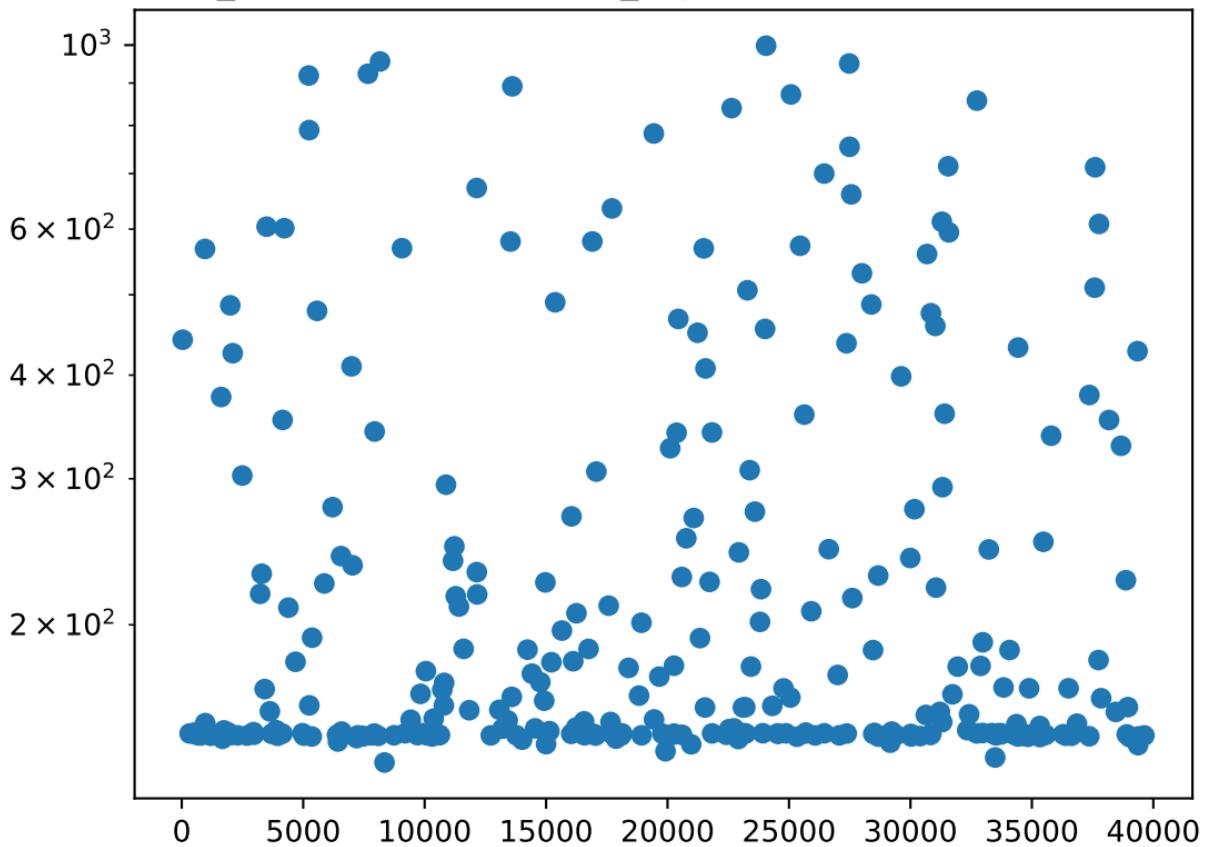
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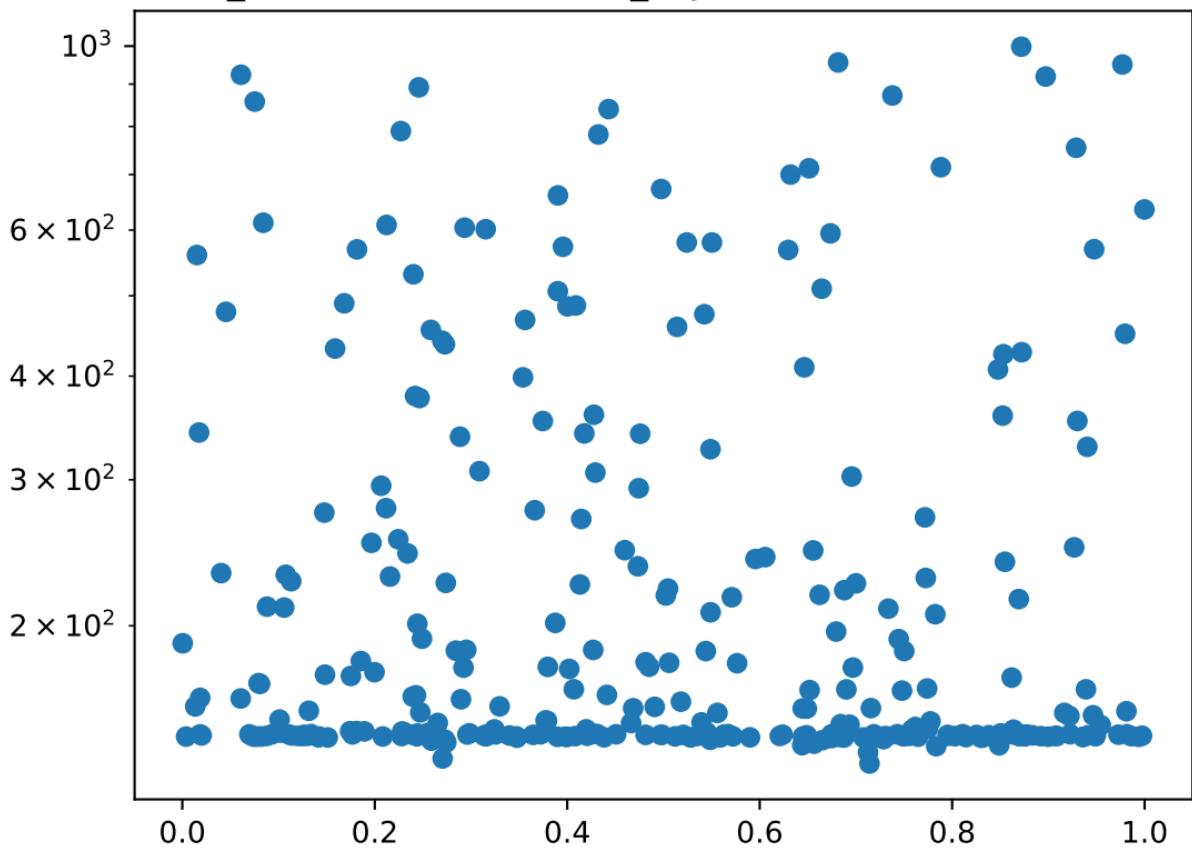
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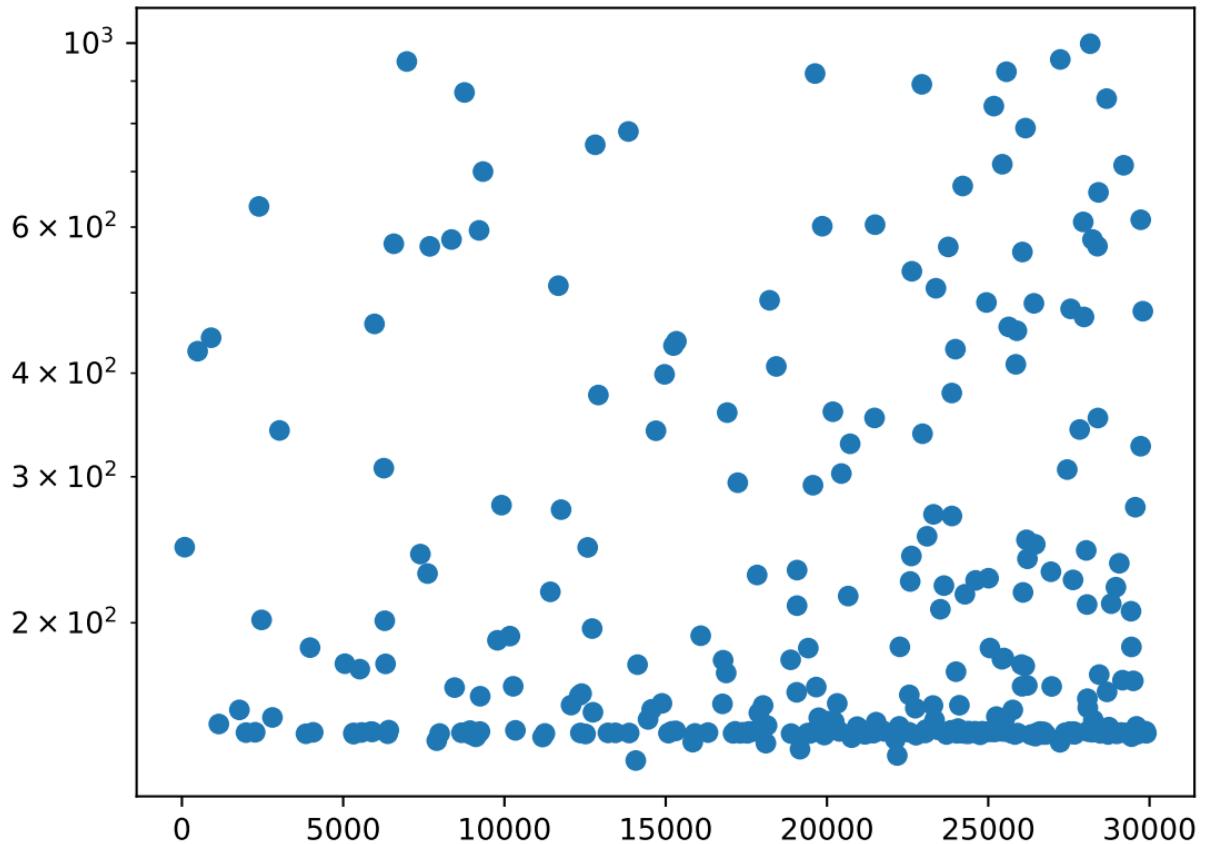
func low CPOX_Pt/Deutschmann2006_adjusted/5/CH4 + HOX + Pt <=> CH3)



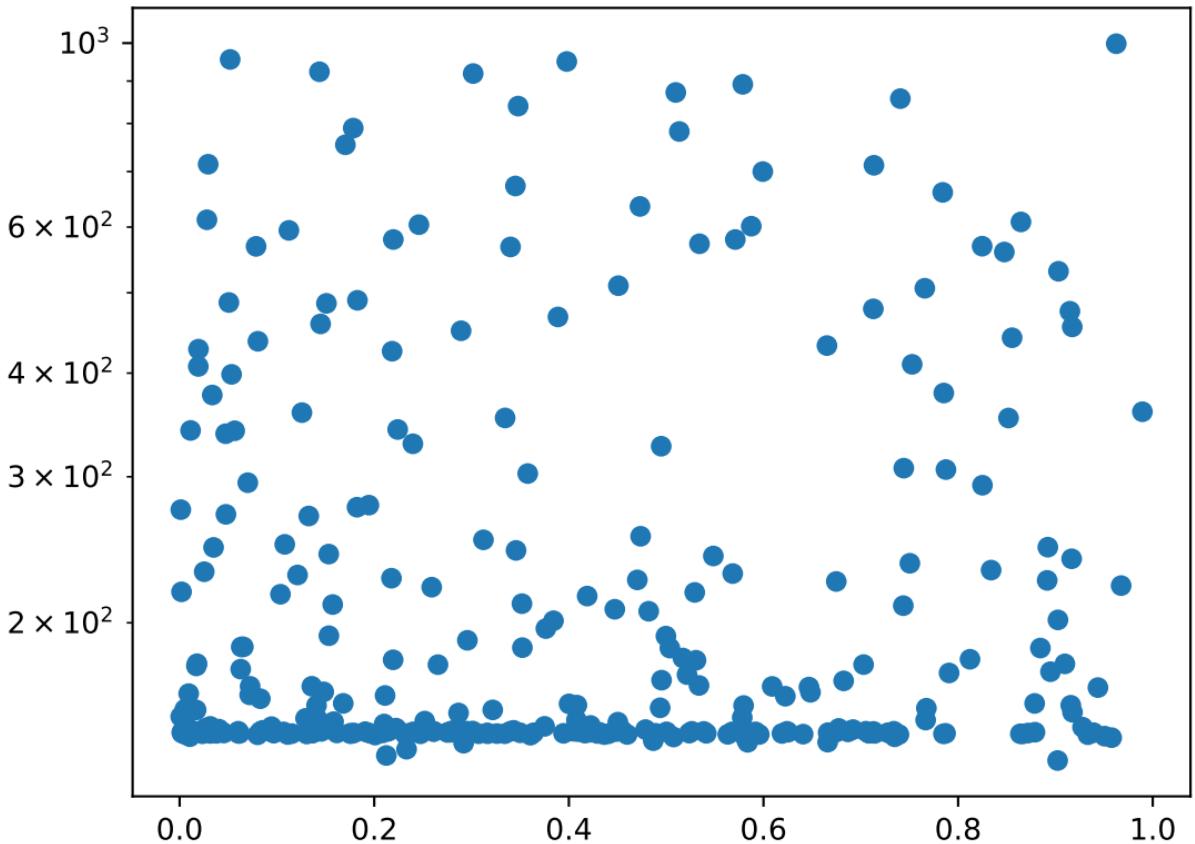
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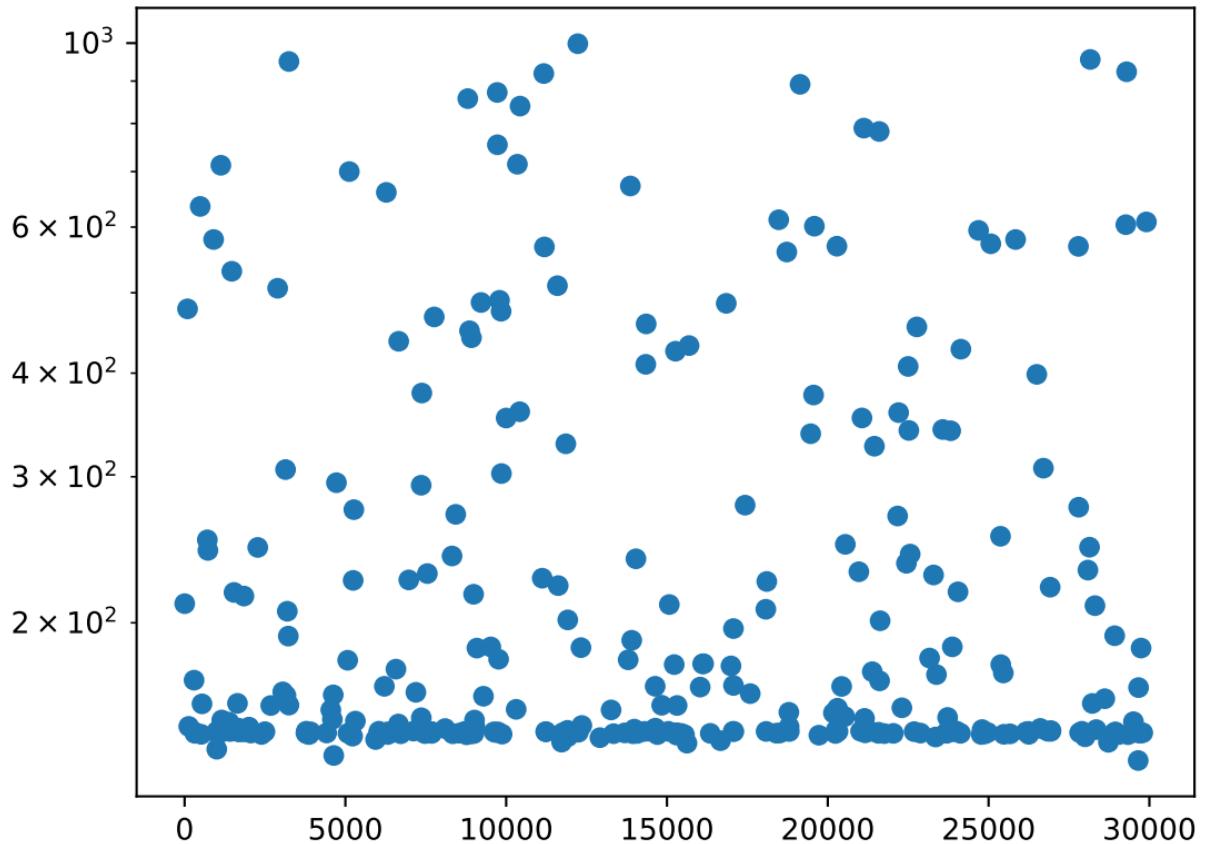
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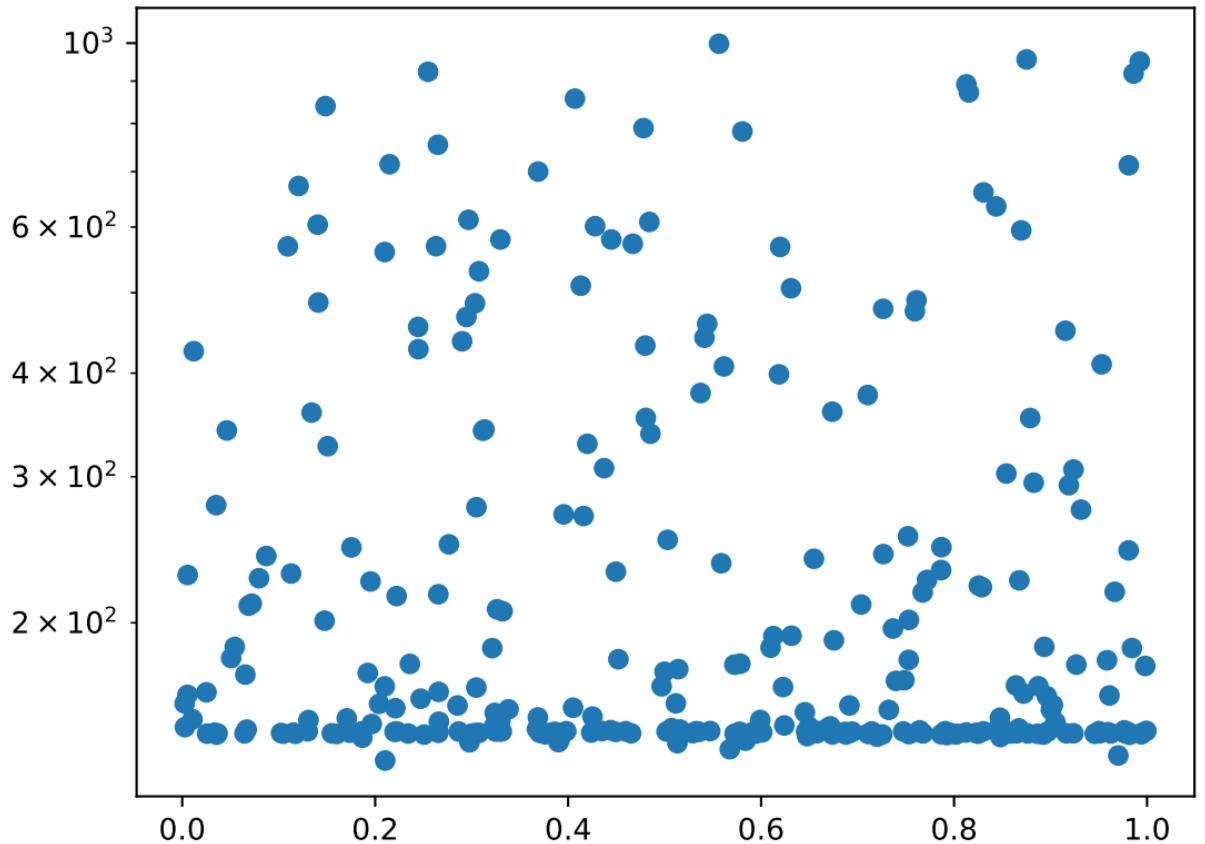
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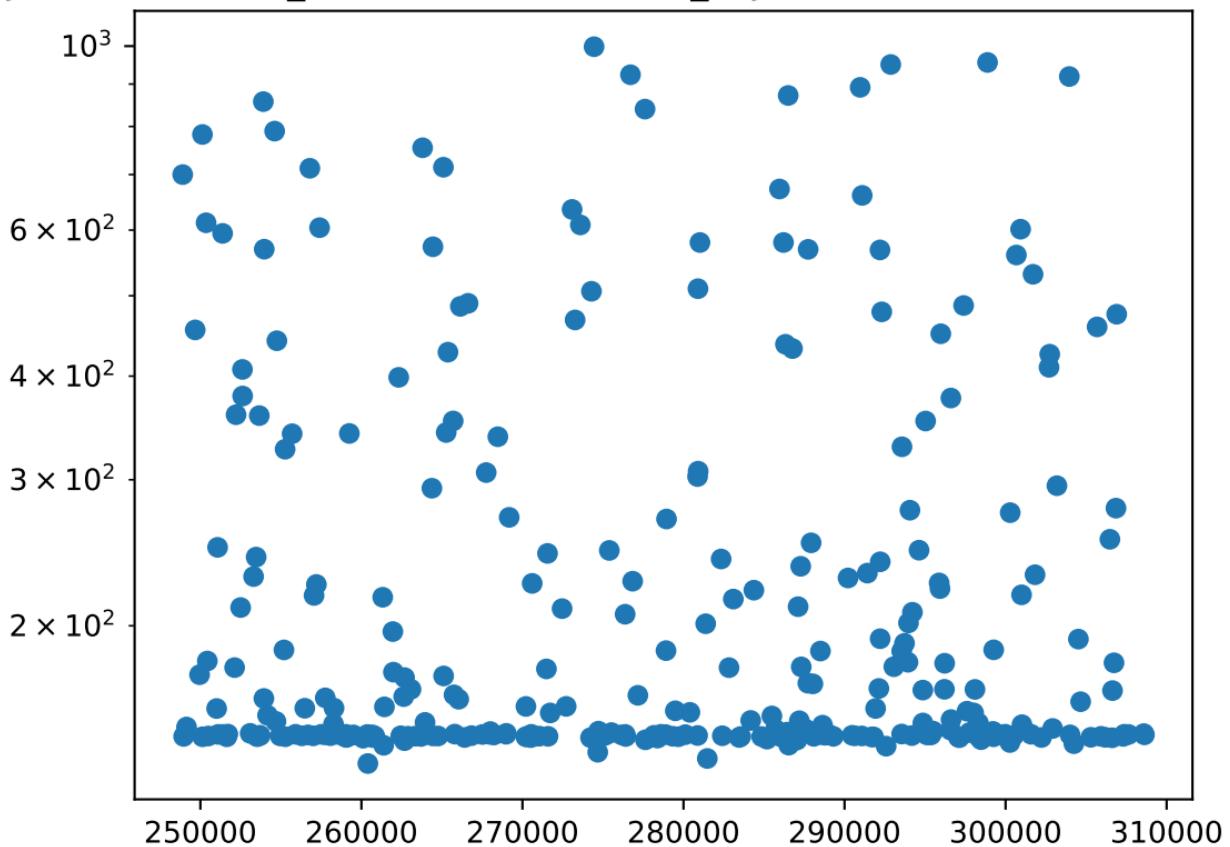
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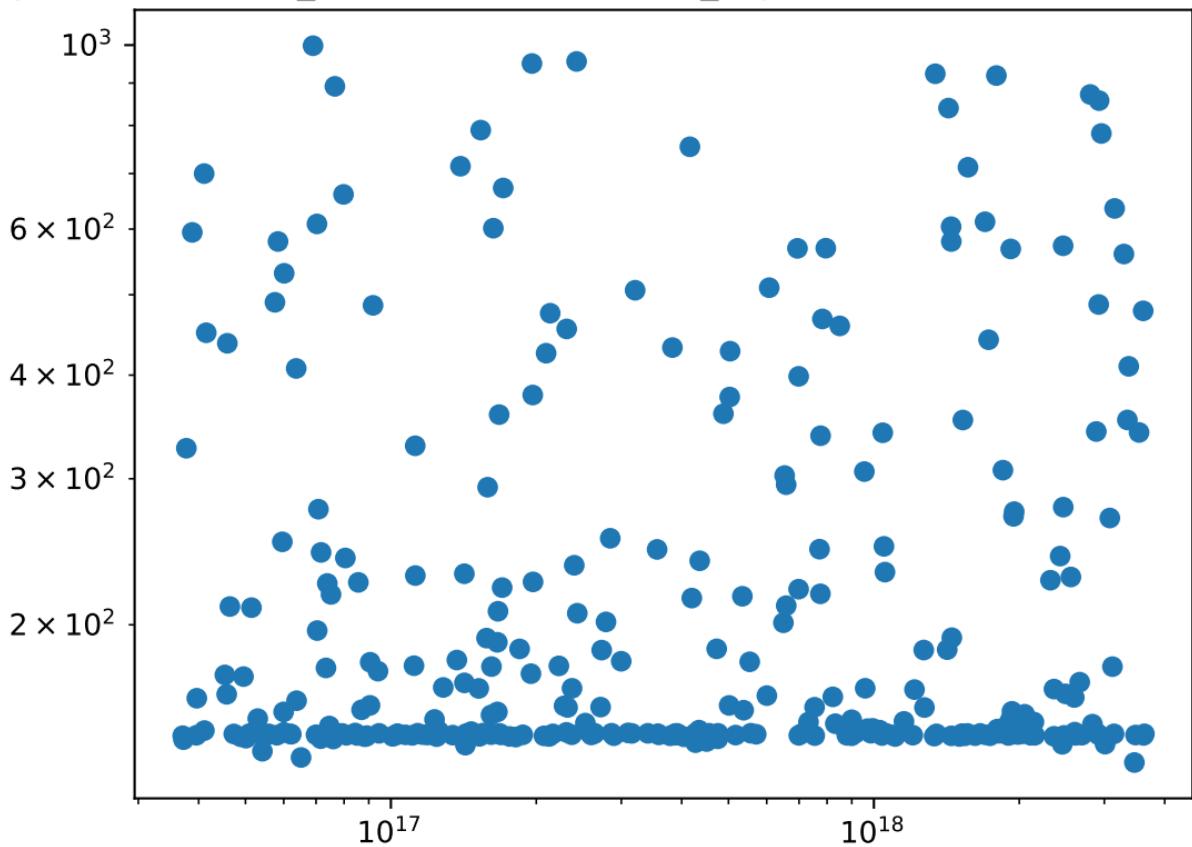
linear obj func low CPOX_Pt/Deutschmann2006_adjusted/7/CO2 + Pt <=> CO2



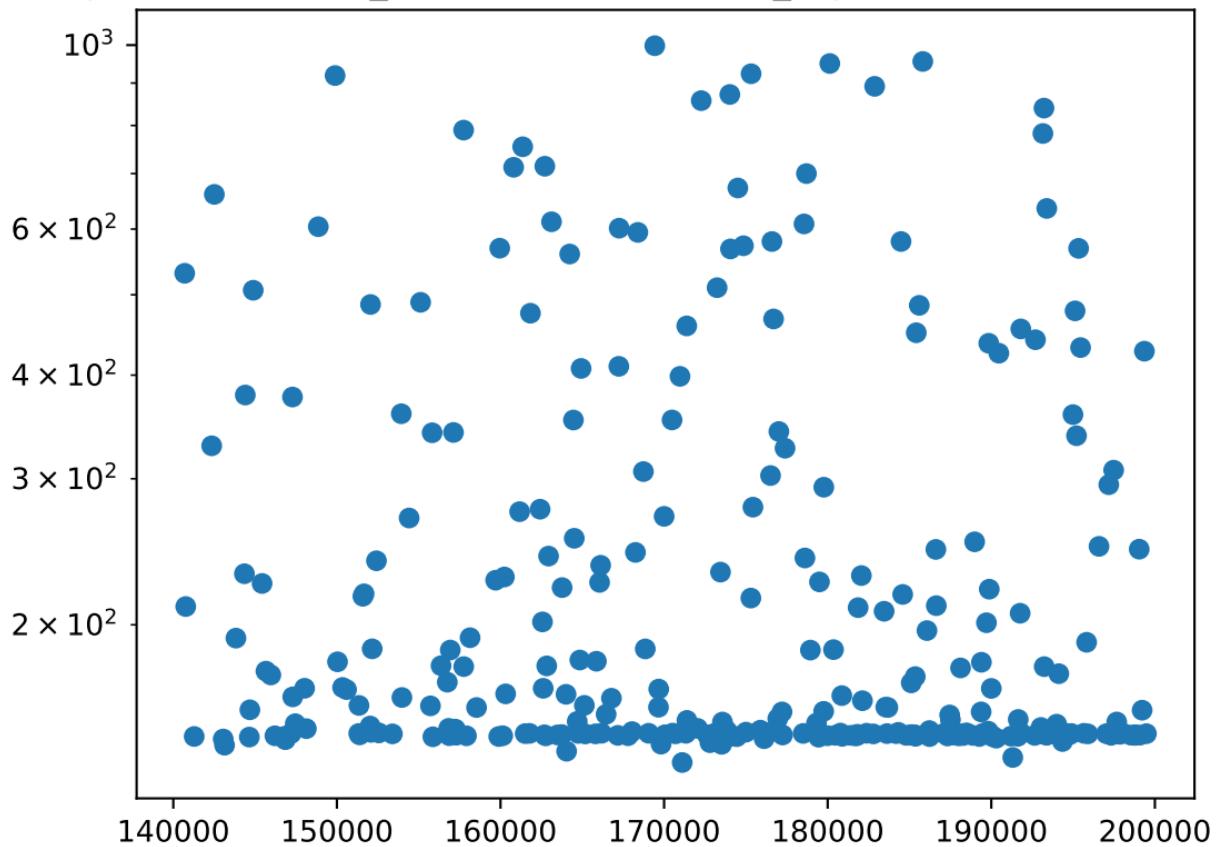
obj func low CPOX_Pt/Deutschmann2006_adjusted/10/OX + OX <=> Pt + Pt



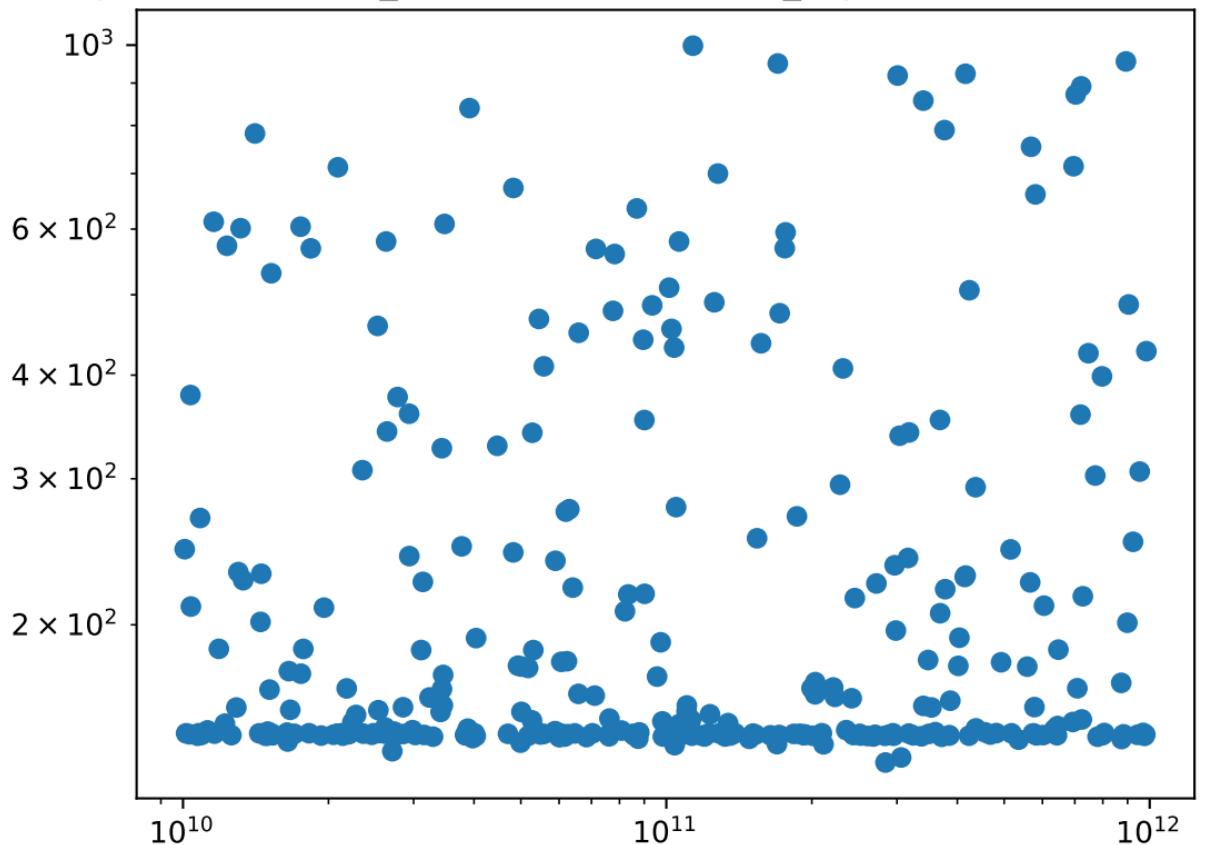
obj func low CPOX_Pt/Deutschmann2006_adjusted/10/OX + OX <=> Pt + Pt



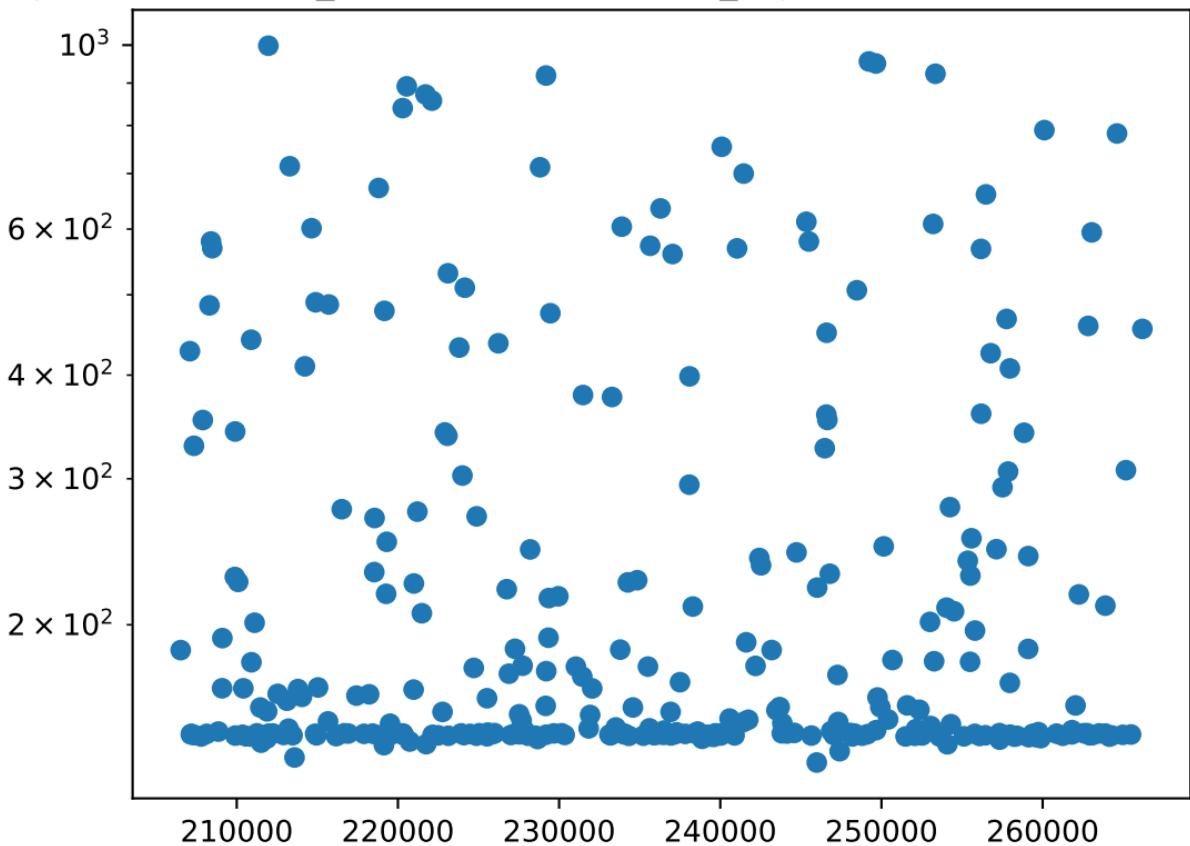
near obj func low CPOX_Pt/Deutschmann2006_adjusted/12/OCX <=> CO + P



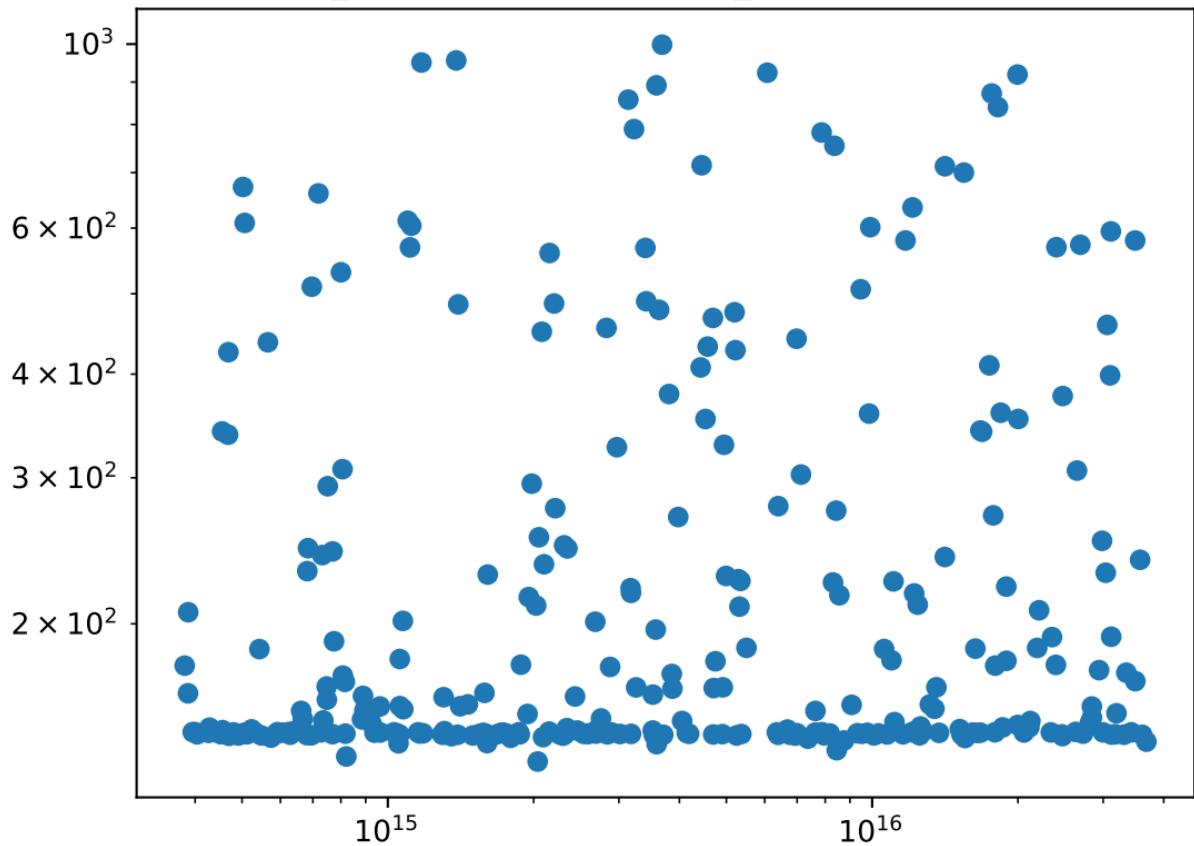
near obj func low CPOX_Pt/Deutschmann2006_adjusted/12/OCX <=> CO + F



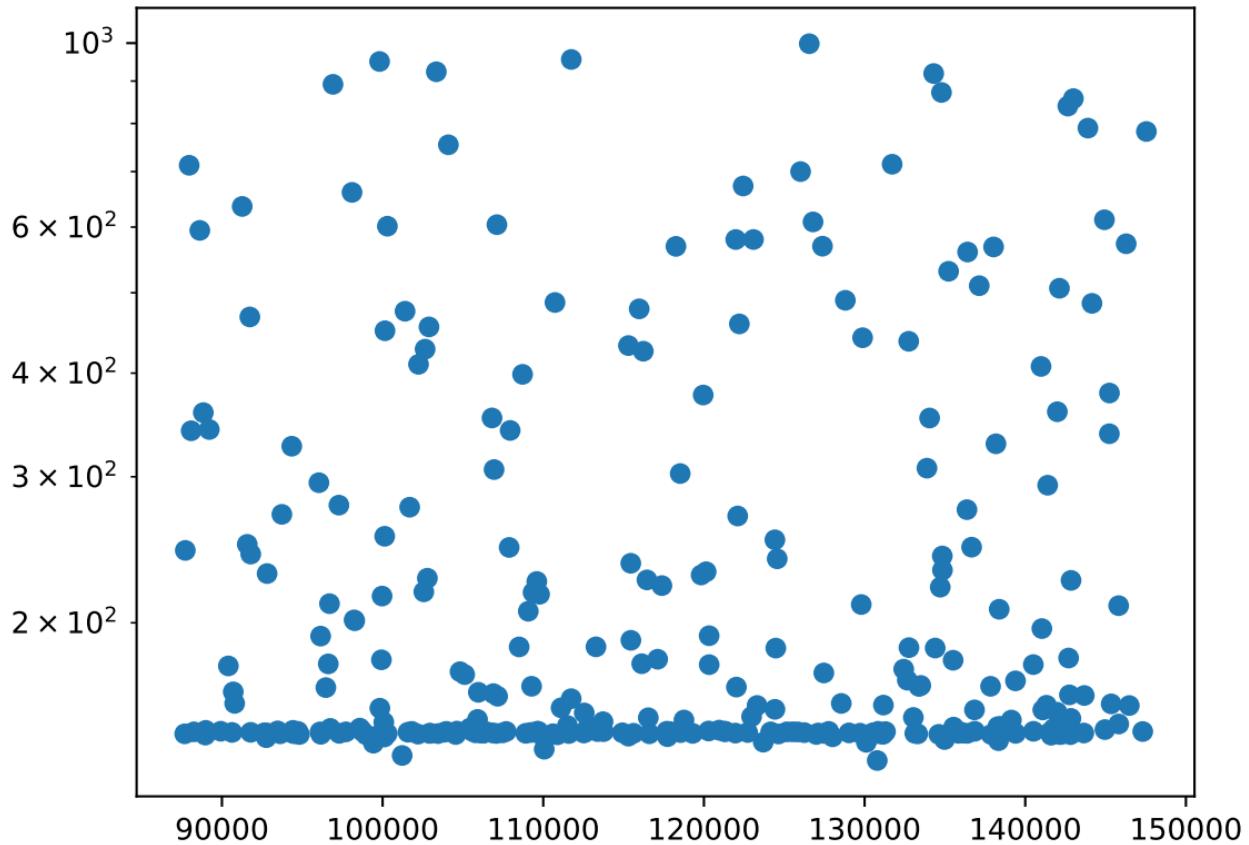
ar obj func low CPOX_Pt/Deutschmann2006_adjusted/15/OCX + Pt <=> CX +



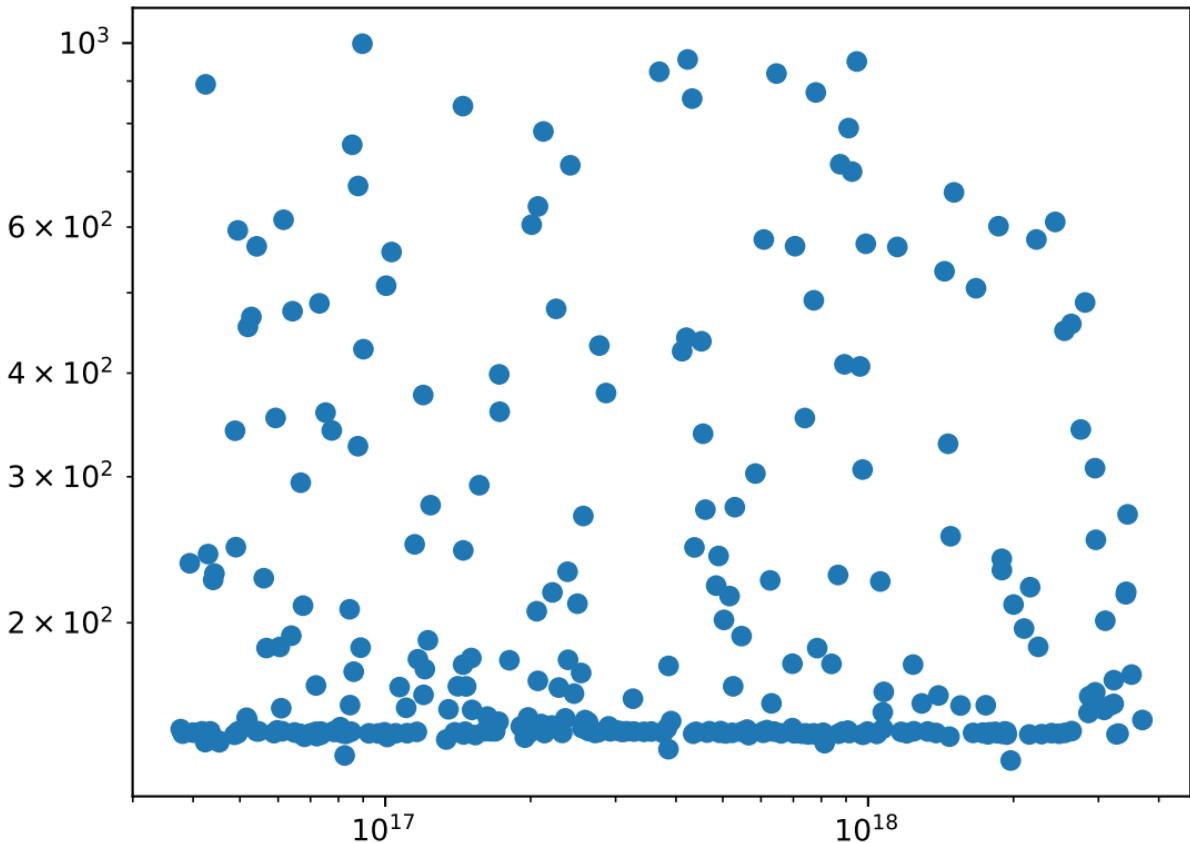
var obj func low CPOX_Pt/Deutschmann2006_adjusted/15/OCX + Pt <=> CX +



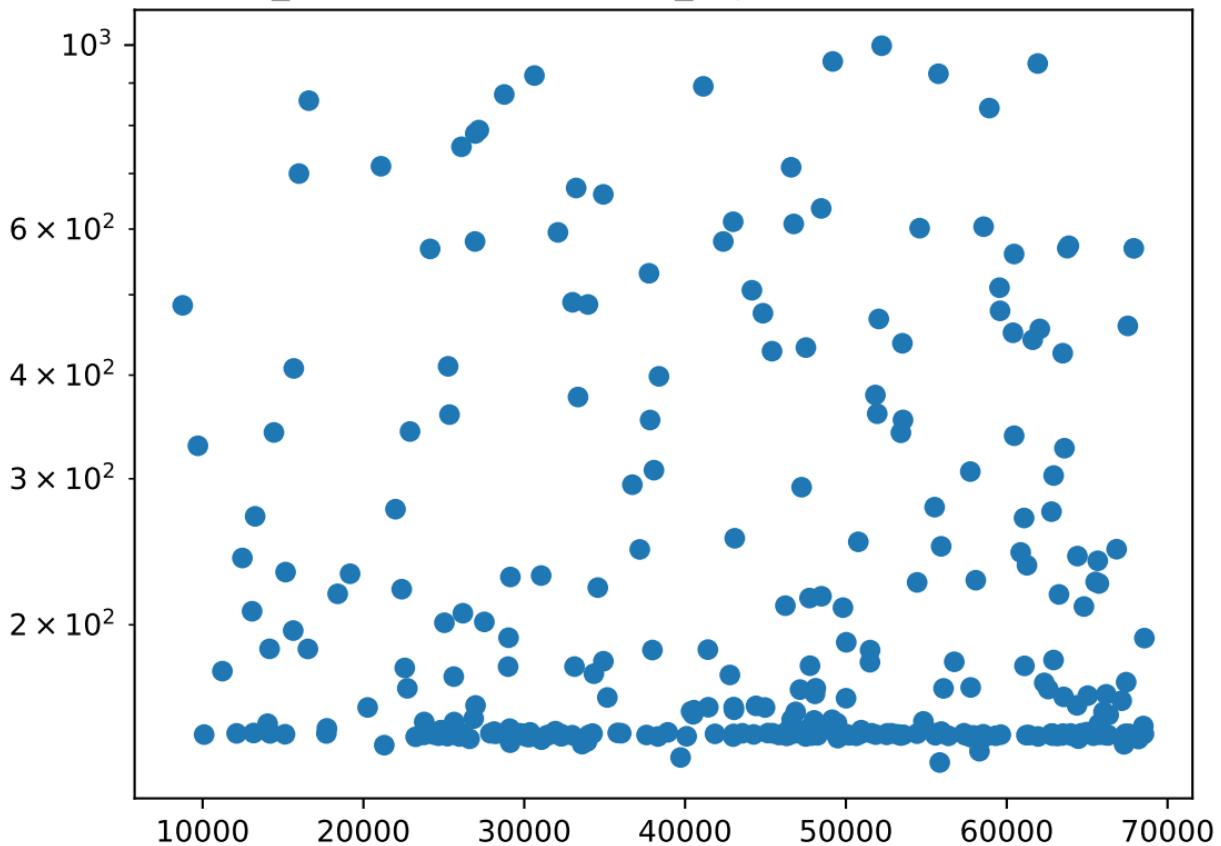
obj func low CPOX_Pt/Deutschmann2006_adjusted/16/OCX + OX <=> CO2X



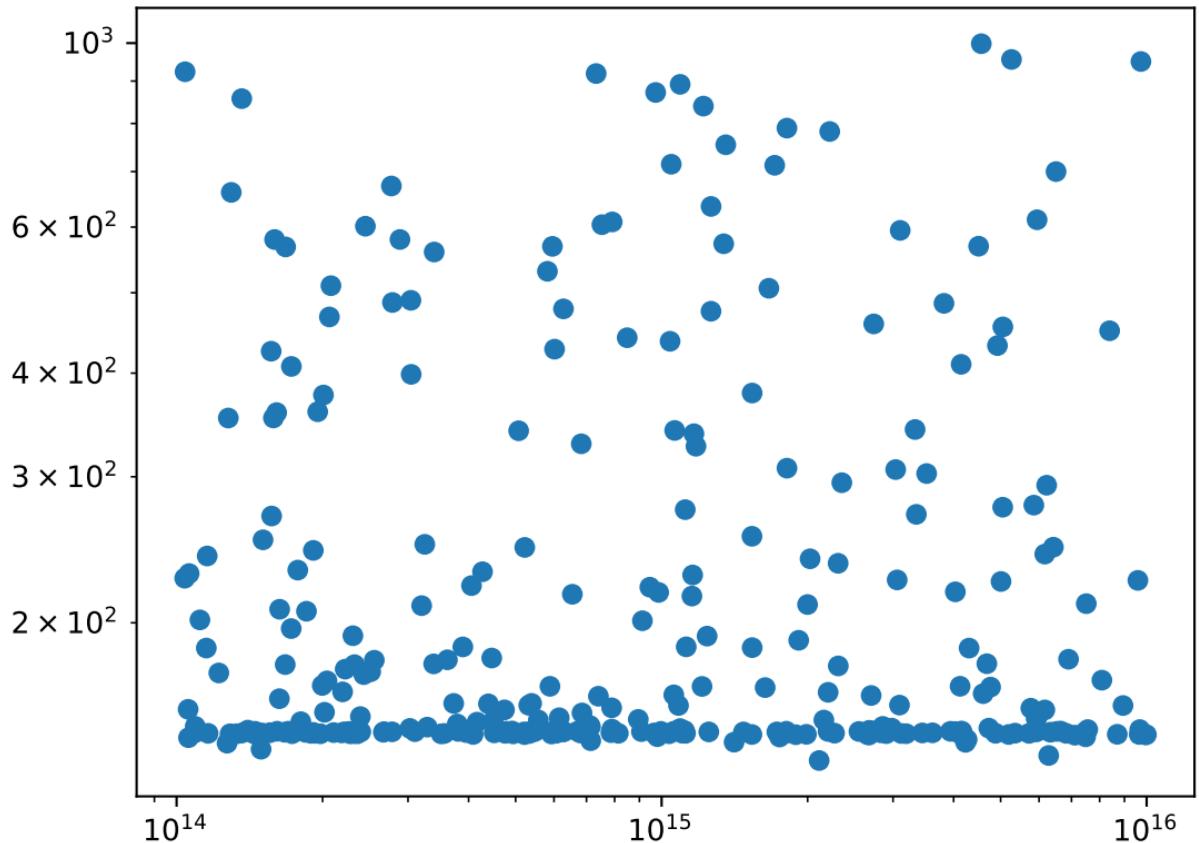
obj func low CPOX_Pt/Deutschmann2006_adjusted/16/OCX + OX <=> CO2X



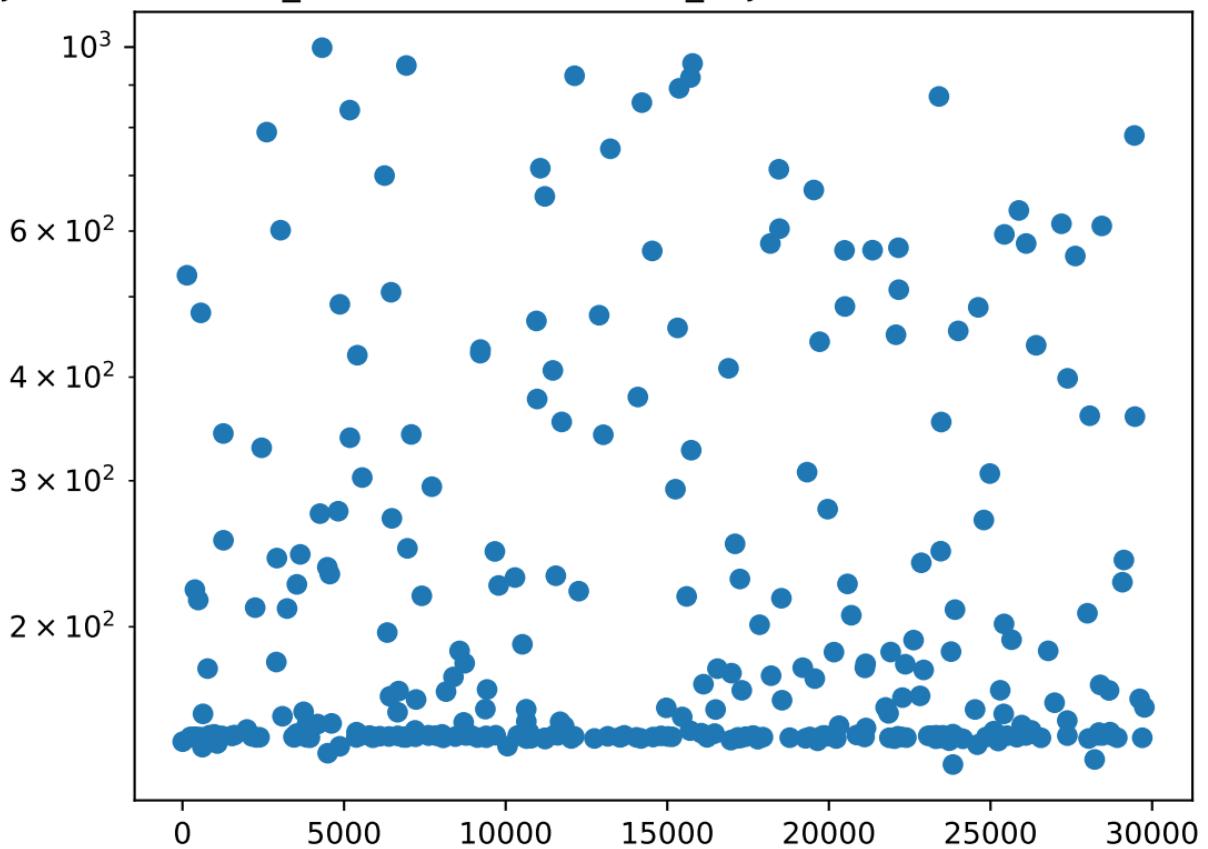
obj func low CPOX_Pt/Deutschmann2006_adjusted/18/OCX + HOX <=> CO2X



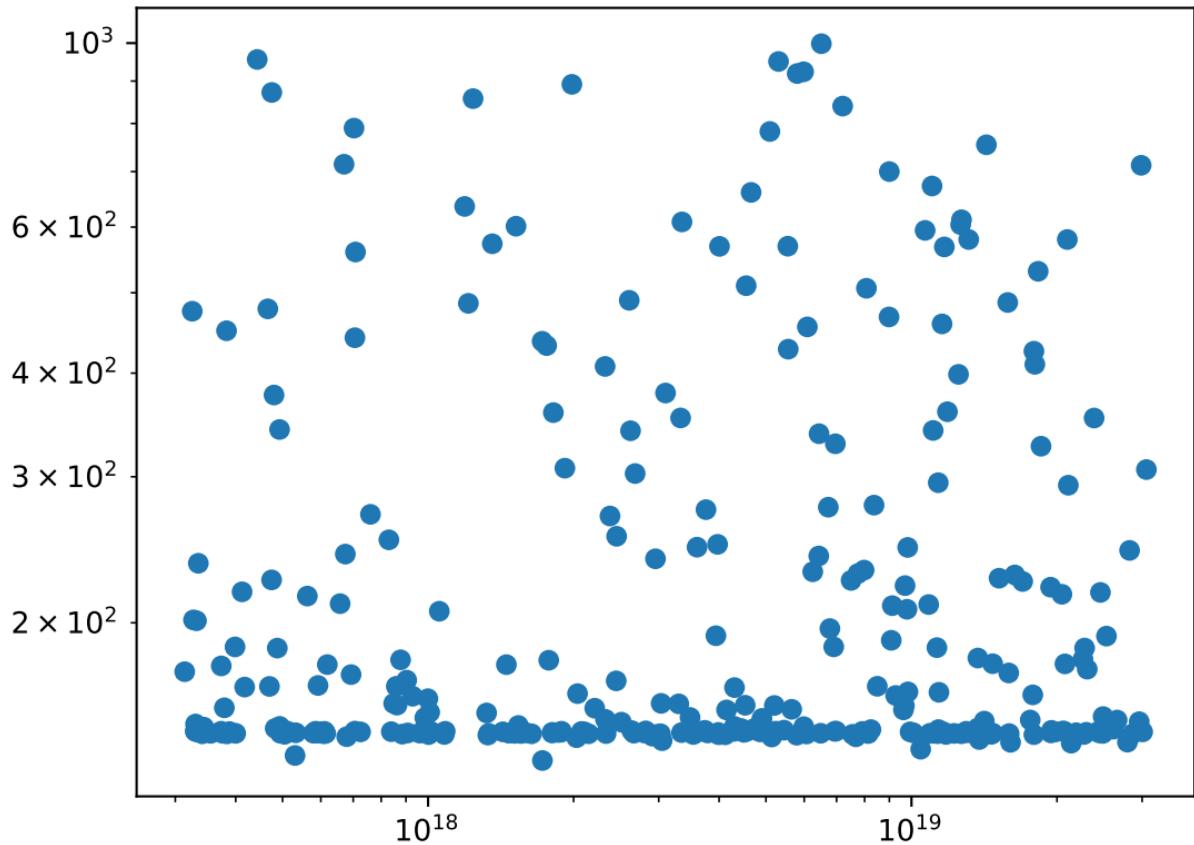
obj func low CPOX_Pt/Deutschmann2006_adjusted/18/OCX + HOX <=> CO2



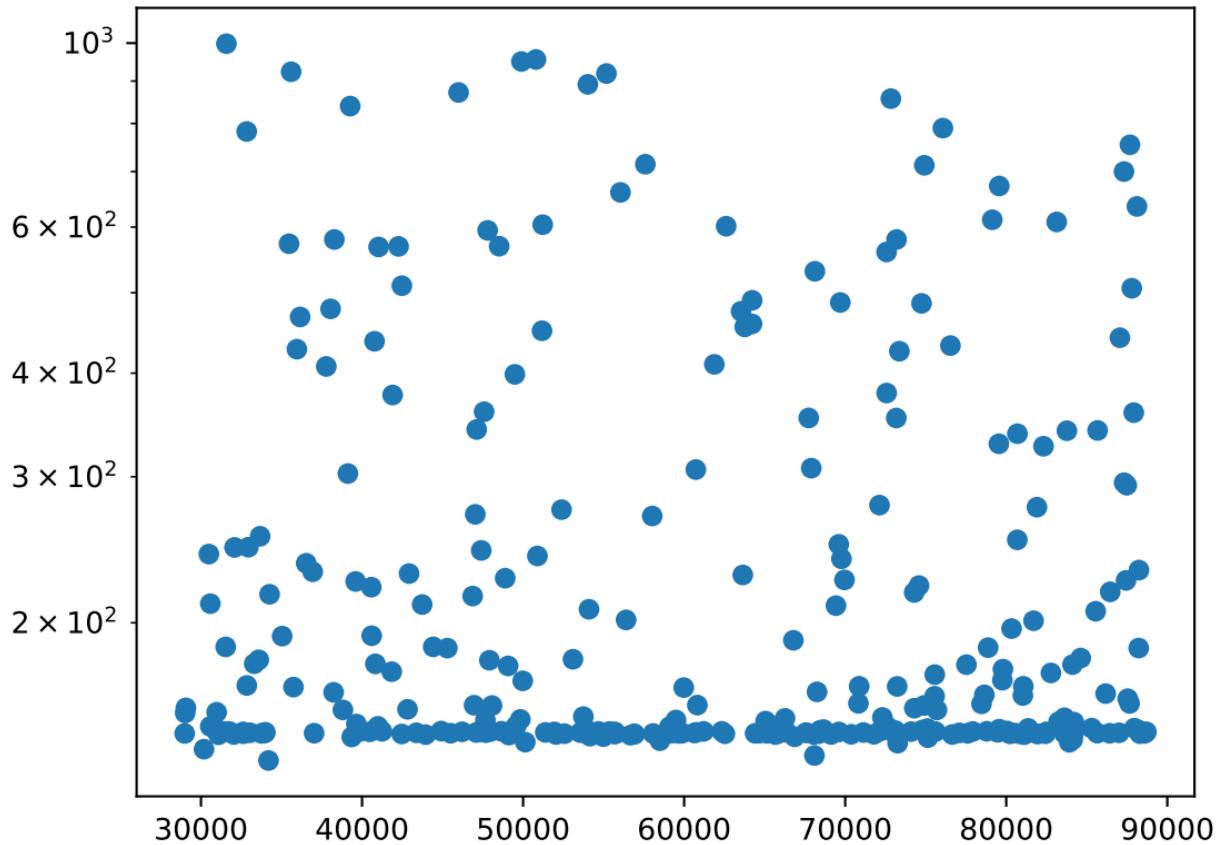
obj func low CPOX_Pt/Deutschmann2006_adjusted/21/CH₂X + HX <=> CH₃X



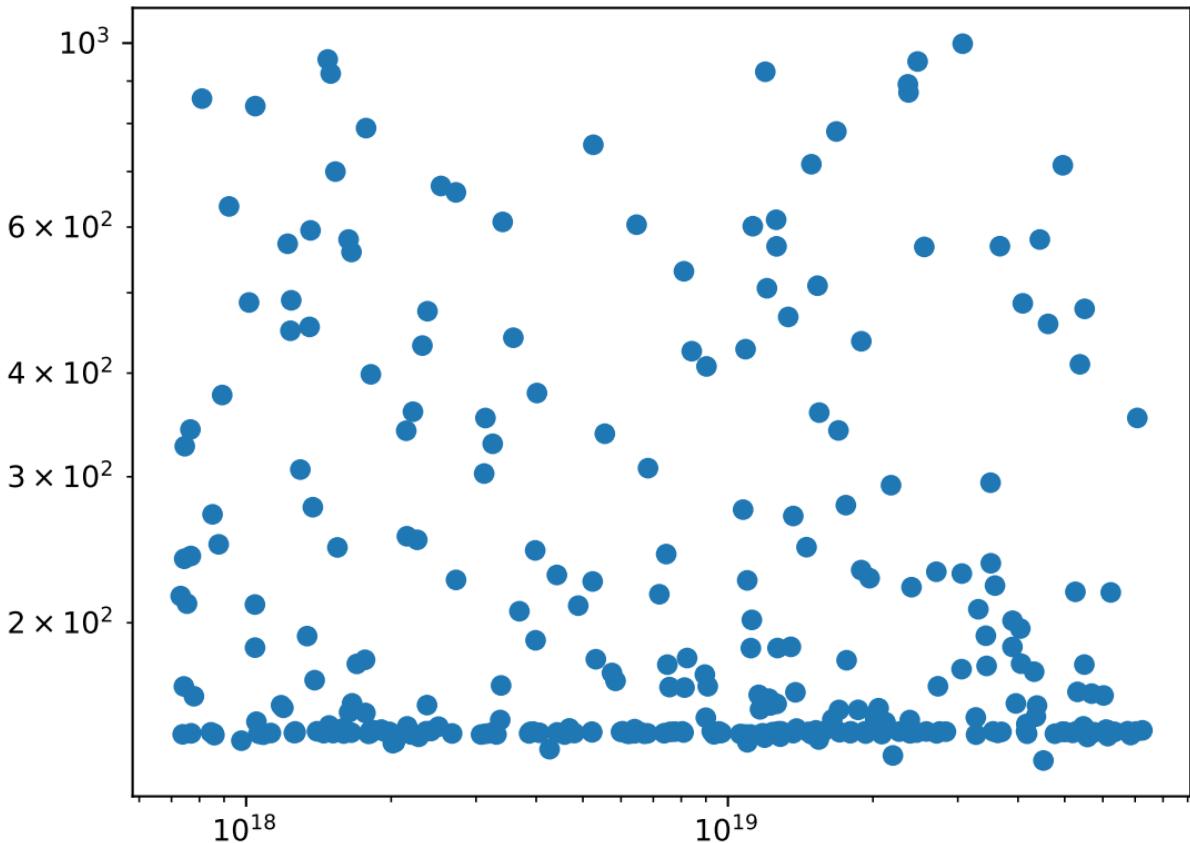
obj func low CPOX_Pt/Deutschmann2006_adjusted/21/CH₂X + HX <=> CH₃



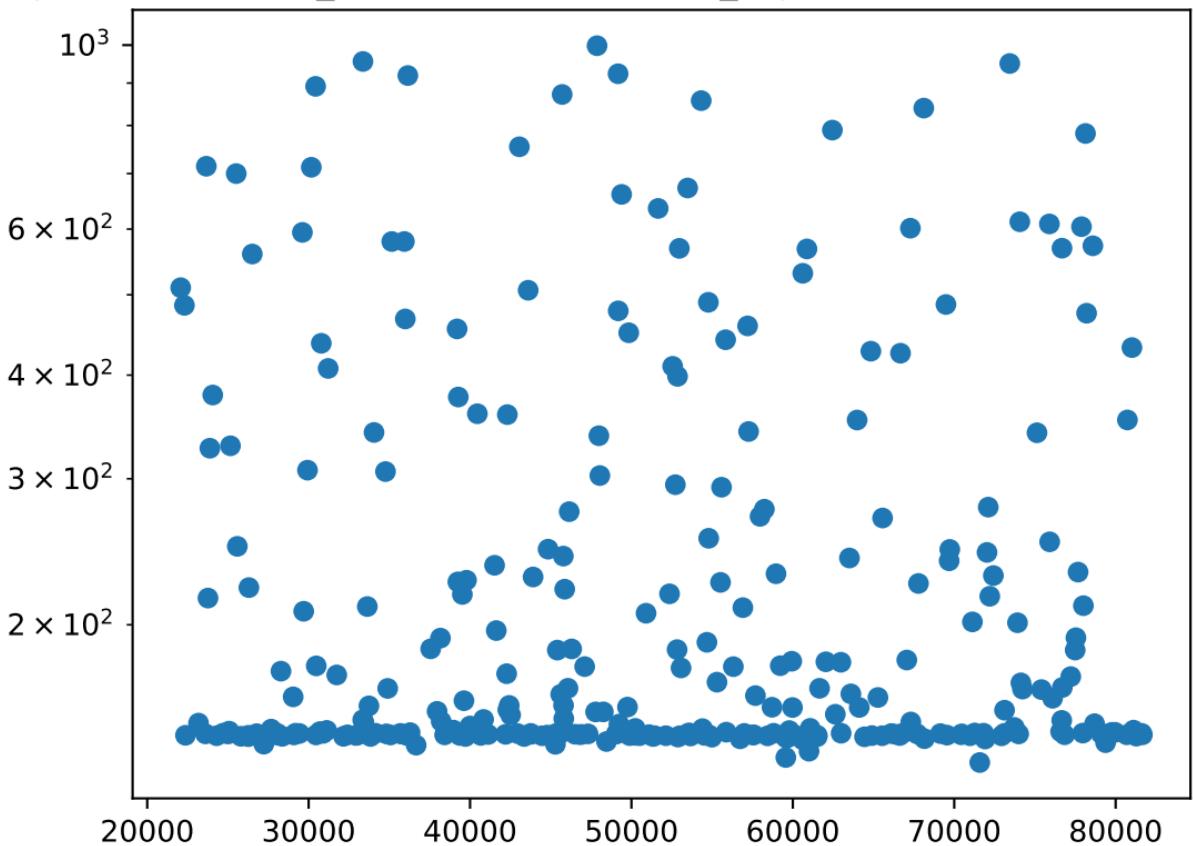
obj func low CPOX_Pt/Deutschmann2006_adjusted/22/CH2X + Pt <=> CHX



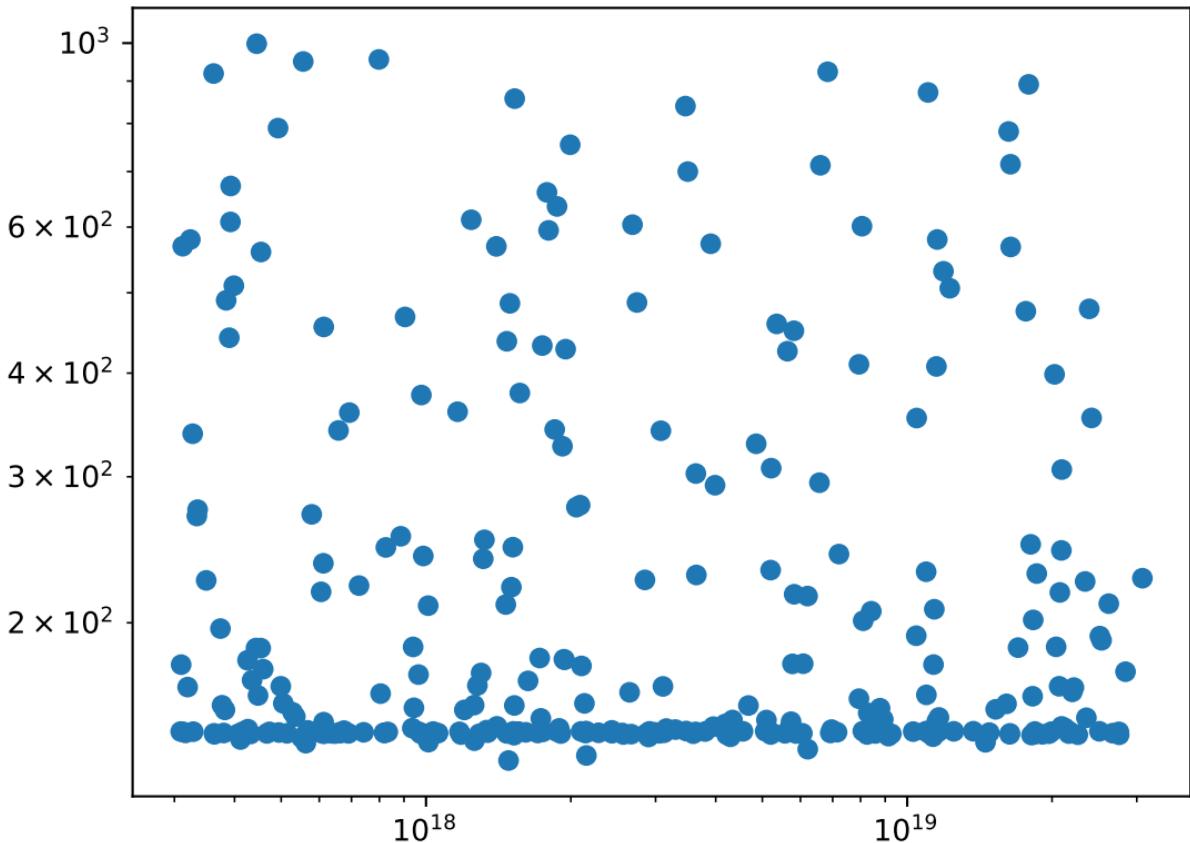
obj func low CPOX_Pt/Deutschmann2006_adjusted/22/CH2X + Pt <=> CHX



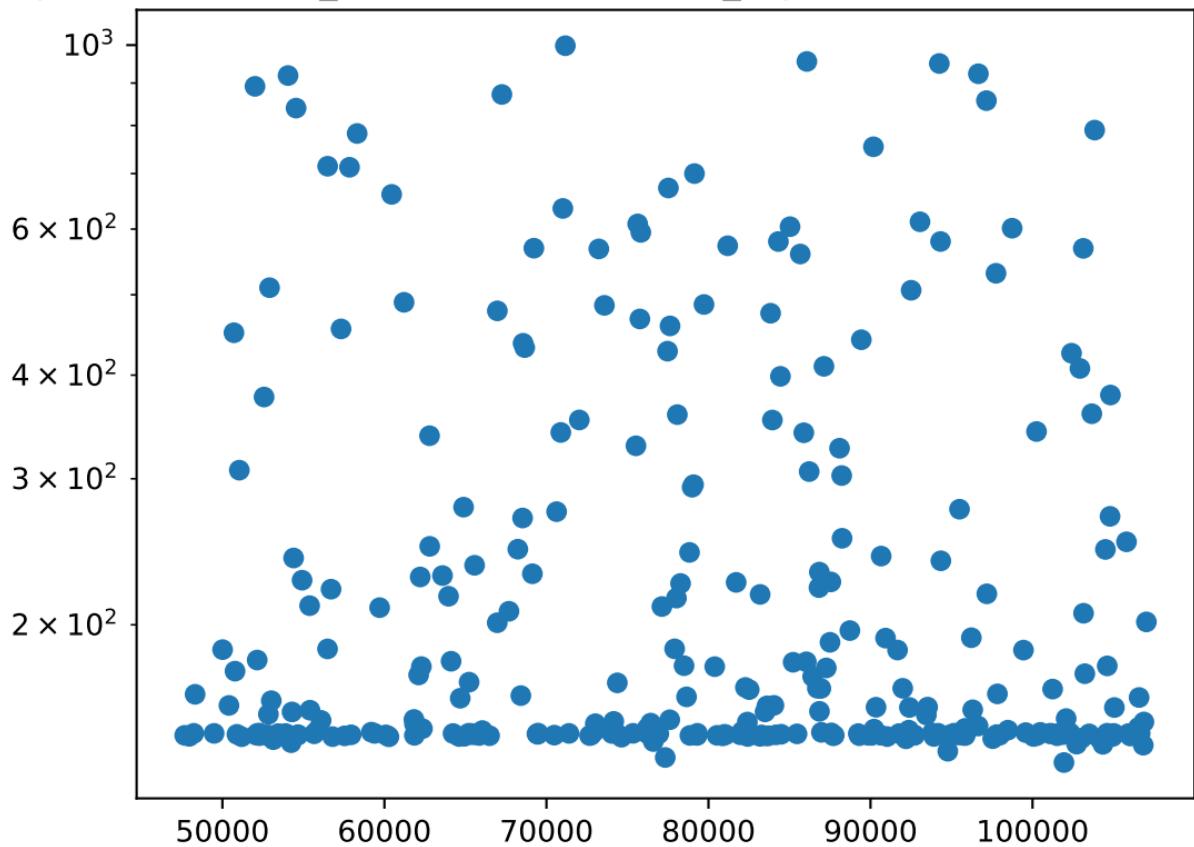
ur obj func low CPOX_Pt/Deutschmann2006_adjusted/24/CHX + Pt <=> CX +



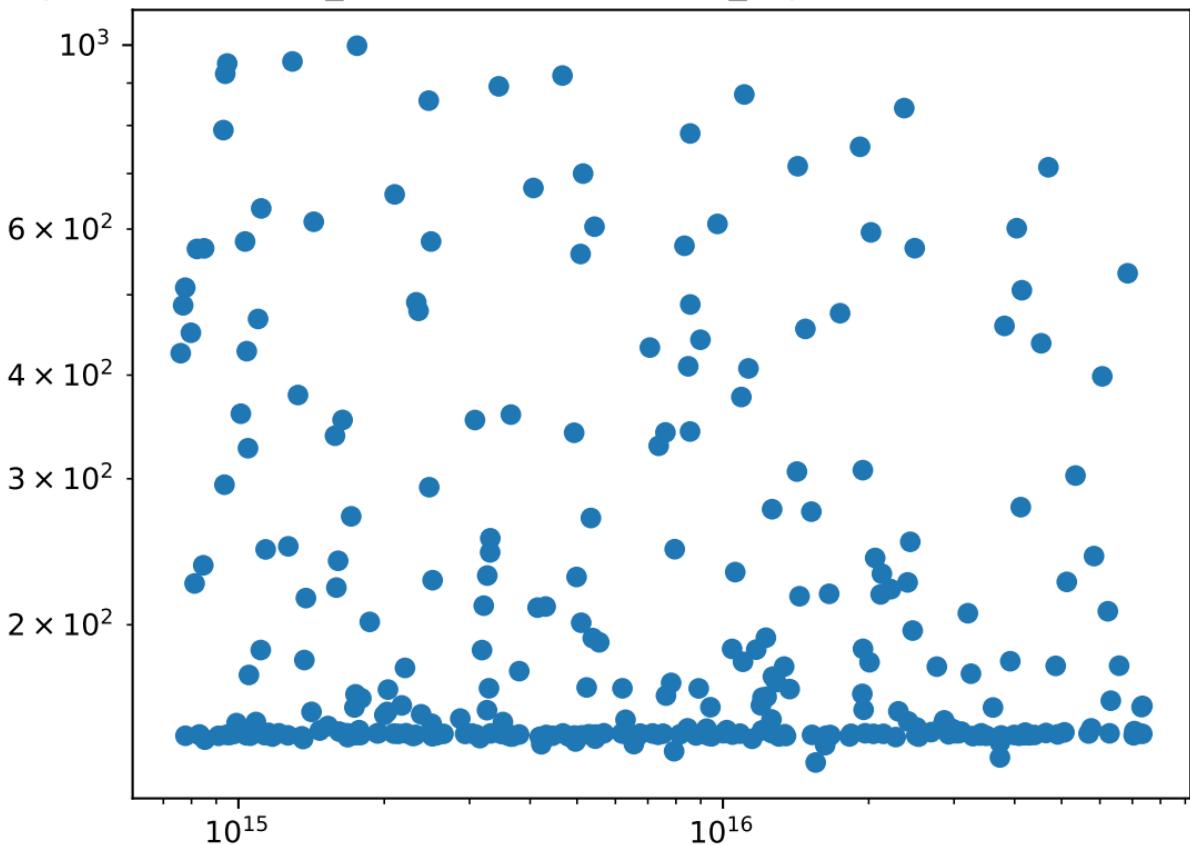
var obj func low CPOX_Pt/Deutschmann2006_adjusted/24/CHX + Pt <=> CX +



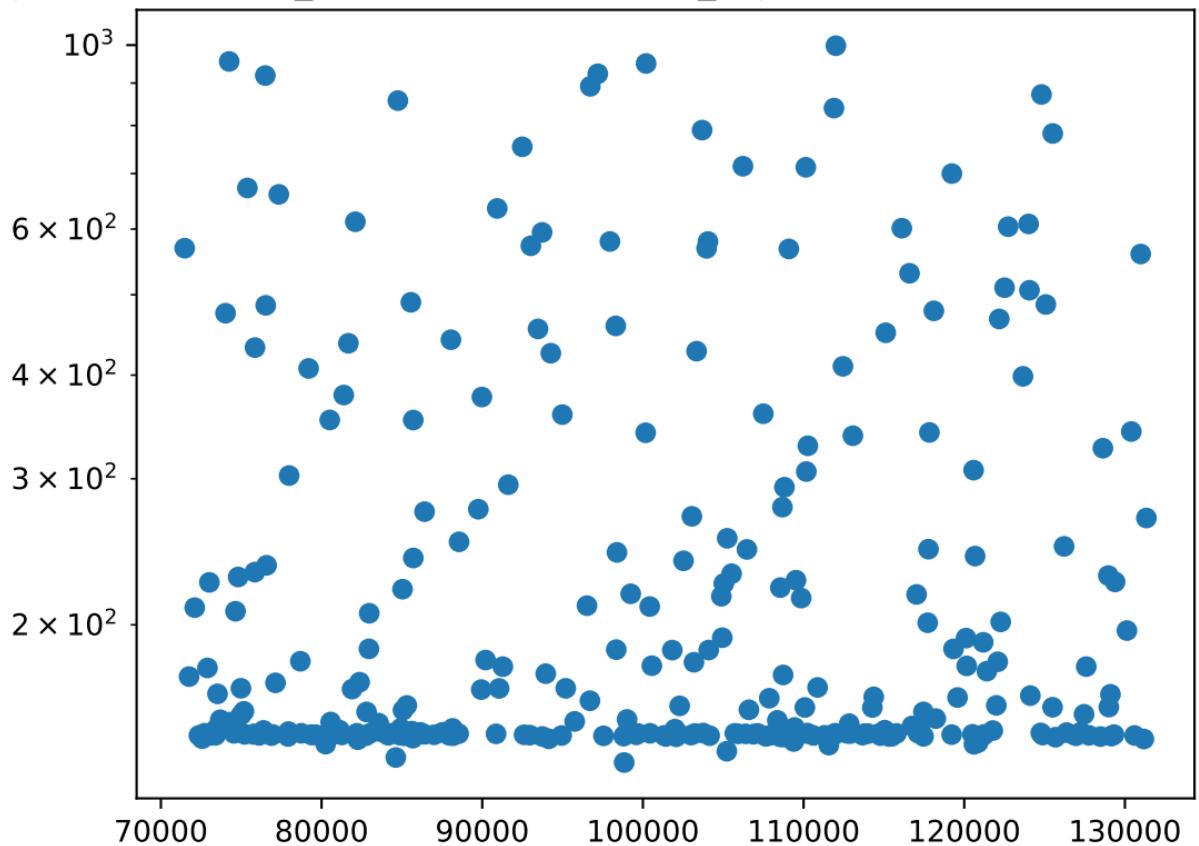
r obj func low CPOX_Pt/Deutschmann2006_adjusted/27/HOX + Pt <=> HX +



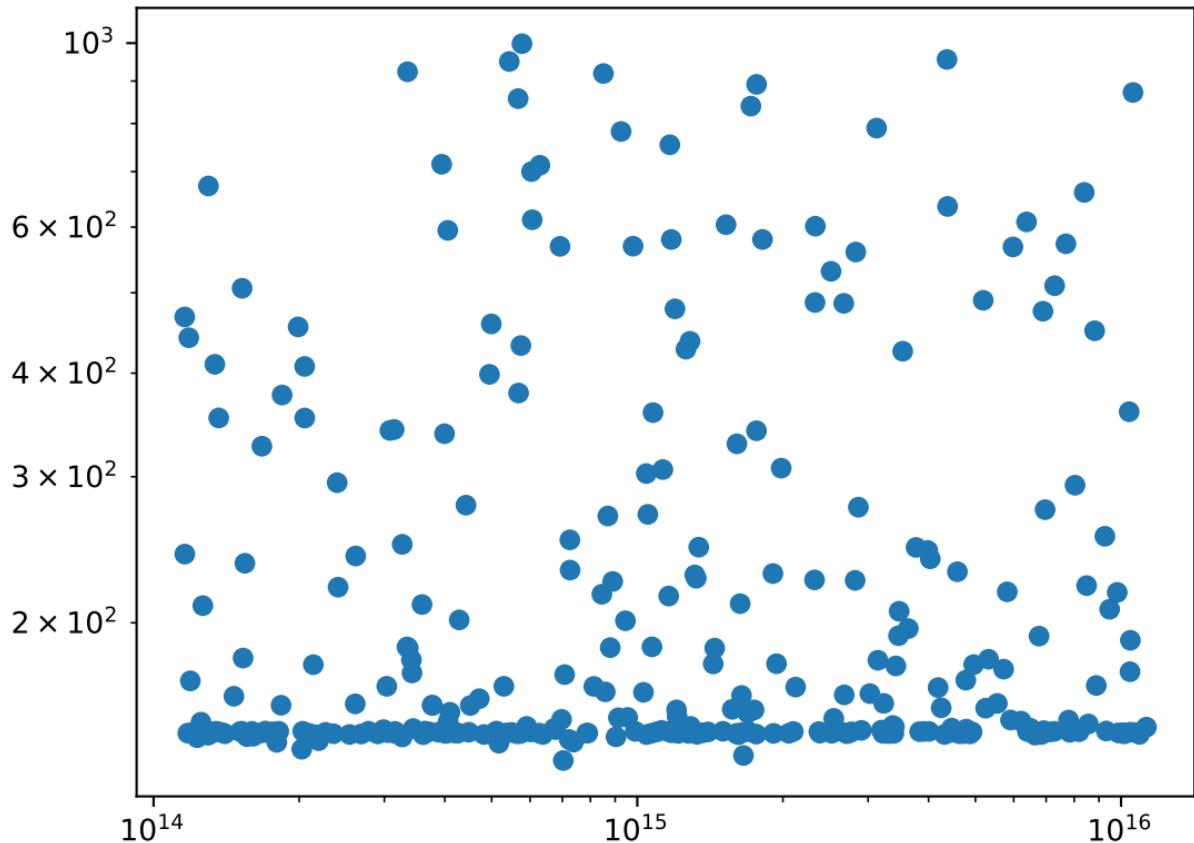
var obj func low CPOX_Pt/Deutschmann2006_adjusted/27/HOX + Pt <=> HX +



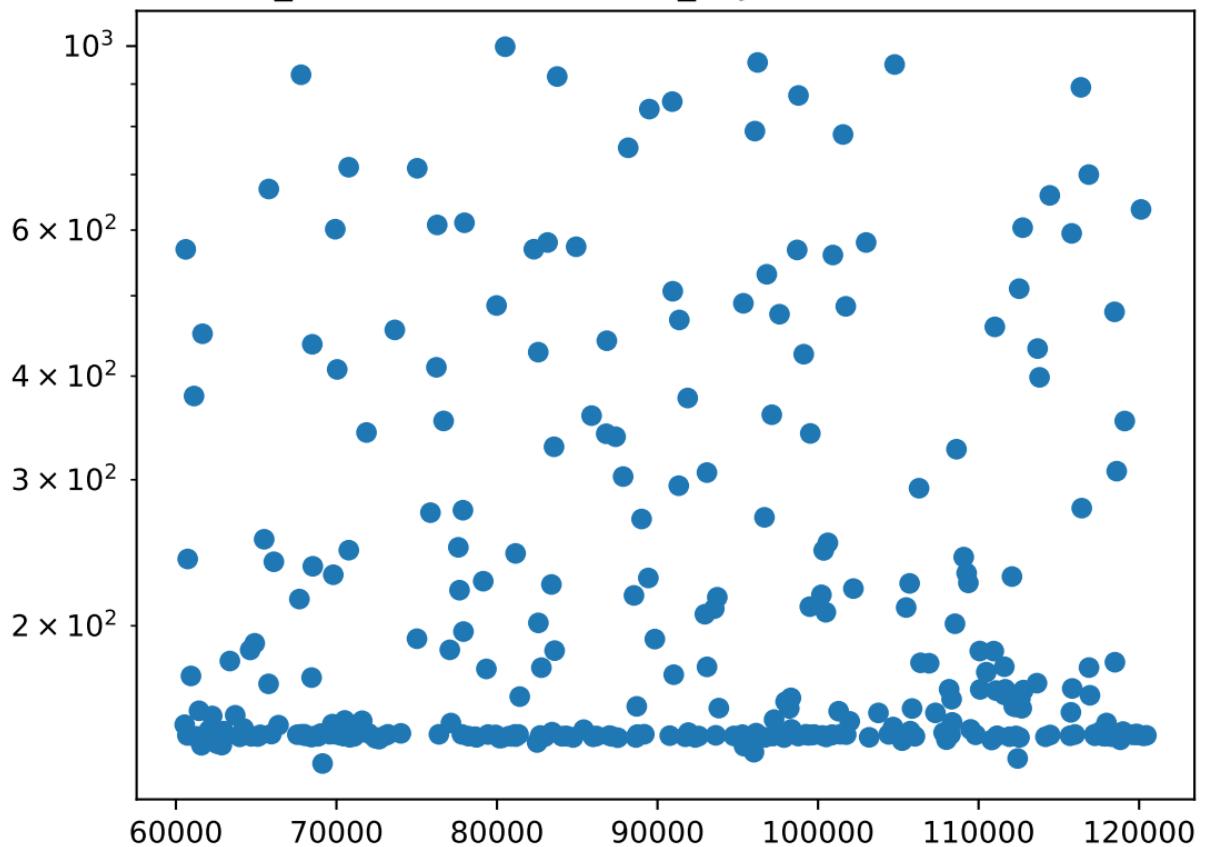
obj func low CPOX_Pt/Deutschmann2006_adjusted/28/H2OX + Pt <=> HX +



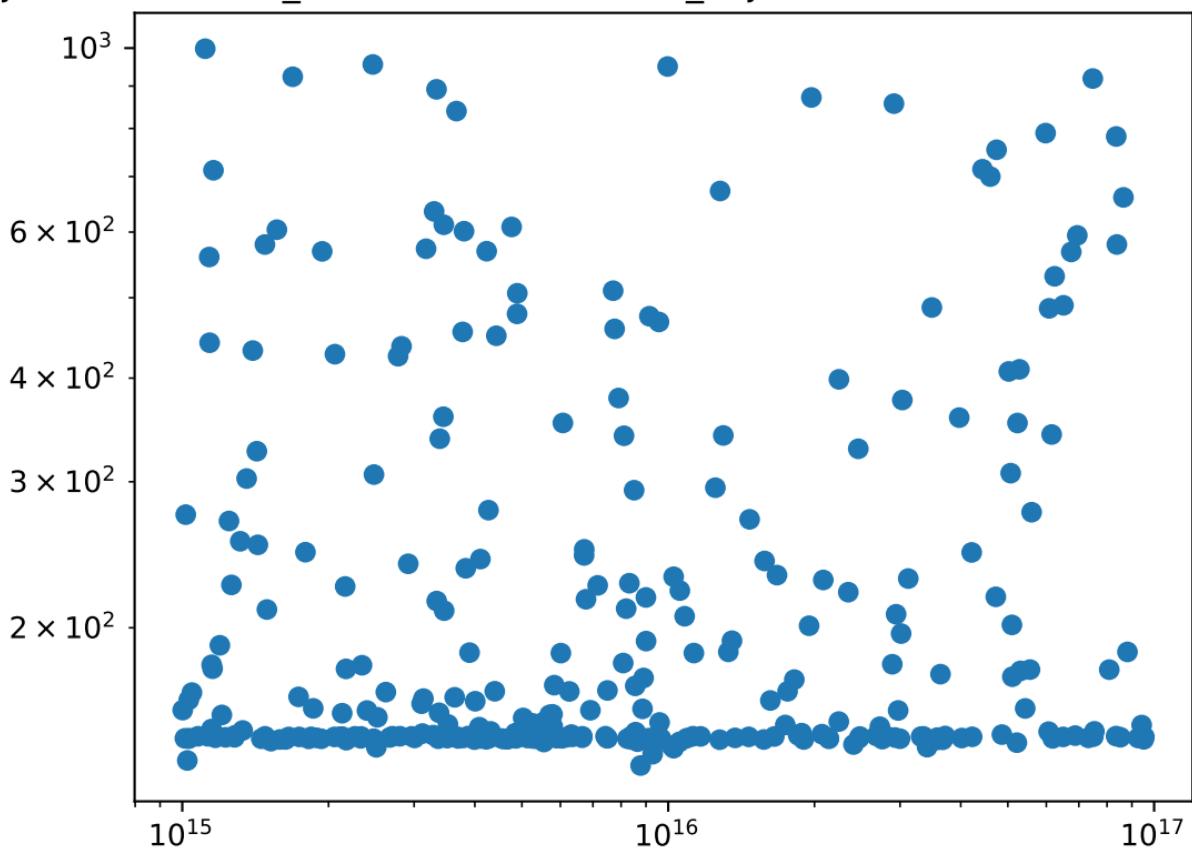
obj func low CPOX_Pt/Deutschmann2006_adjusted/28/H2OX + Pt <=> HX +



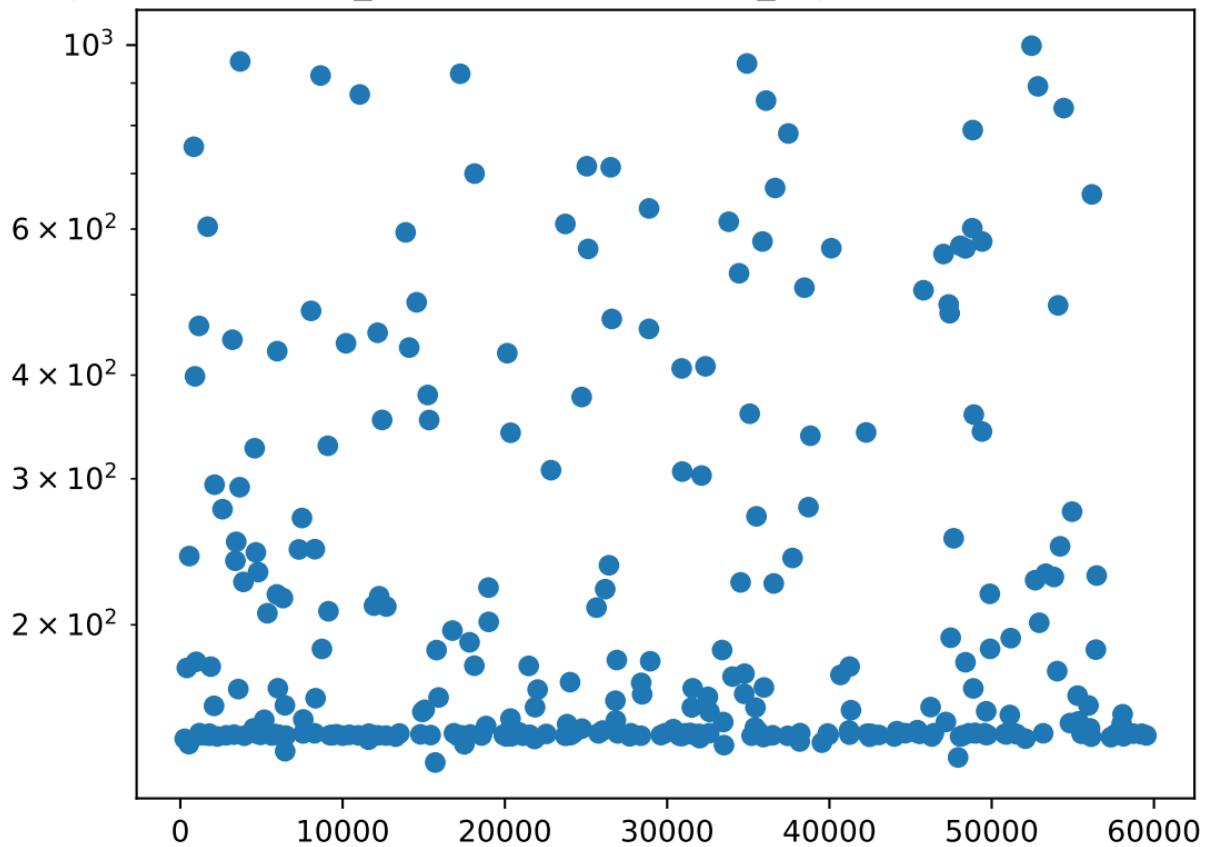
obj func low CPOX_Pt/Deutschmann2006_adjusted/30/H₂OX + OX <=> HOX



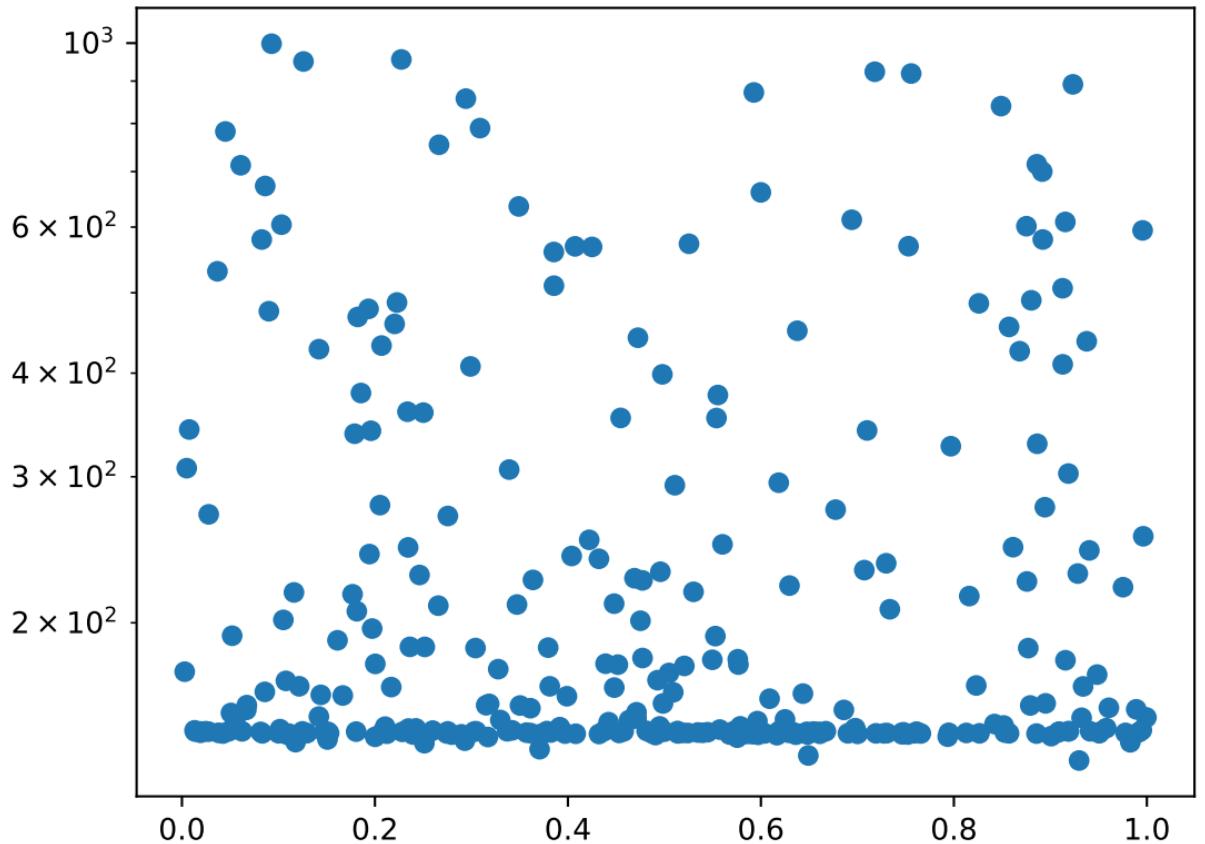
obj func low CPOX_Pt/Deutschmann2006_adjusted/30/H2OX + OX <=> HOX



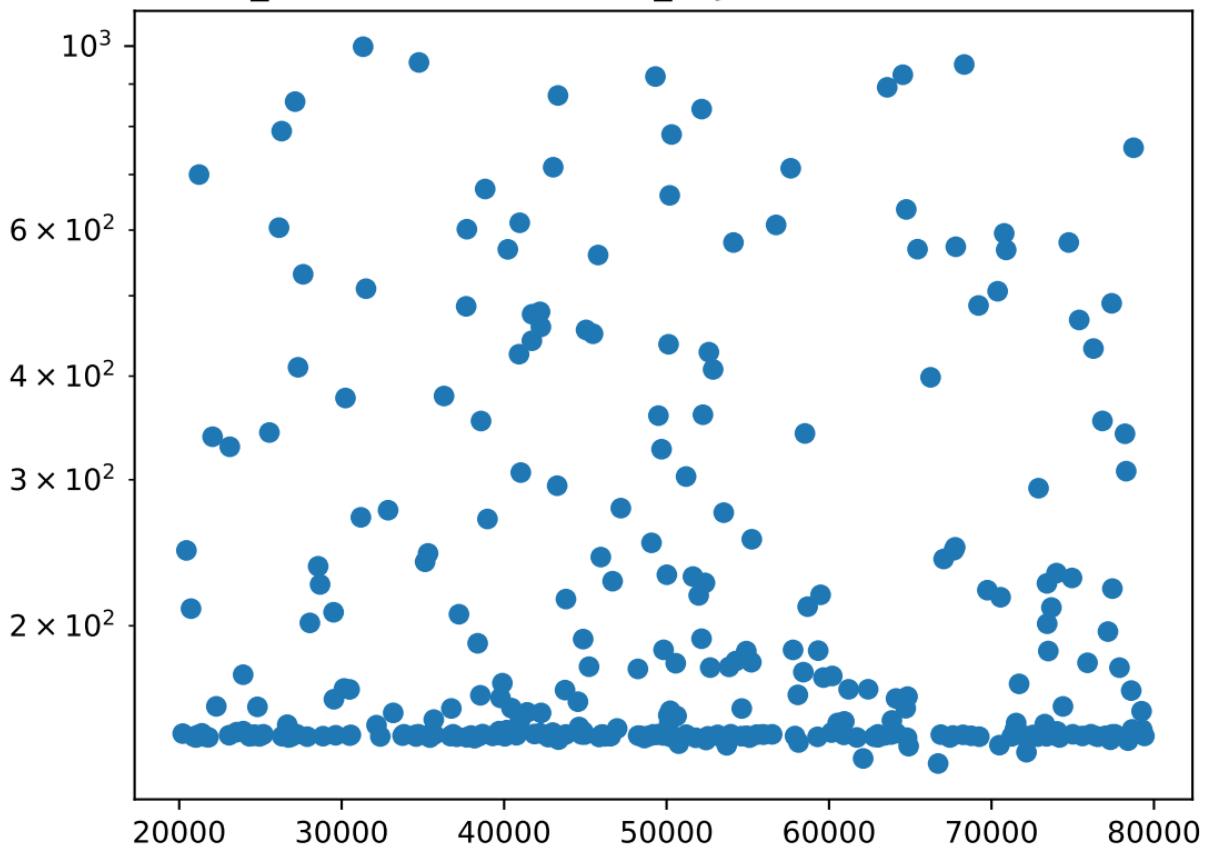
near obj func low CPOX_Pt/Deutschmann2006_adjusted/31/H2 + CX <=> CH2



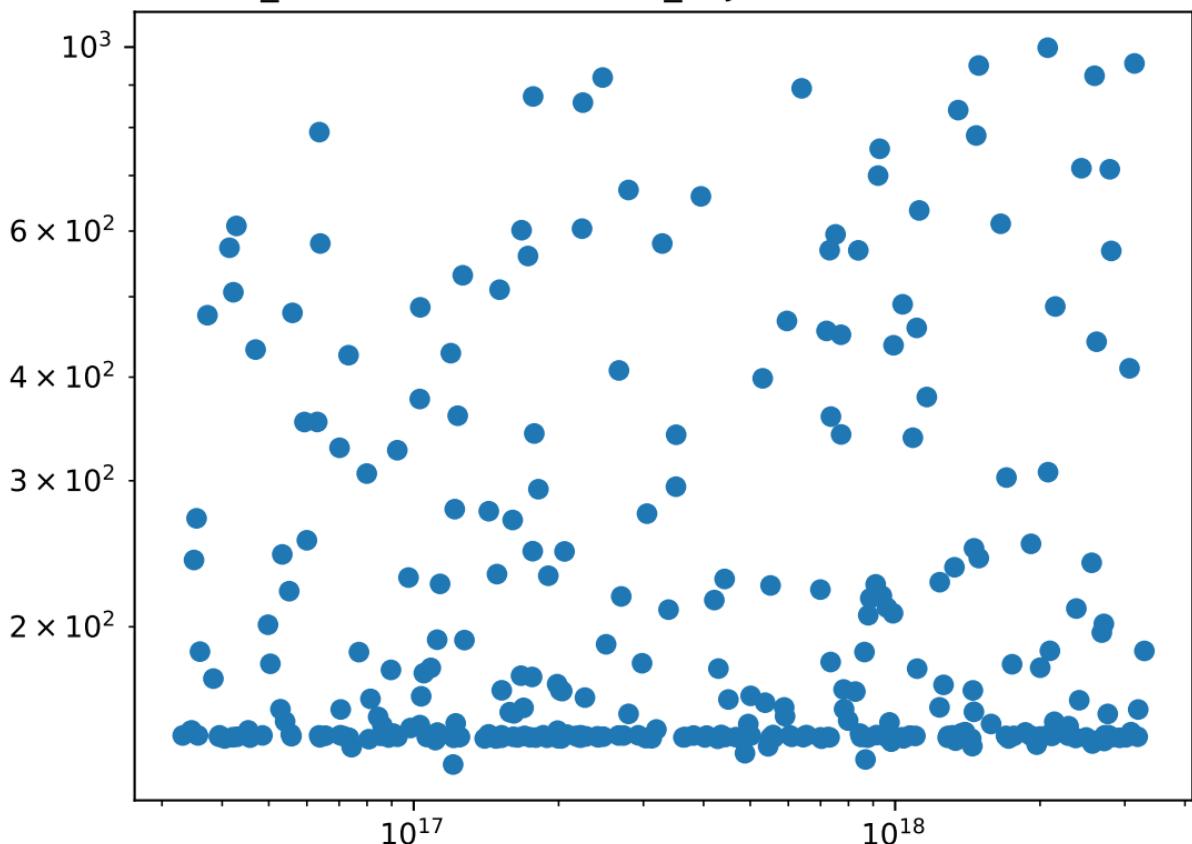
near obj func low CPOX_Pt/Deutschmann2006_adjusted/31/H2 + CX <=> CH2



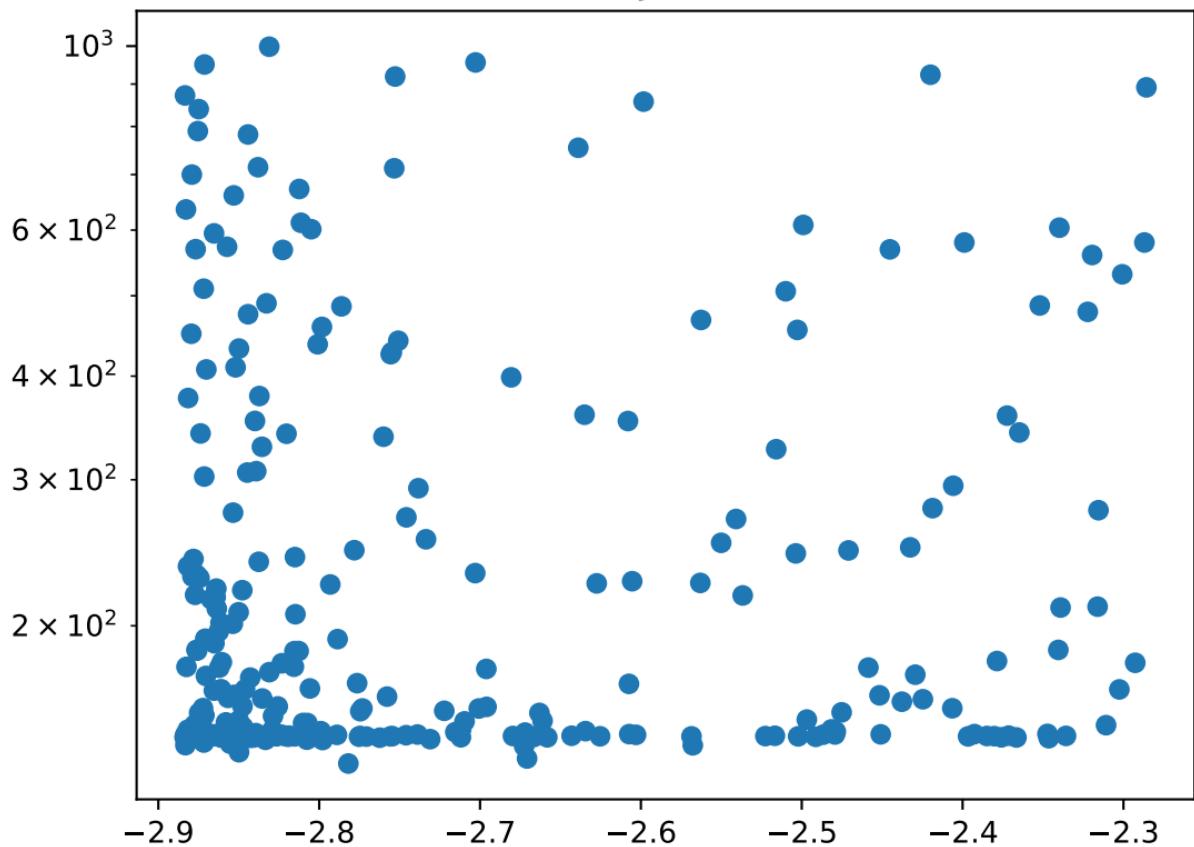
obj func low CPOX_Pt/Deutschmann2006_adjusted/34/CH3X + HX <=> CH4 +



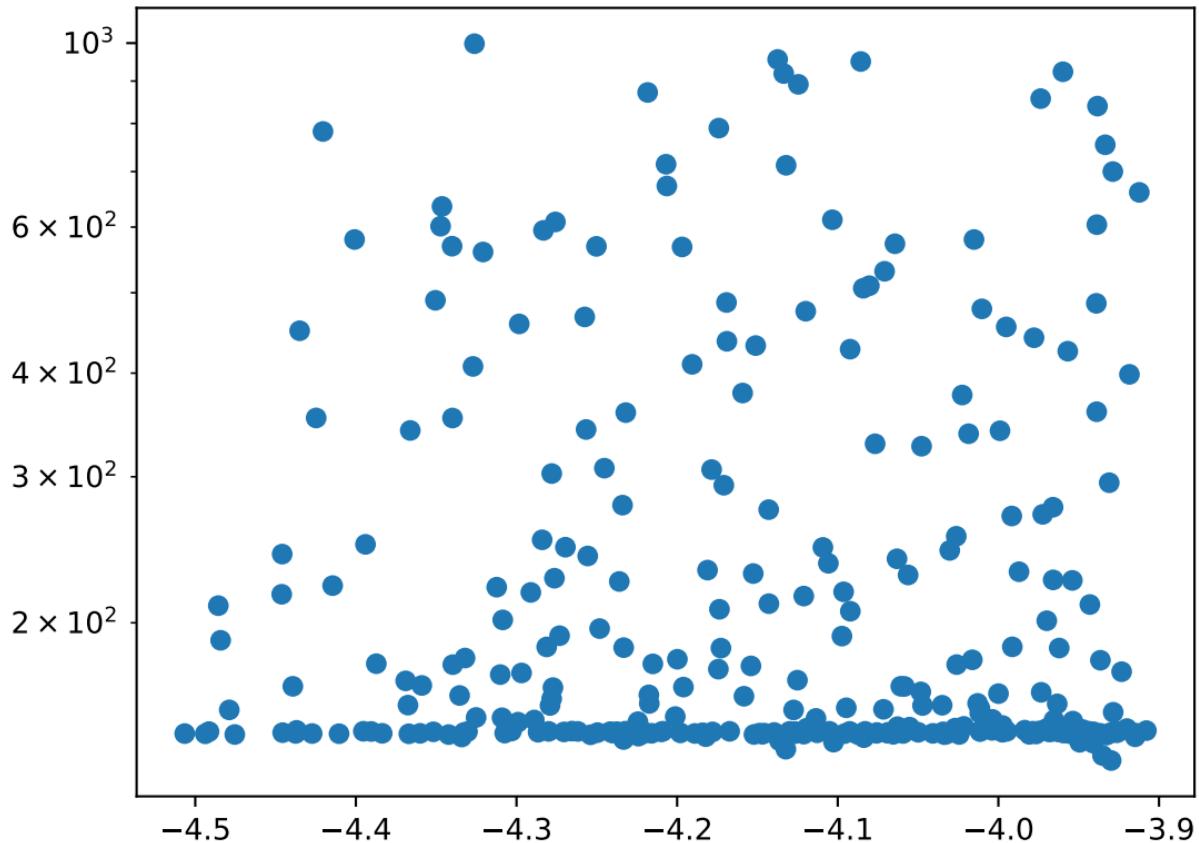
obj func low CPOX_Pt/Deutschmann2006_adjusted/34/CH₃X + HX <=> CH₄ +



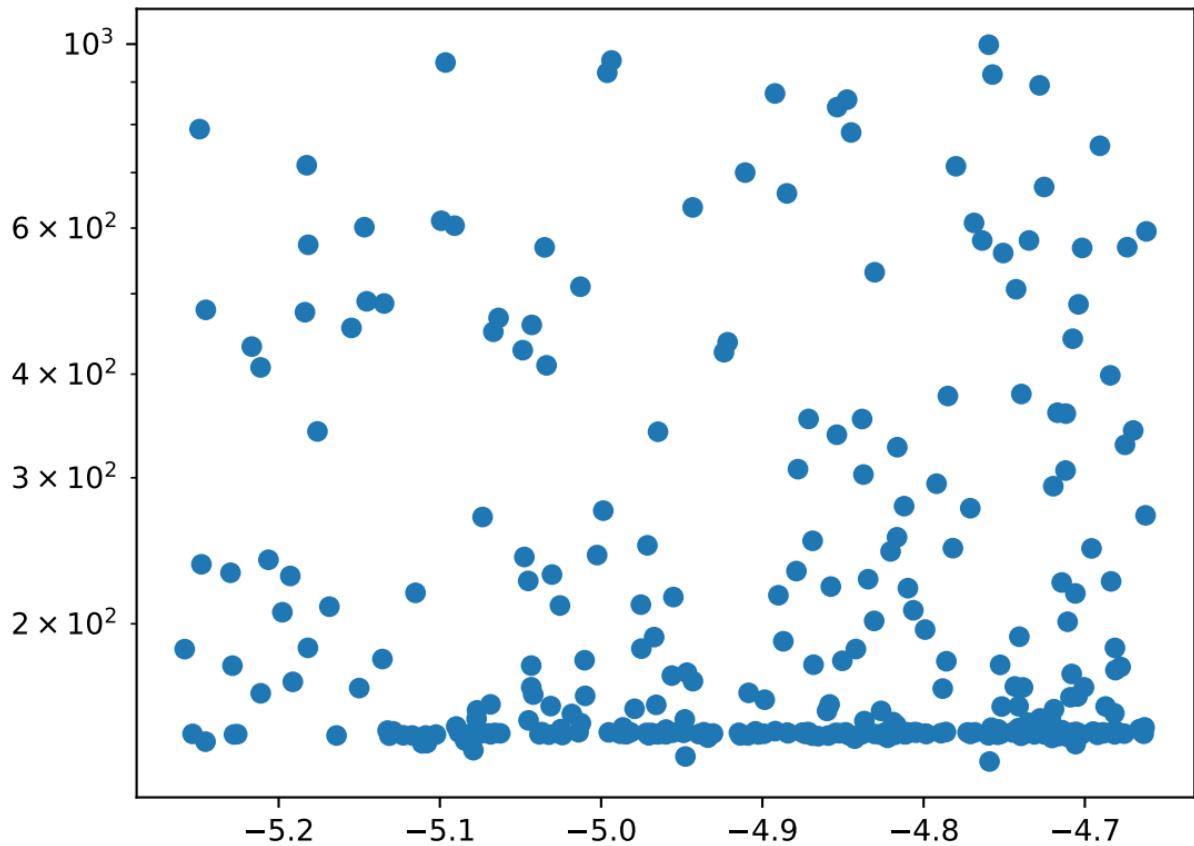
linear obj func low H



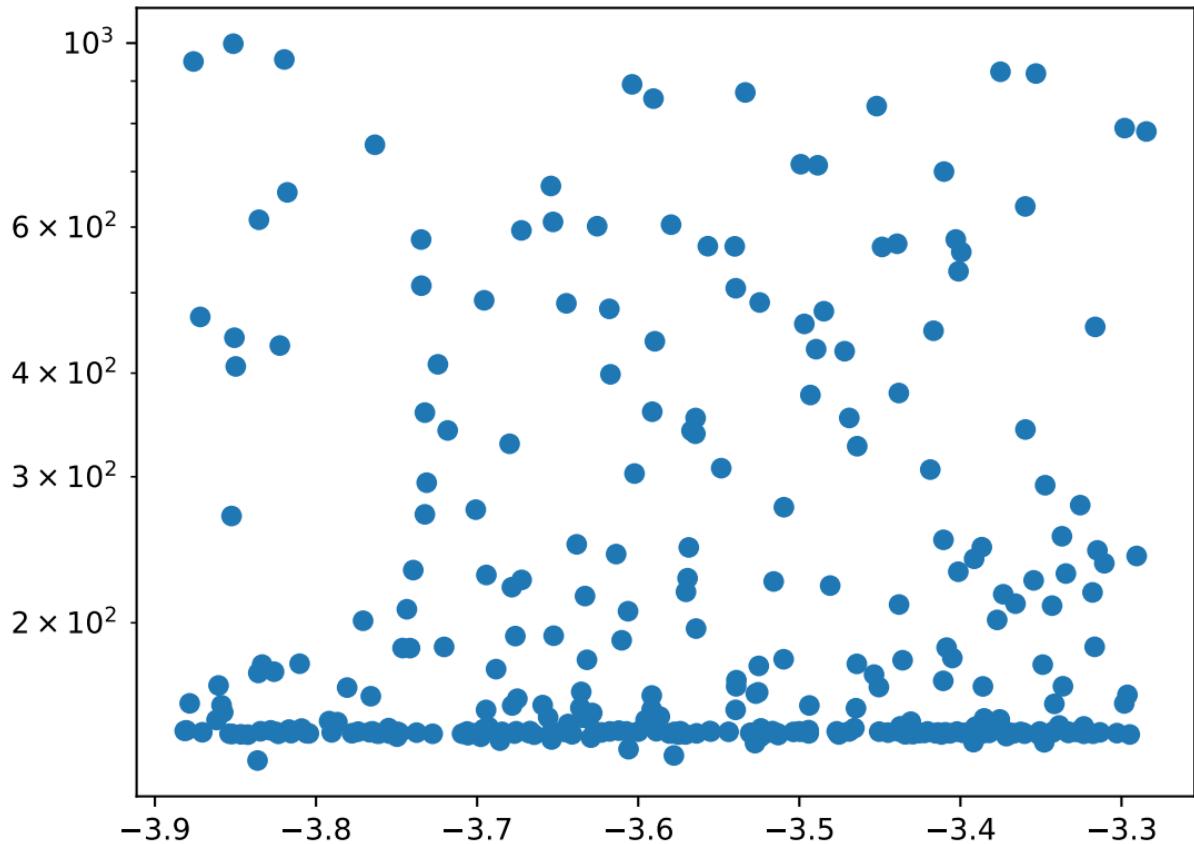
linear obj func low O



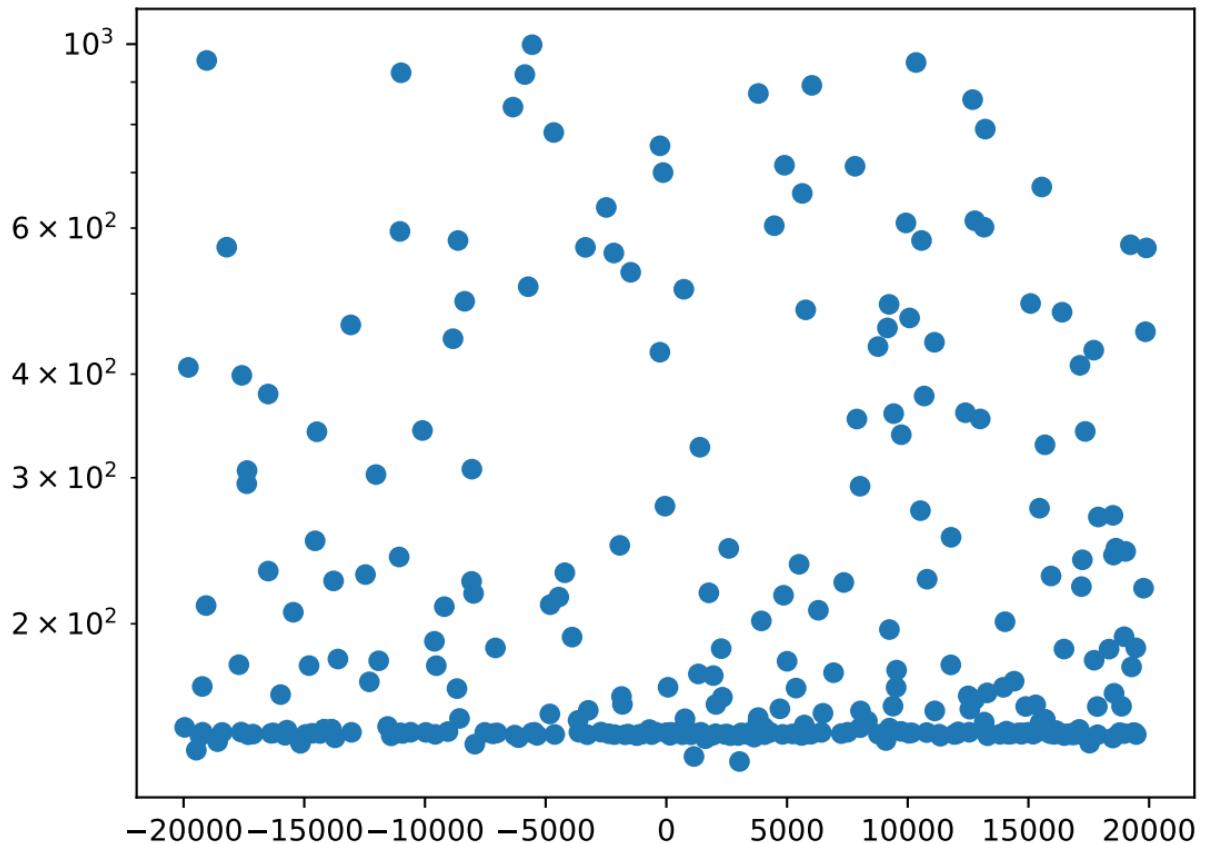
linear obj func low C



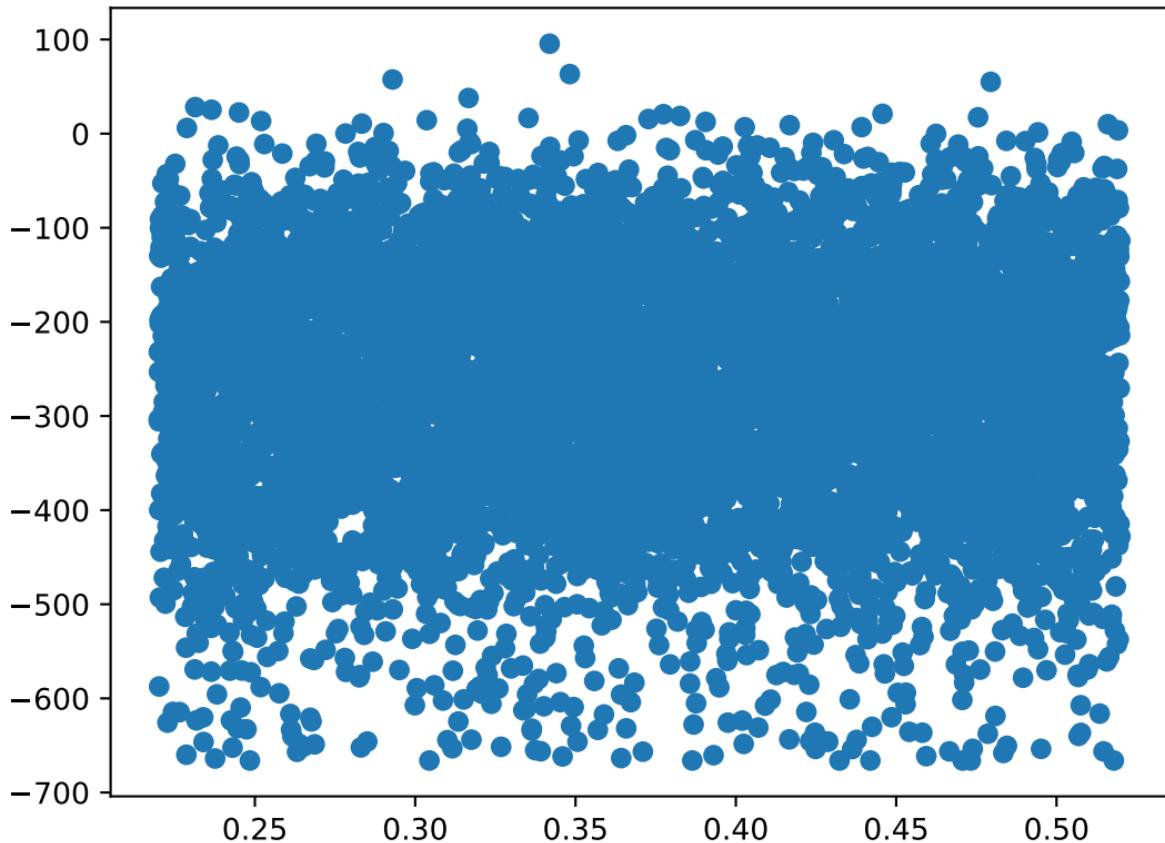
linear obj func low N



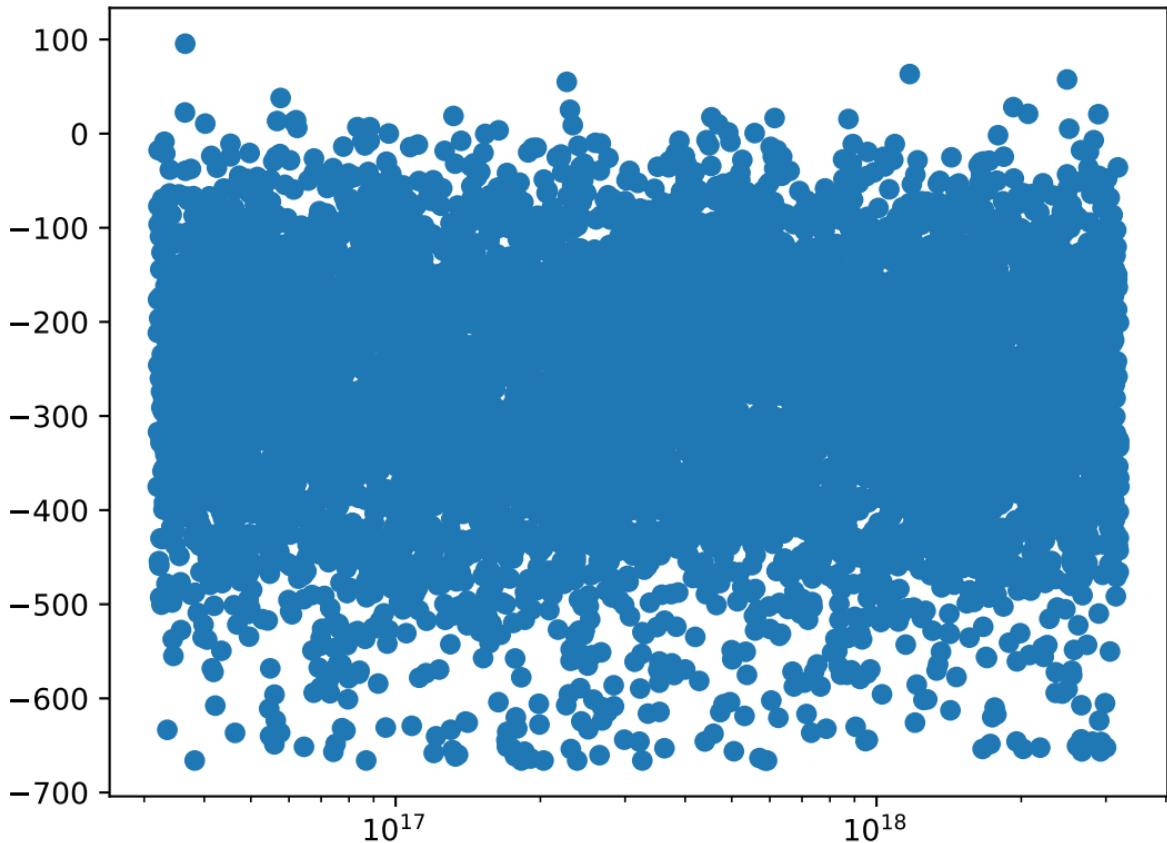
linear obj func low Vdw



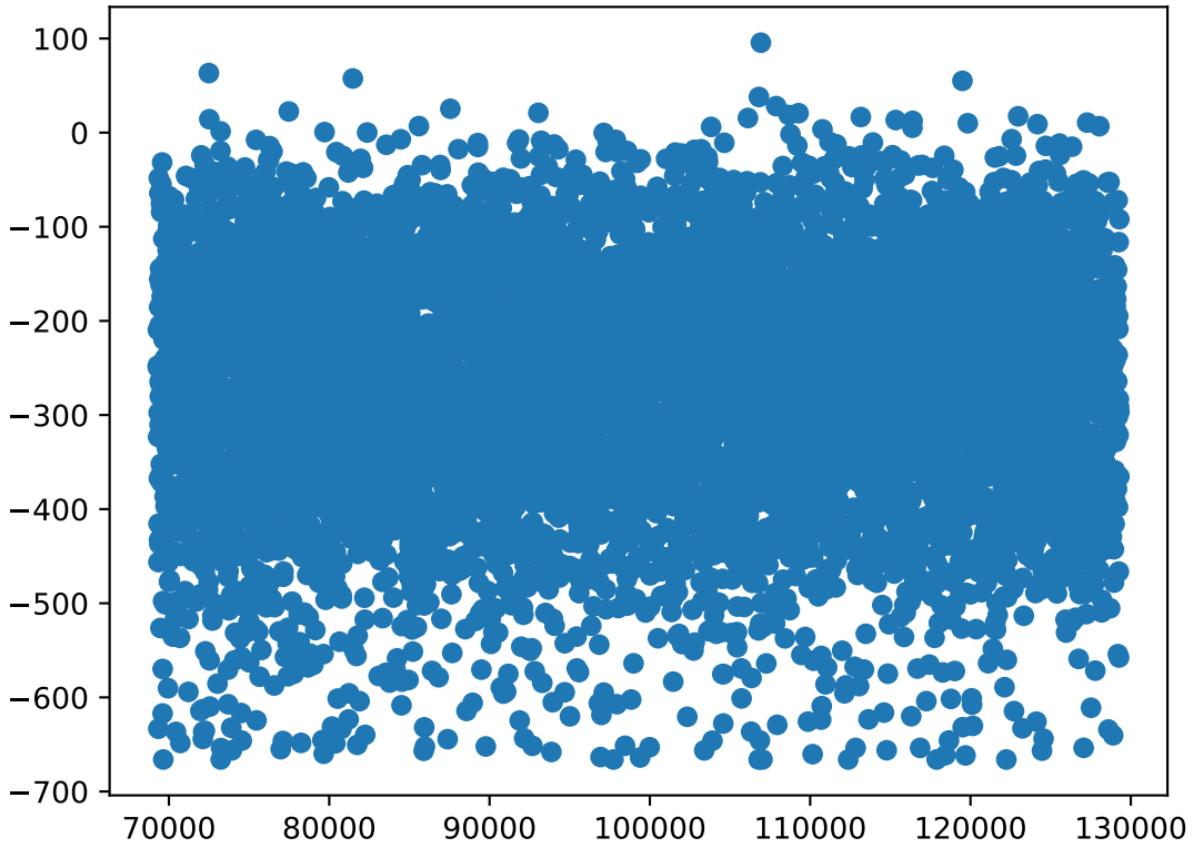
log obj func Surface_Abstraction/Abstracting;Donating/alpha



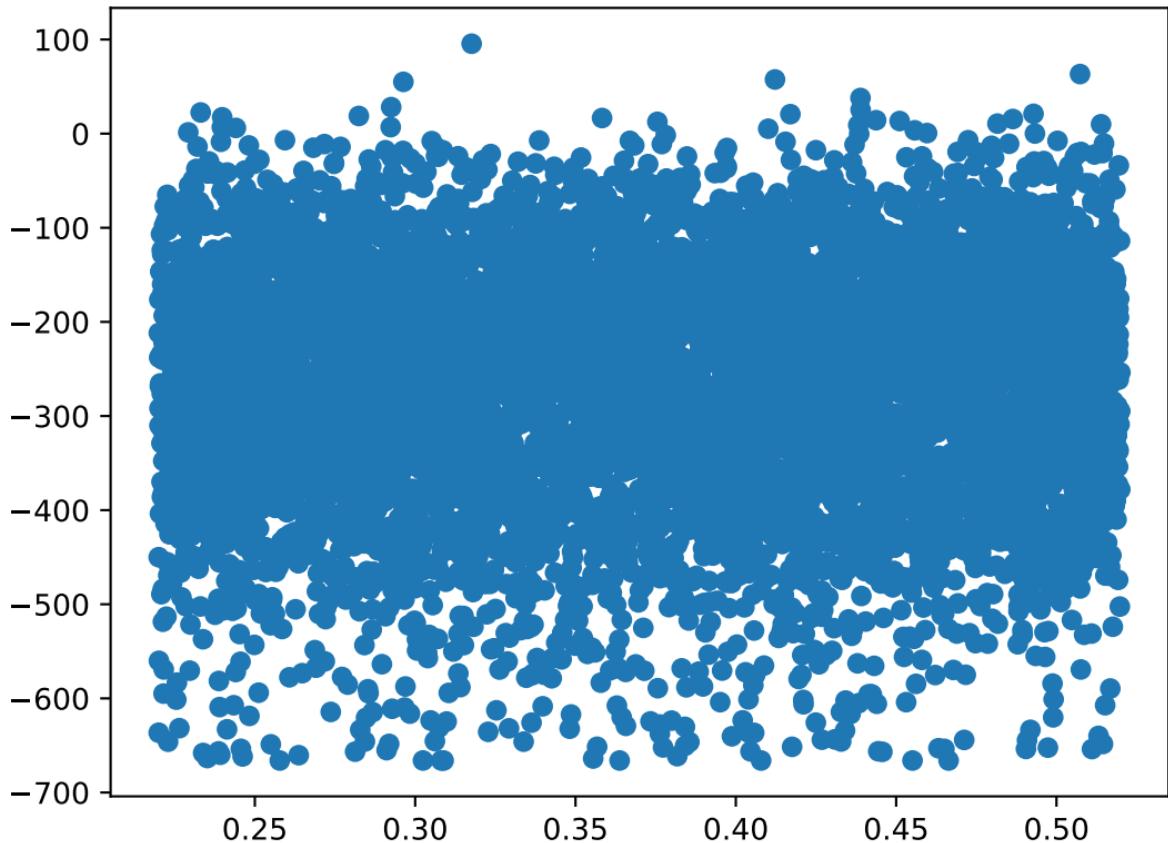
log obj func Surface_Abstraction/Abstracting;Donating/A



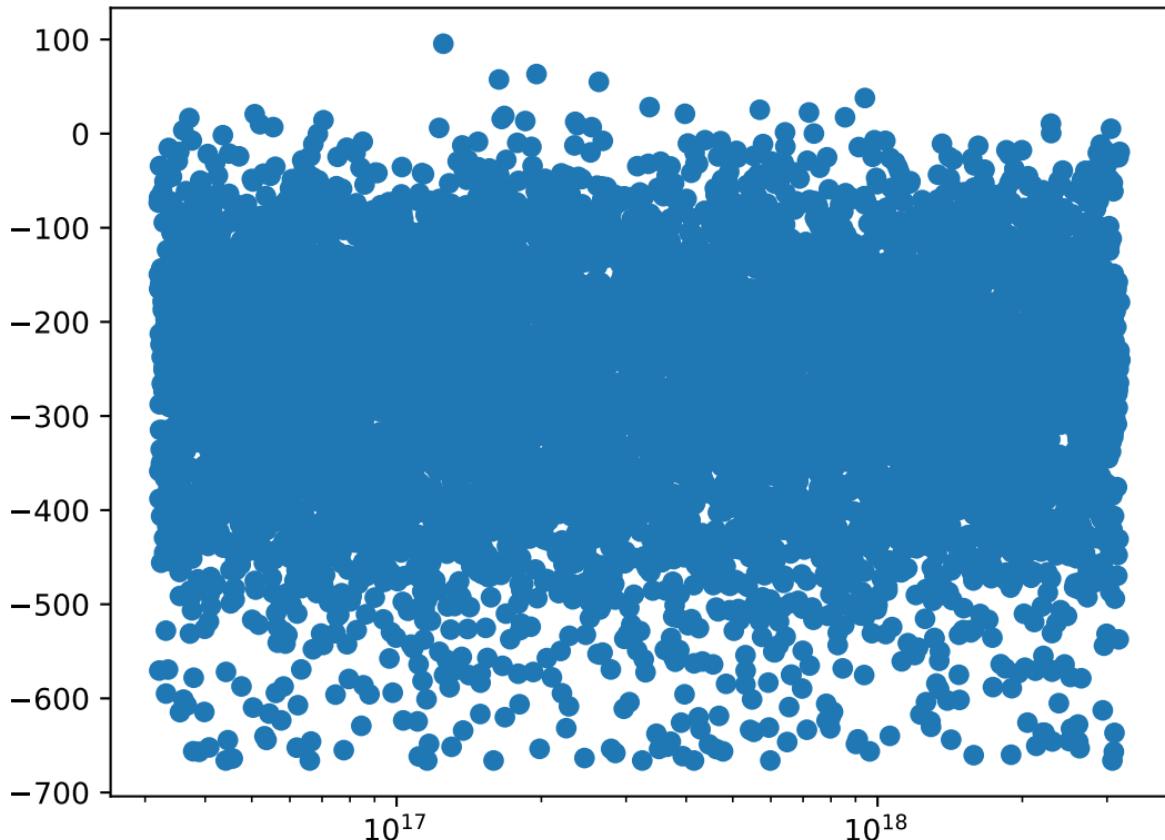
log obj func Surface_Abstraction/Abstracting;Donating/E0



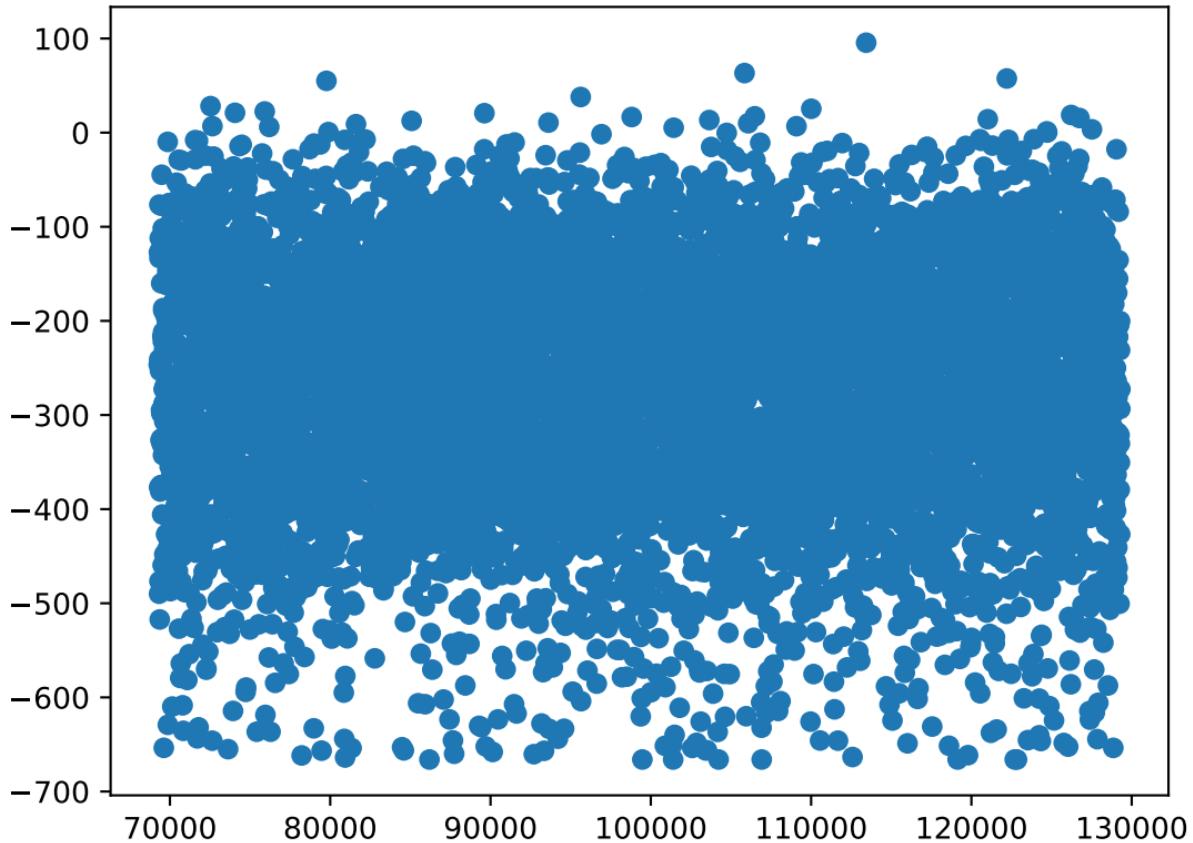
log obj func Surface_Abstraction/Abstracting;*R-H/alpha



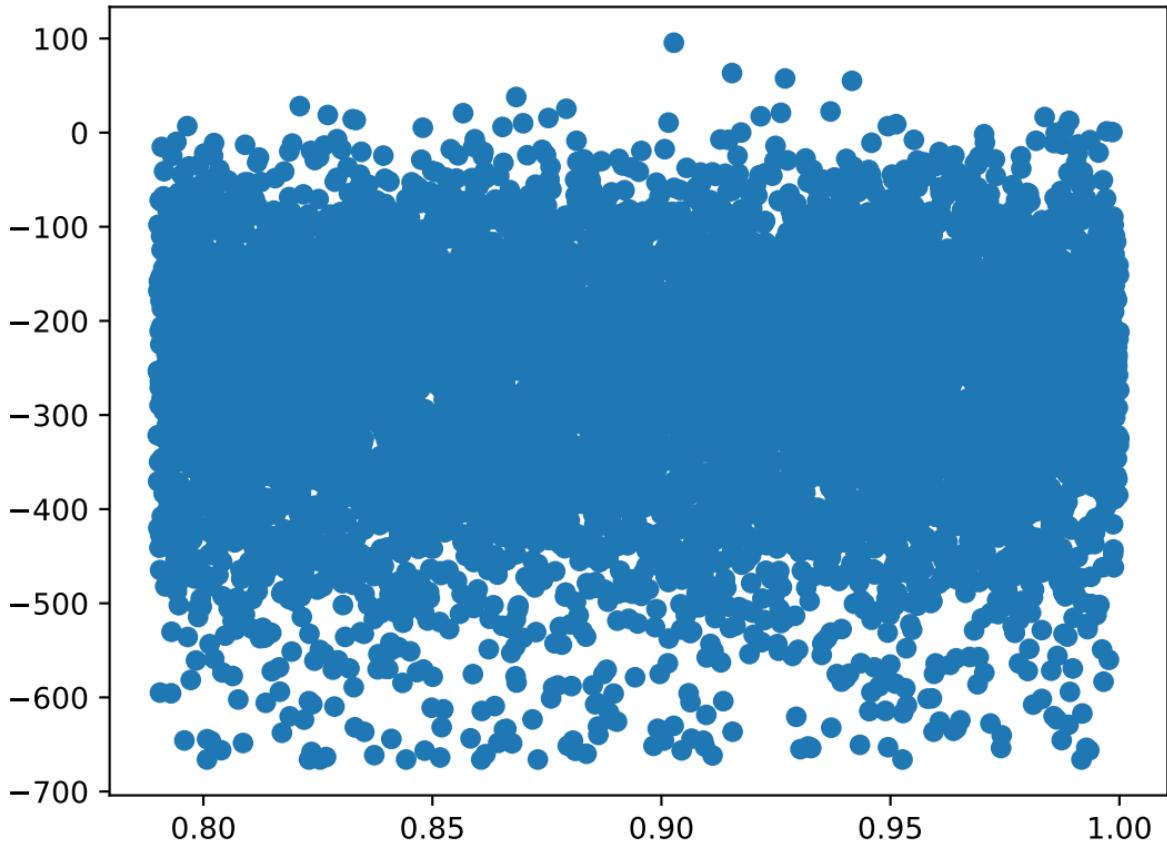
log obj func Surface_Abstraction/Abstracting;*R-H/A



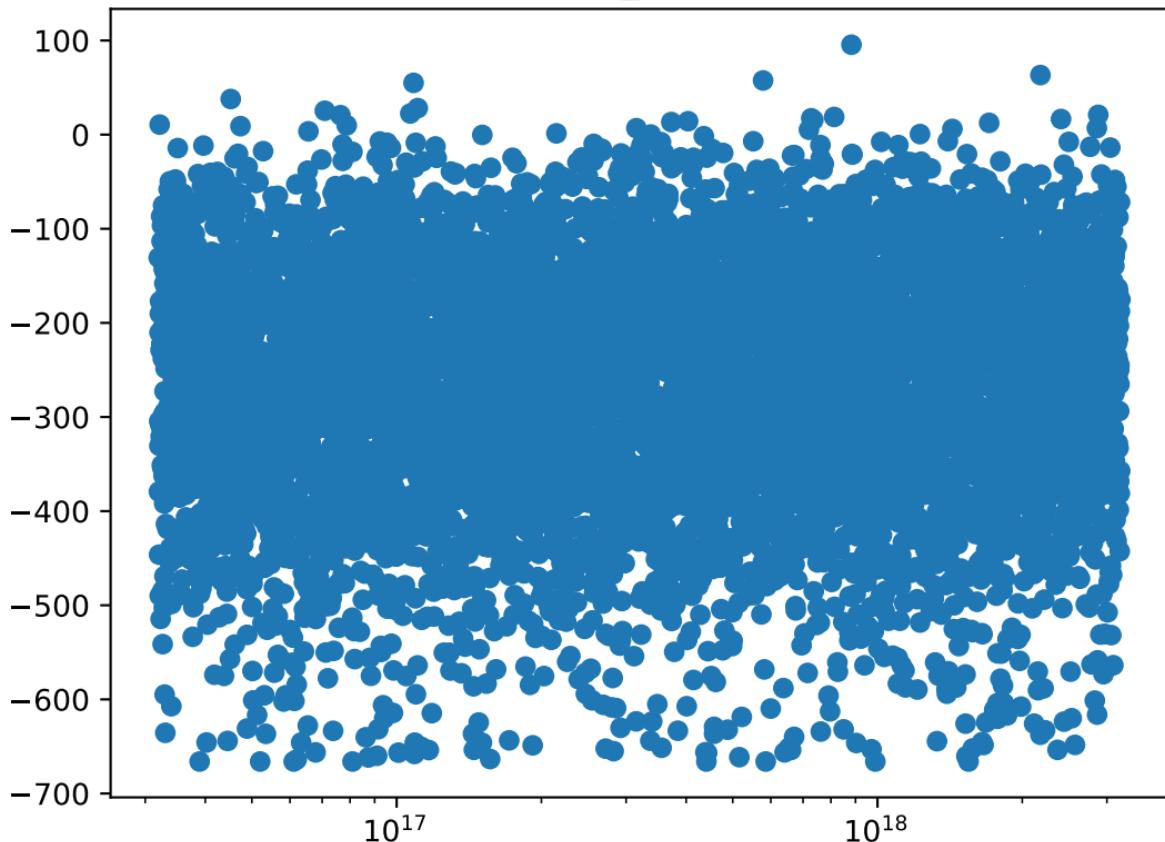
log obj func Surface_Abstraction/Abstracting;*R-H/E0



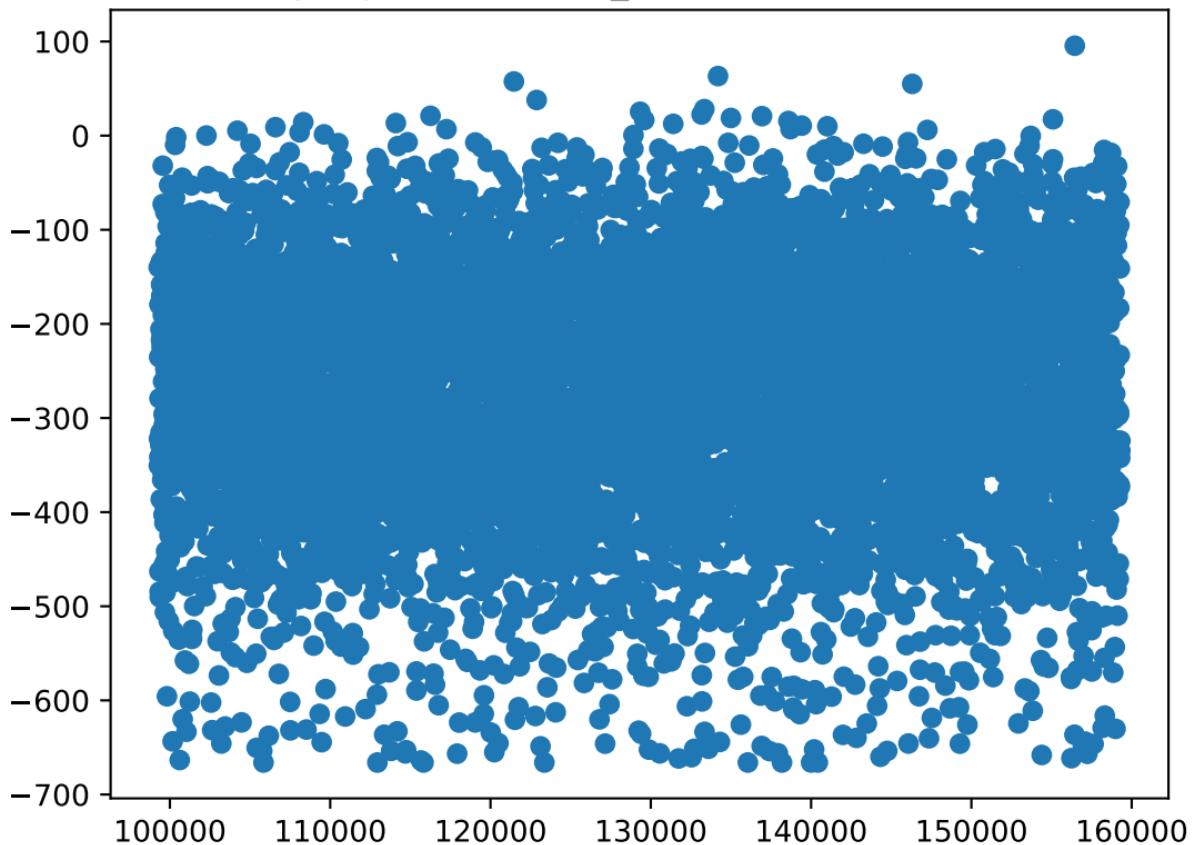
log obj func Surface_Abstraction/O;*C-H/alpha



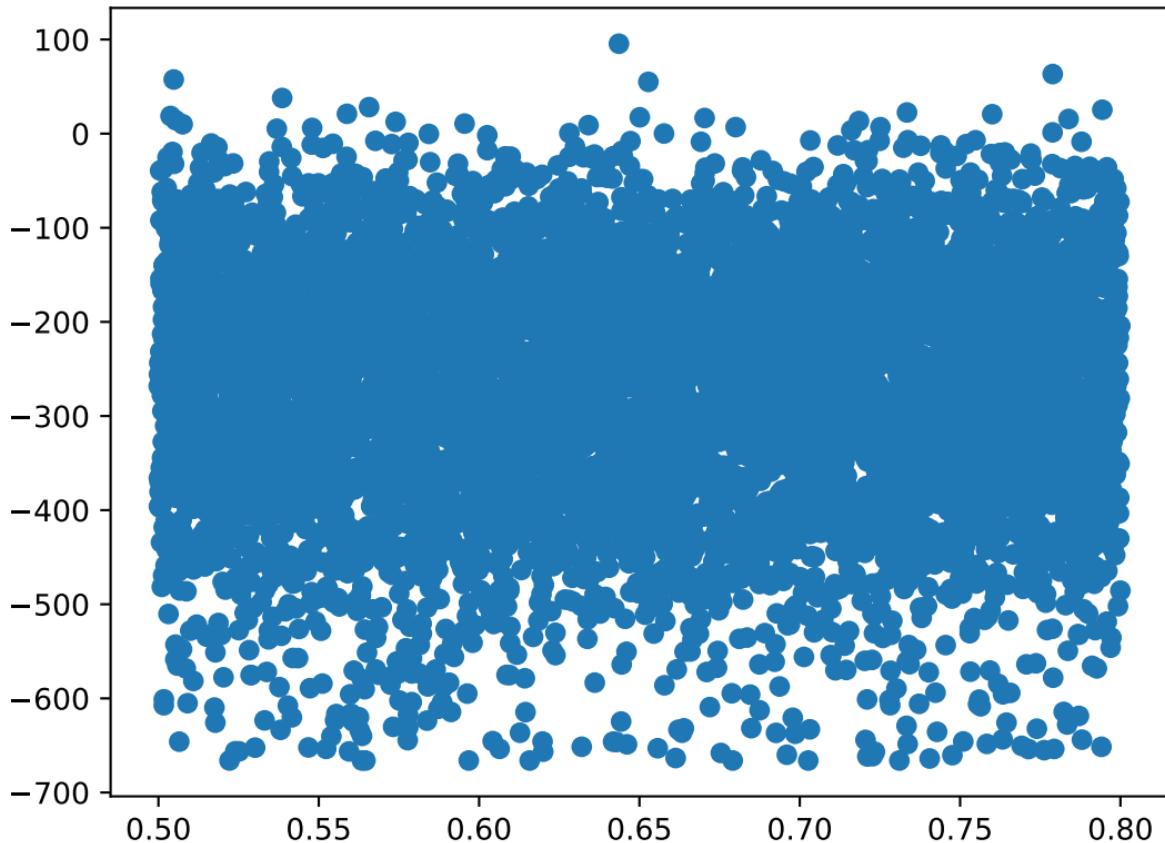
log obj func Surface_Abstraction/O;*C-H/A



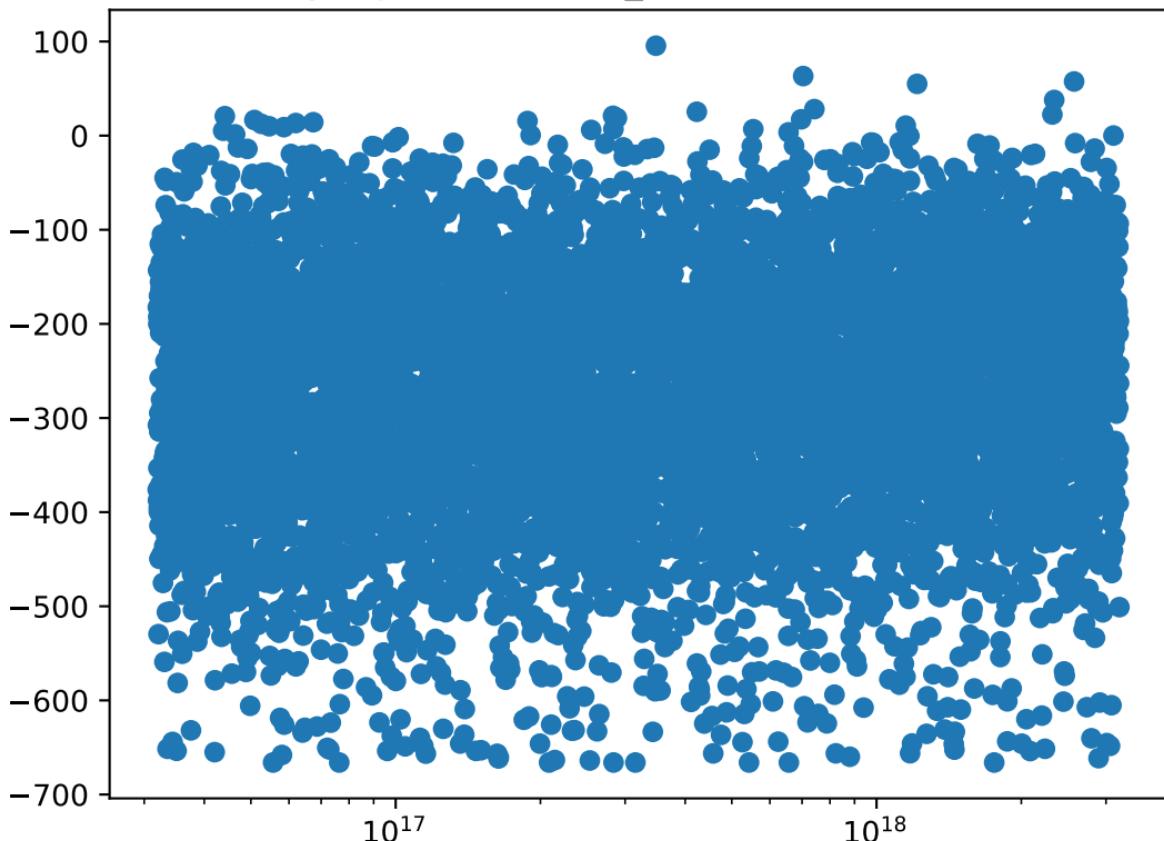
log obj func Surface_Abstraction/O;*C-H/E0



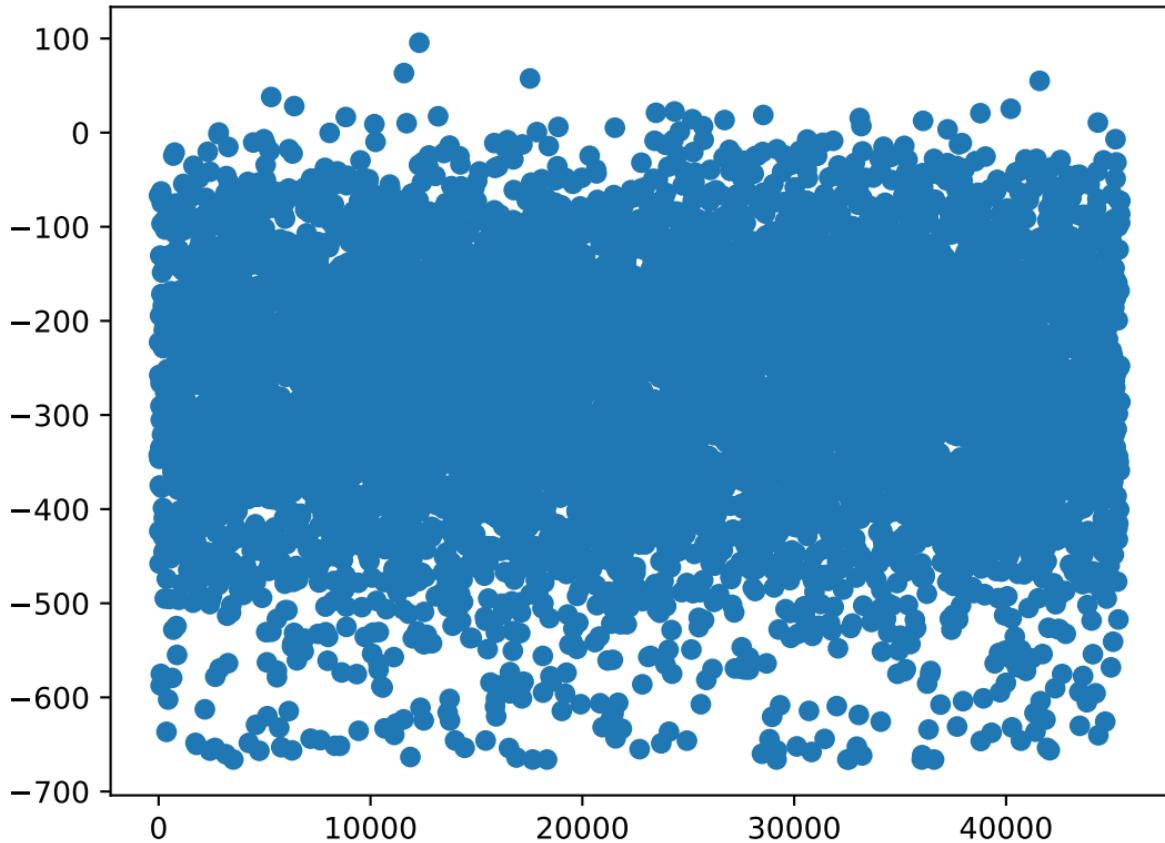
log obj func Surface_Abstraction/O;*OH/alpha



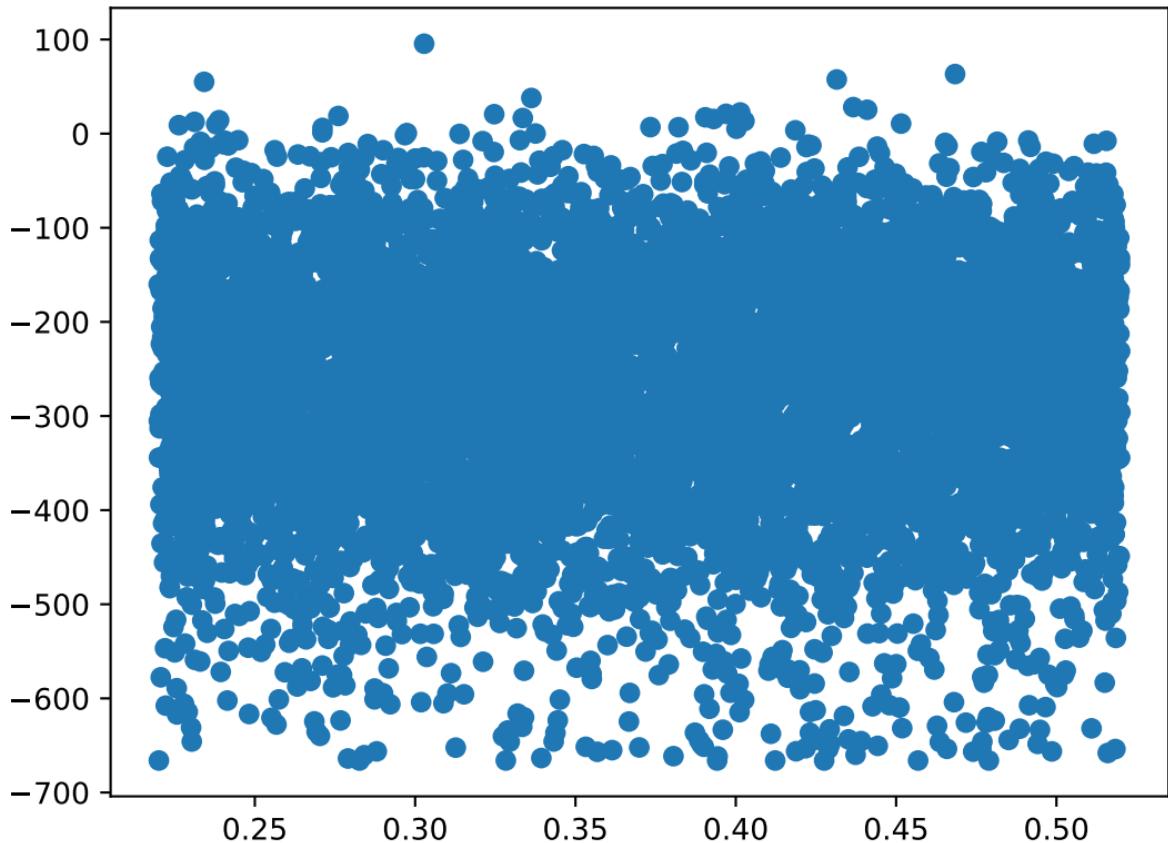
log obj func Surface_Abstraction/O;*OH/A



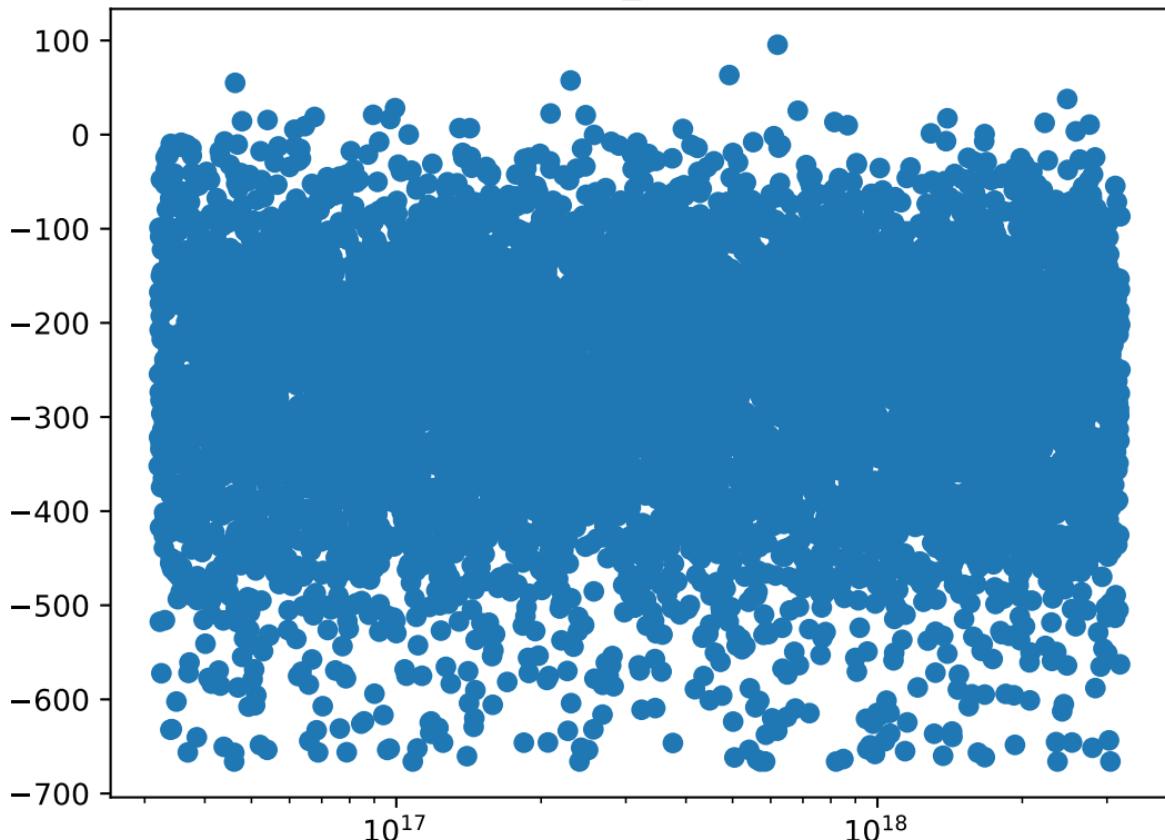
log obj func Surface_Abstraction/O;*OH/E0



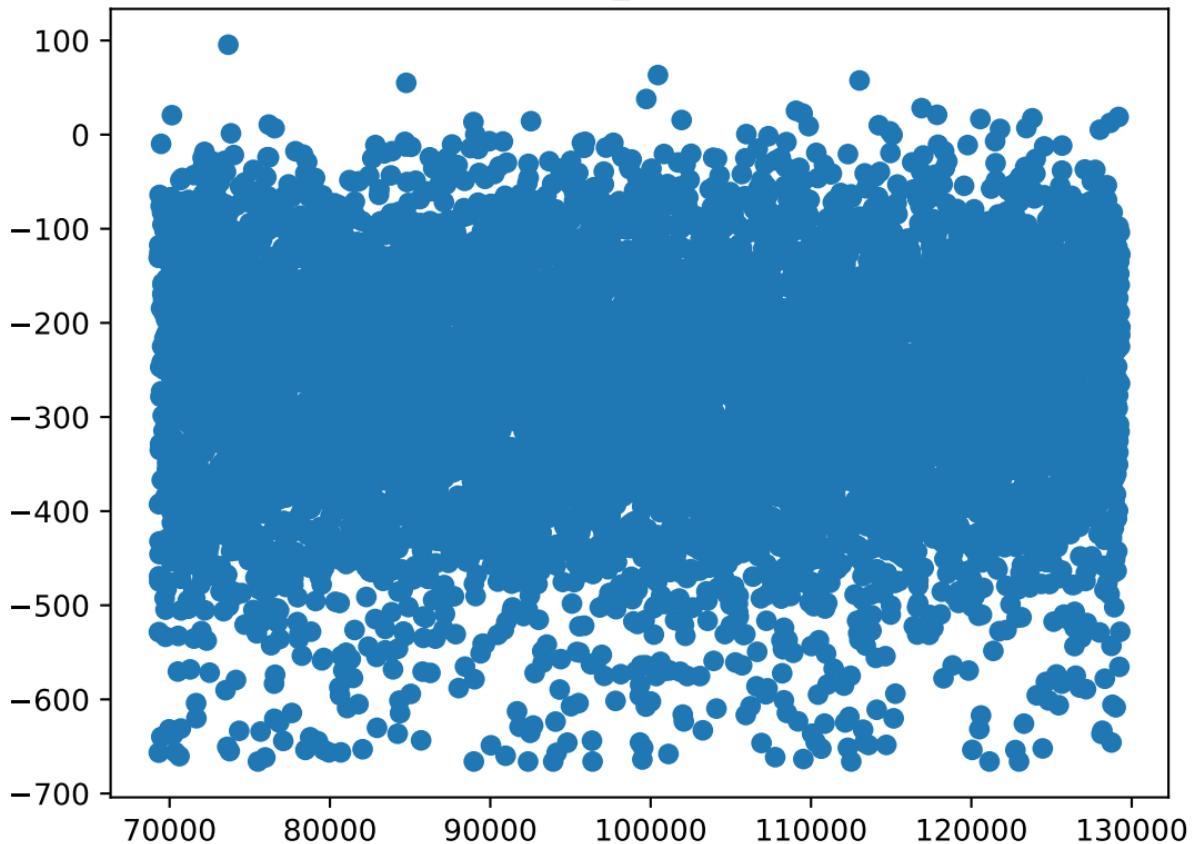
log obj func Surface_Abstraction/C;*C-H/alpha



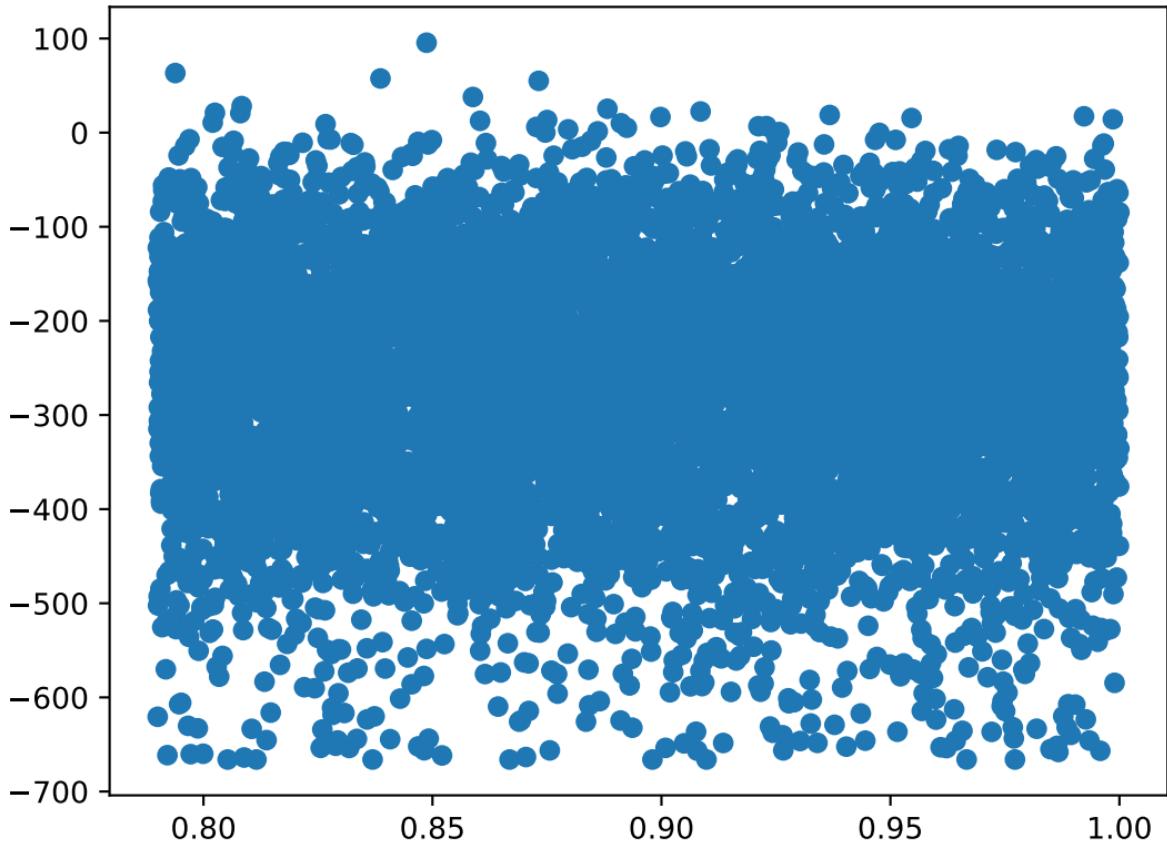
log obj func Surface_Abstraction/C;*C-H/A



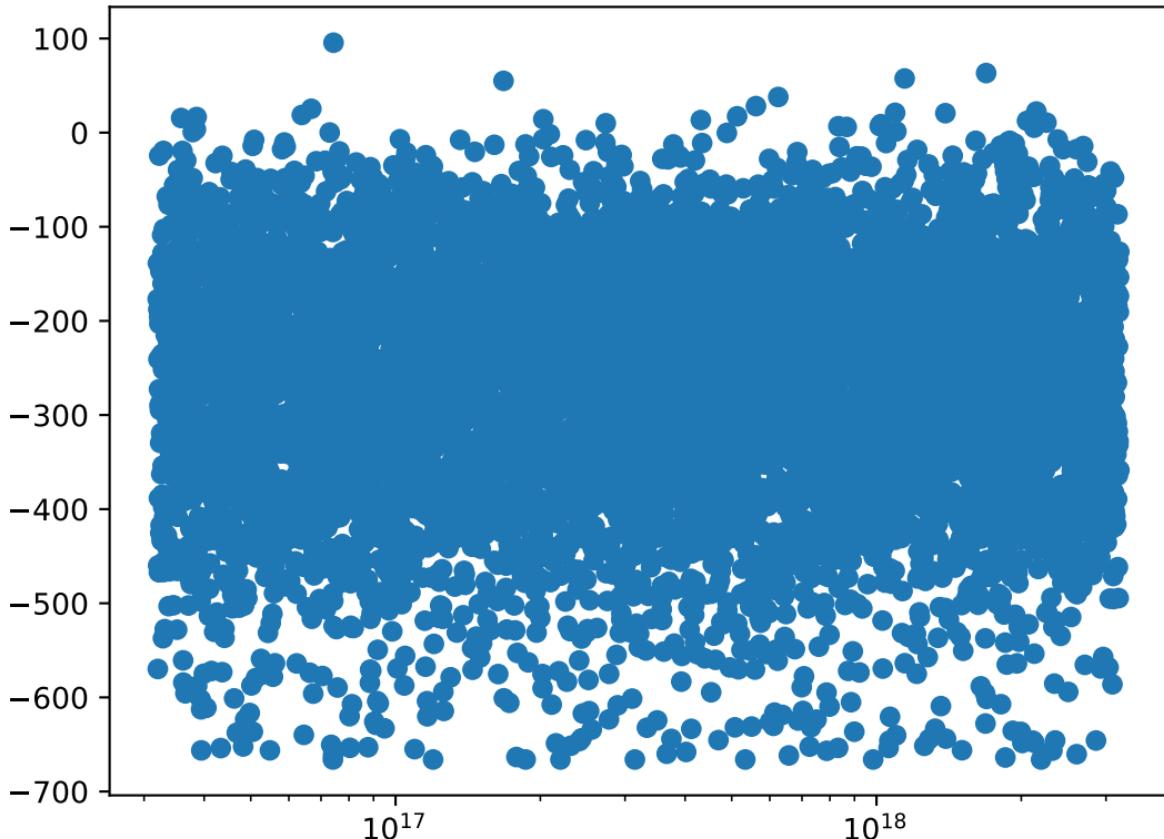
log obj func Surface_Abstraction/C;*C-H/E0



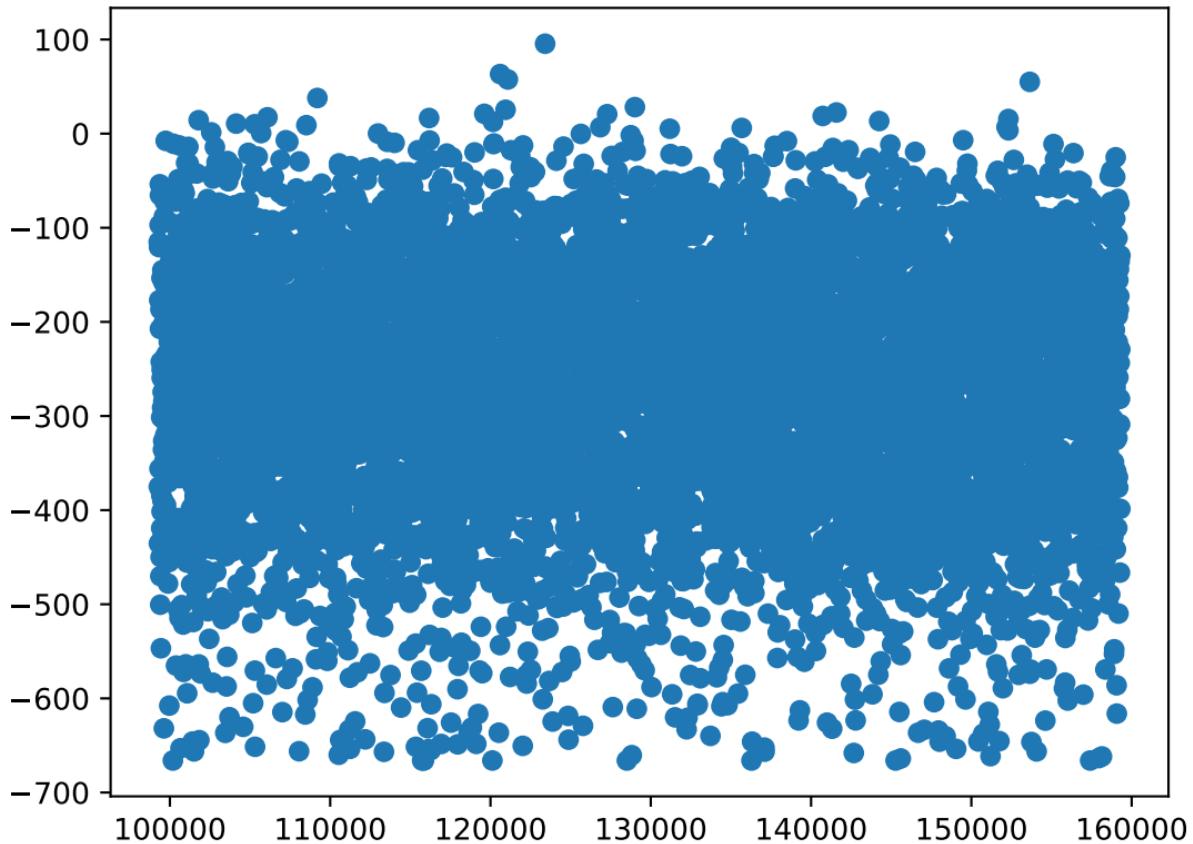
log obj func Surface_Abstraction_Beta/Combined;Adsorbate1/alpha



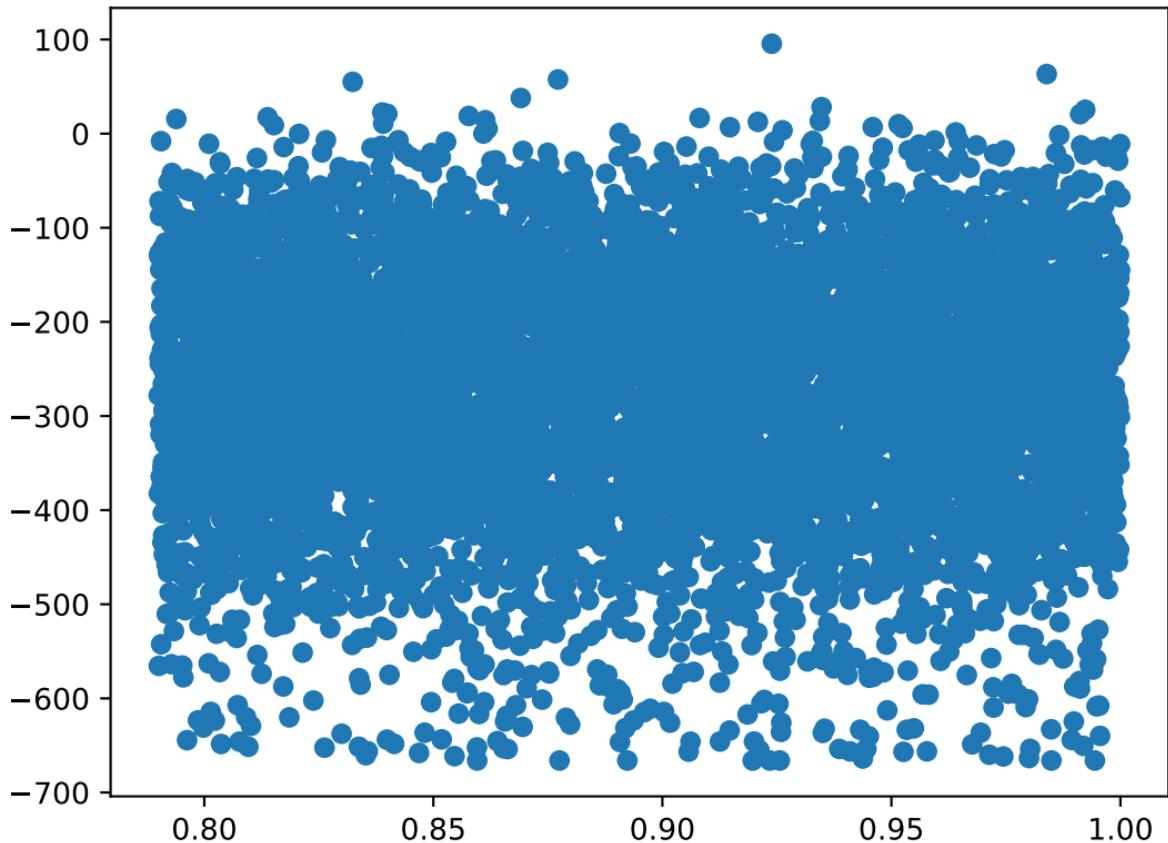
log obj func Surface_Abstraction_Beta/Combined;Adsorbate1/A



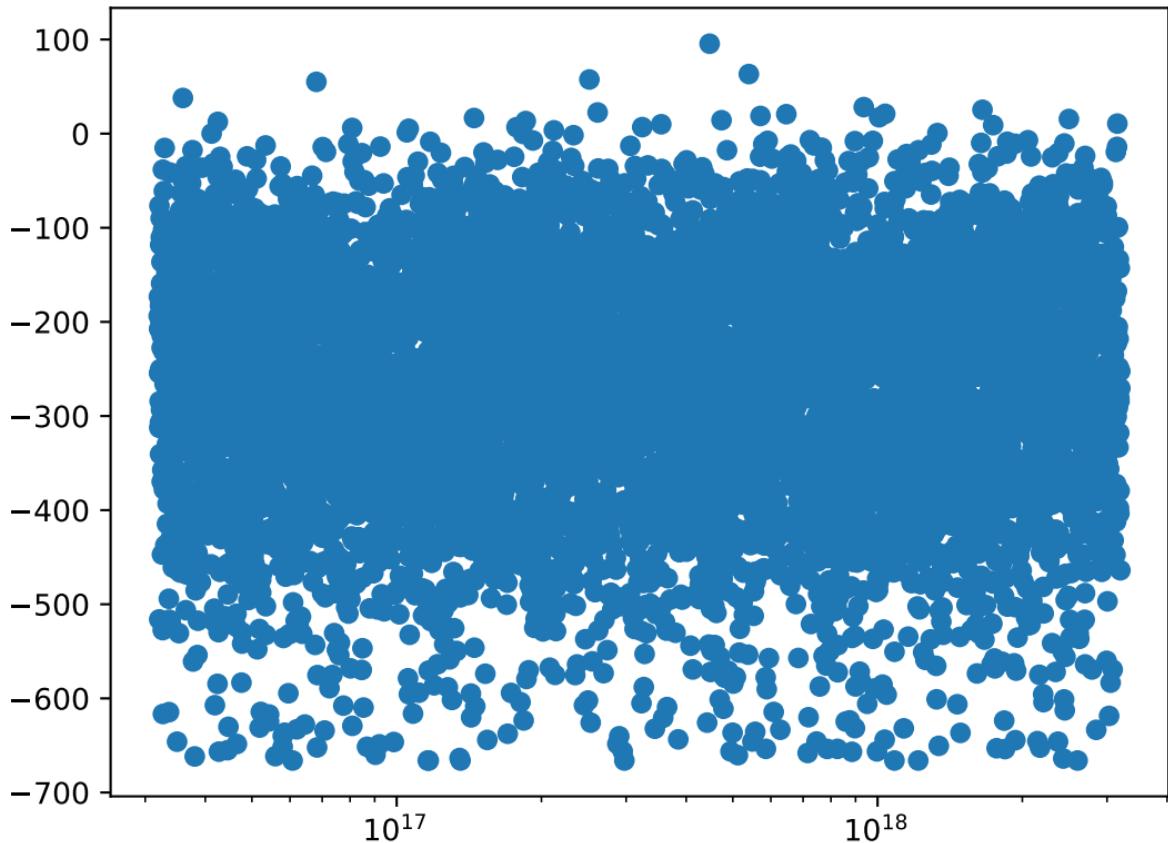
log obj func Surface_Abstraction_Beta/Combined;Adsorbate1/E0



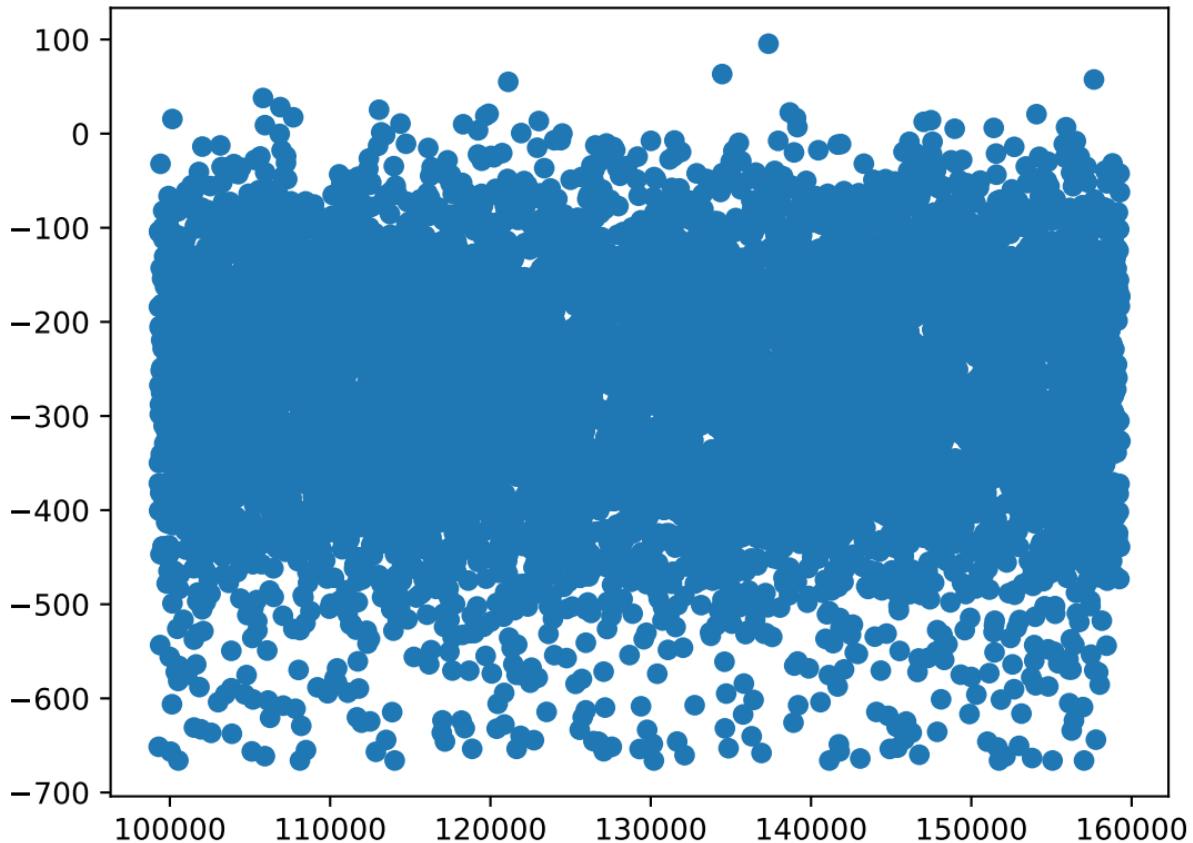
log obj func Surface_Abstraction_Beta/C-H;O/alpha



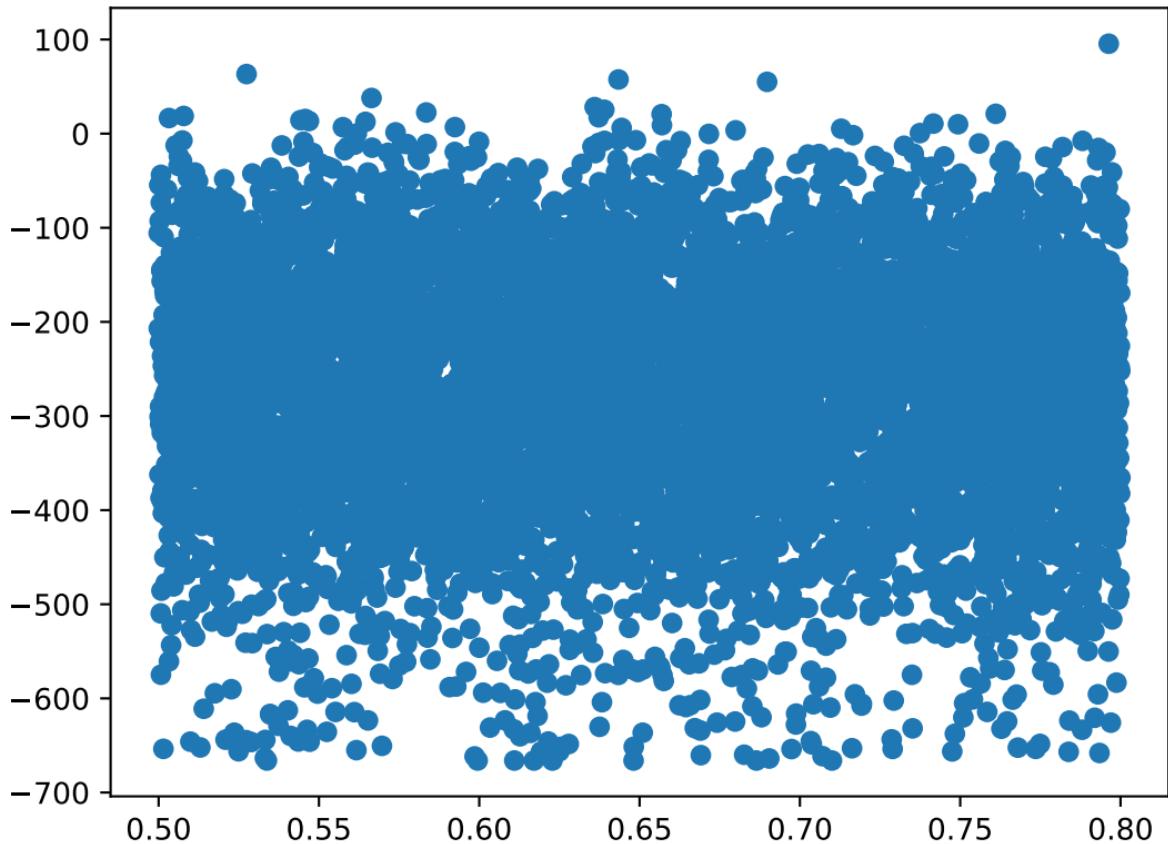
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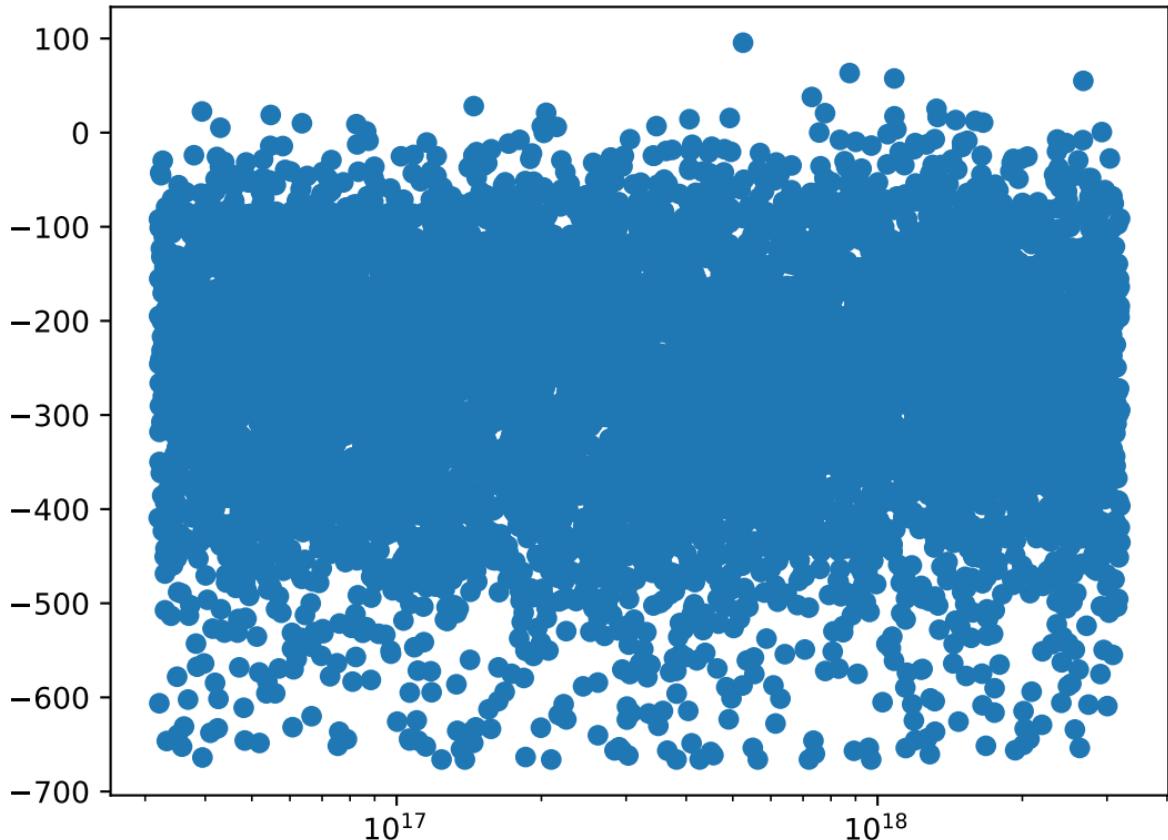
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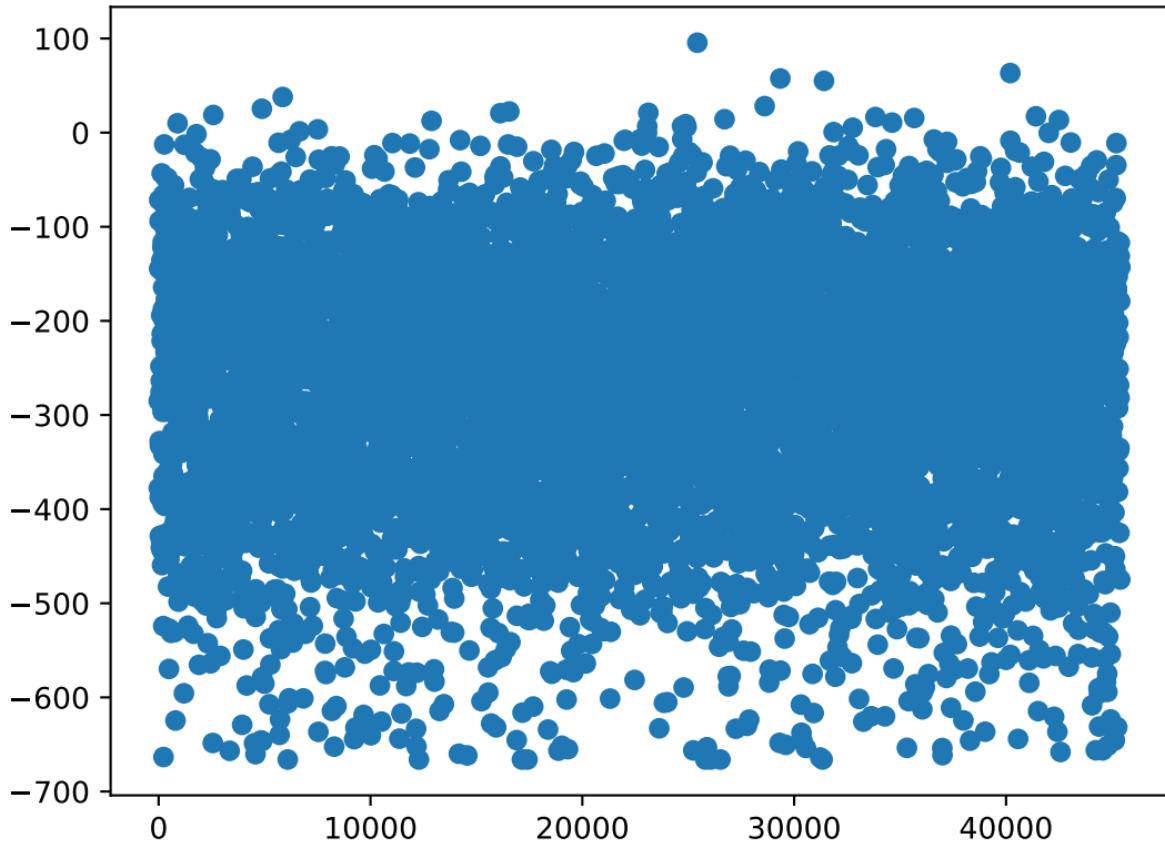
log obj func Surface_Abstraction_Beta/O-H;O/alpha



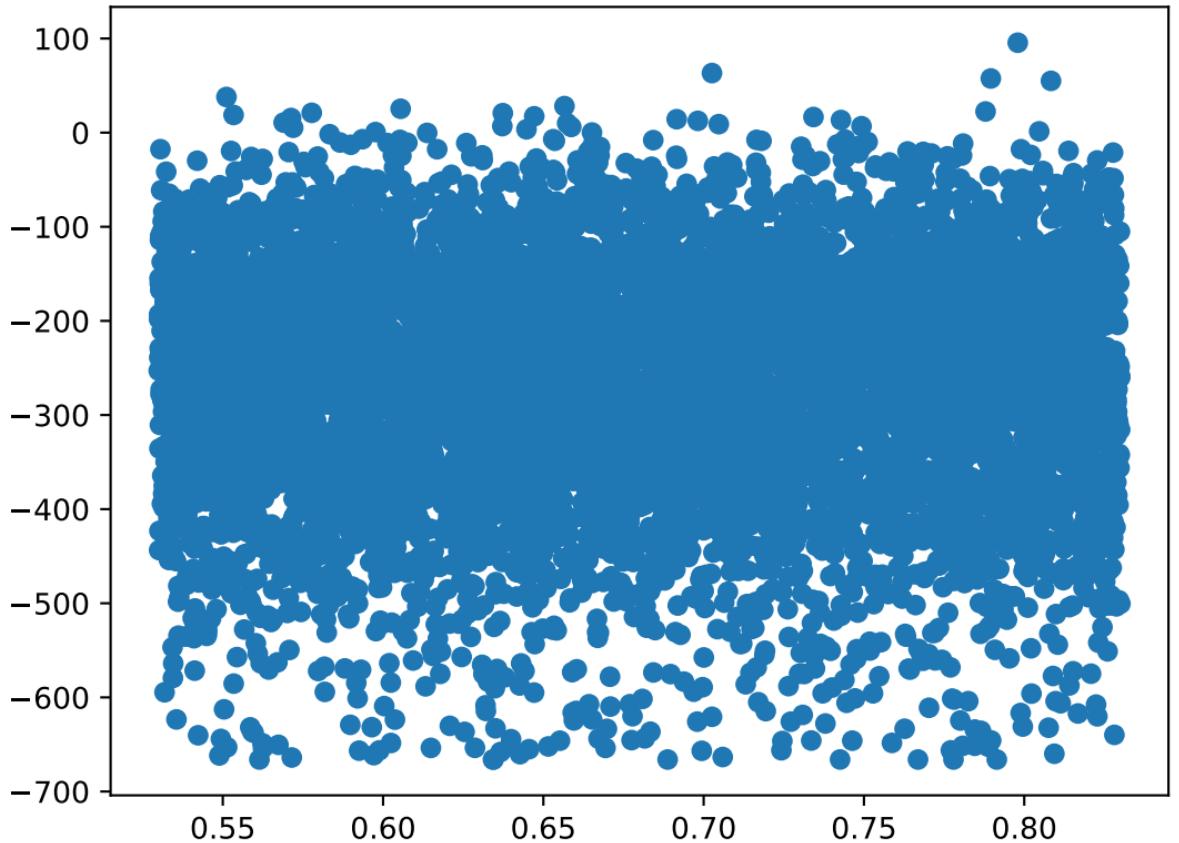
log obj func Surface_Abstraction_Beta/O-H;O/A



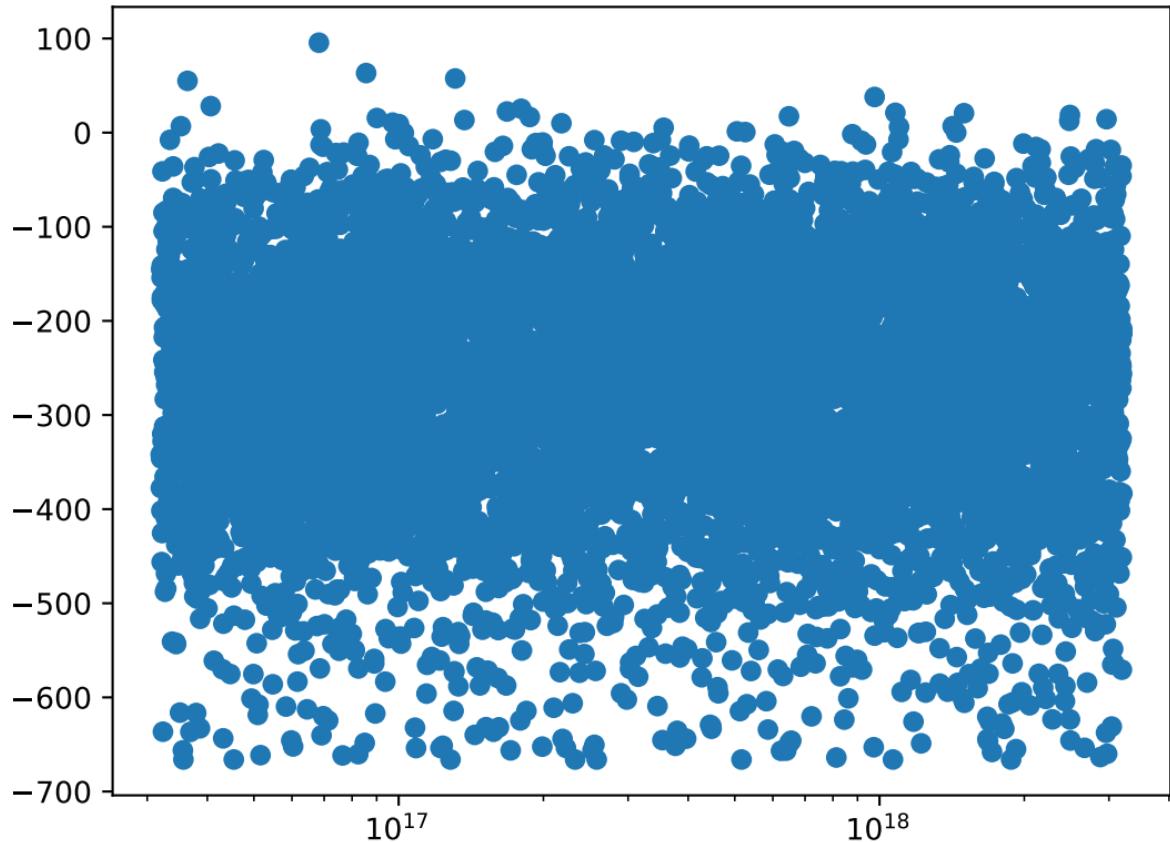
log obj func Surface_Abstraction_Beta/O-H;O/E0



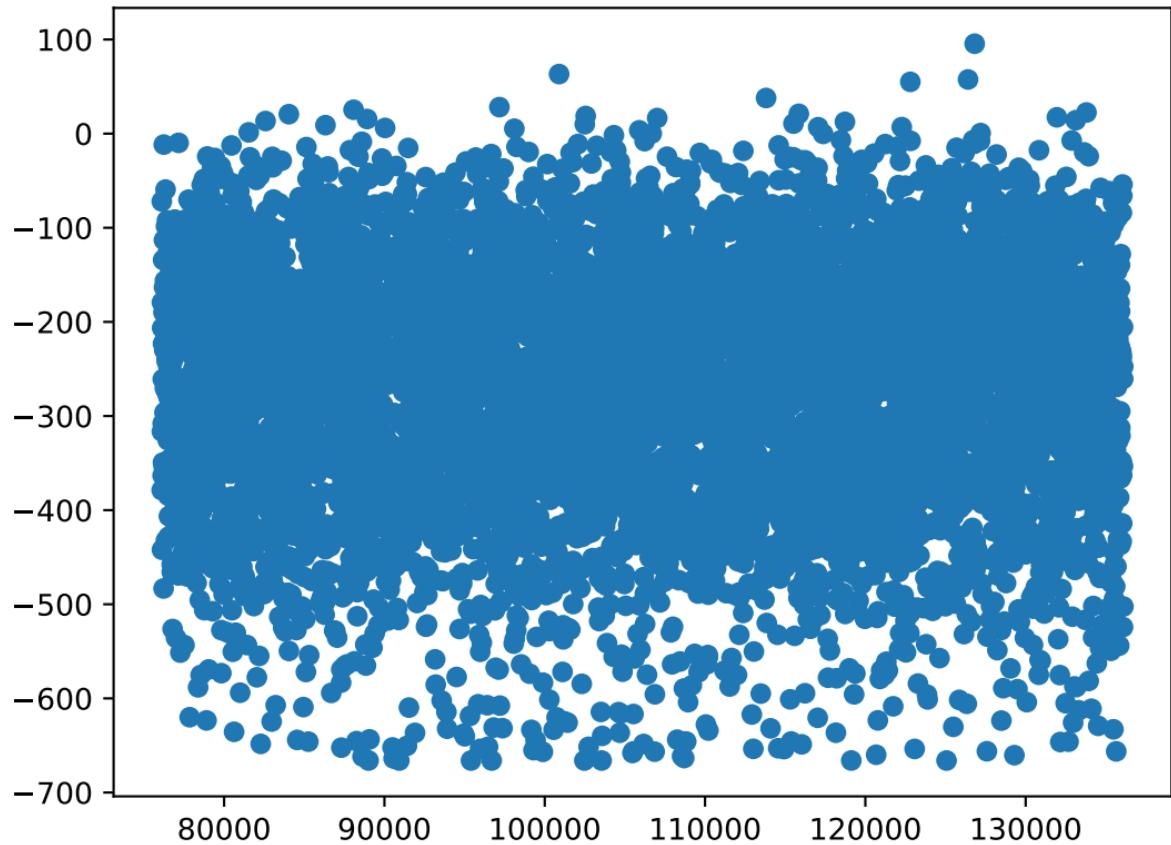
log obj func Surface_Abstraction_Beta_double_vdW/Combined;Adsorbate1/alpha



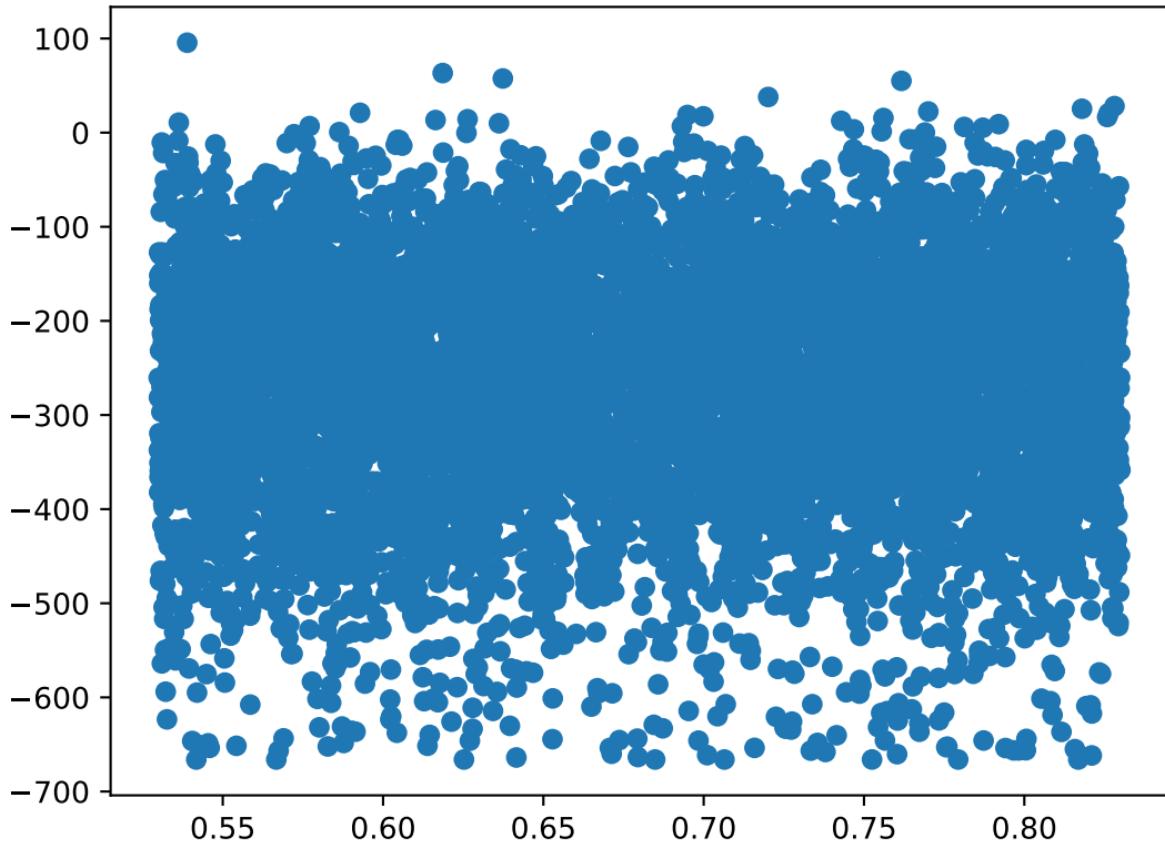
log obj func Surface_Abstraction_Beta_double_vdW/Combined;Adsorbate1/A



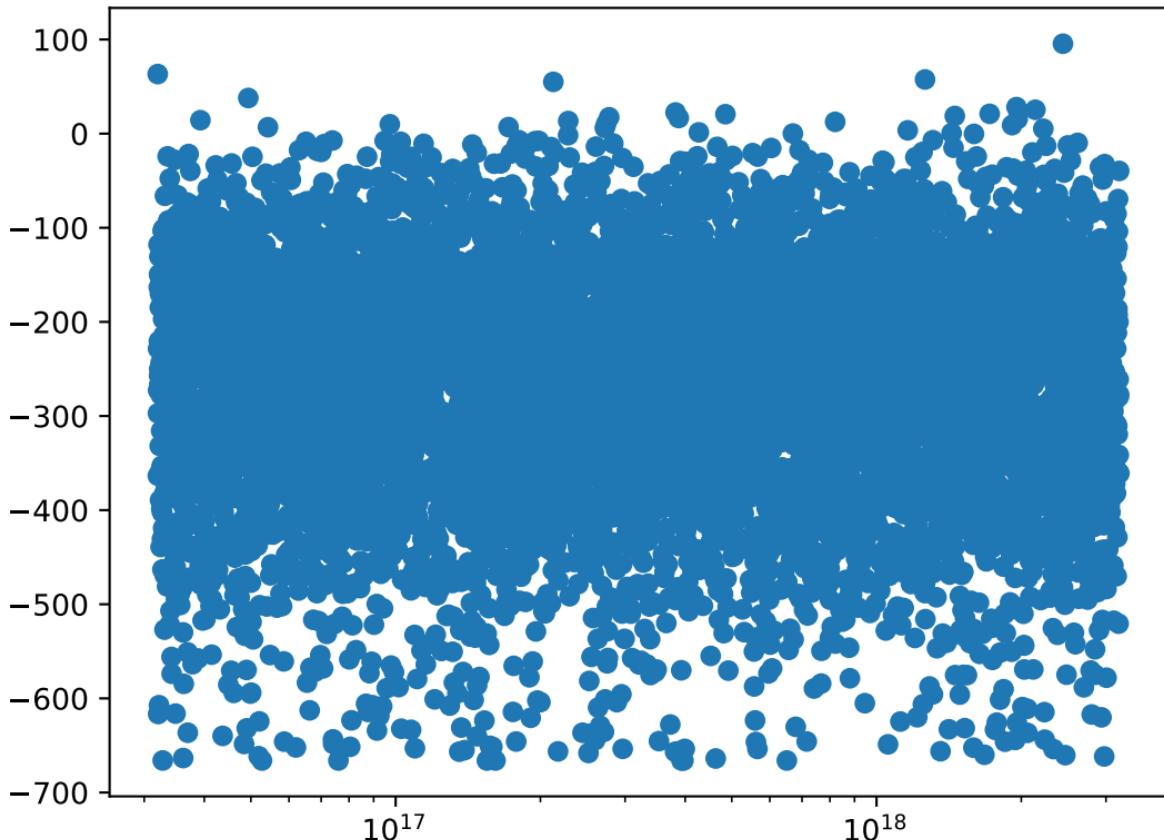
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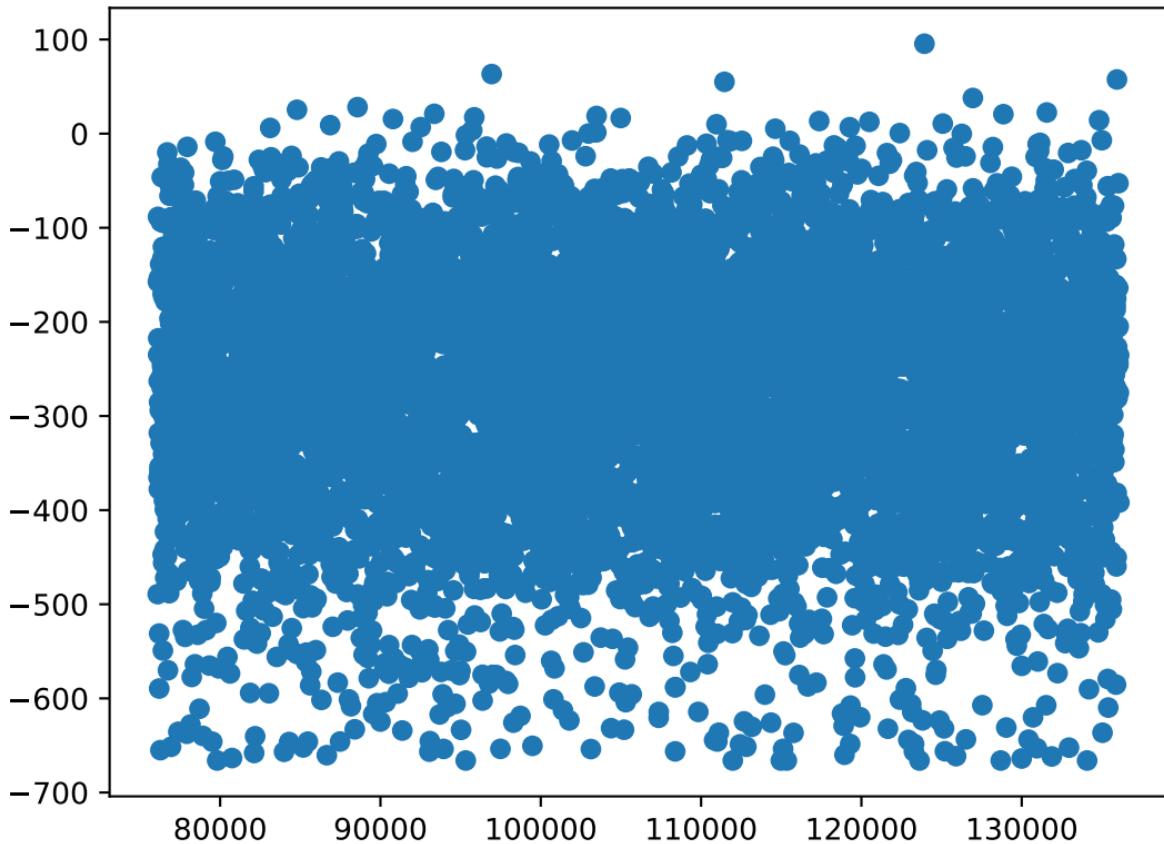
log obj func Surface_Abstraction_Beta_double_vdW/C-H;OH/alpha



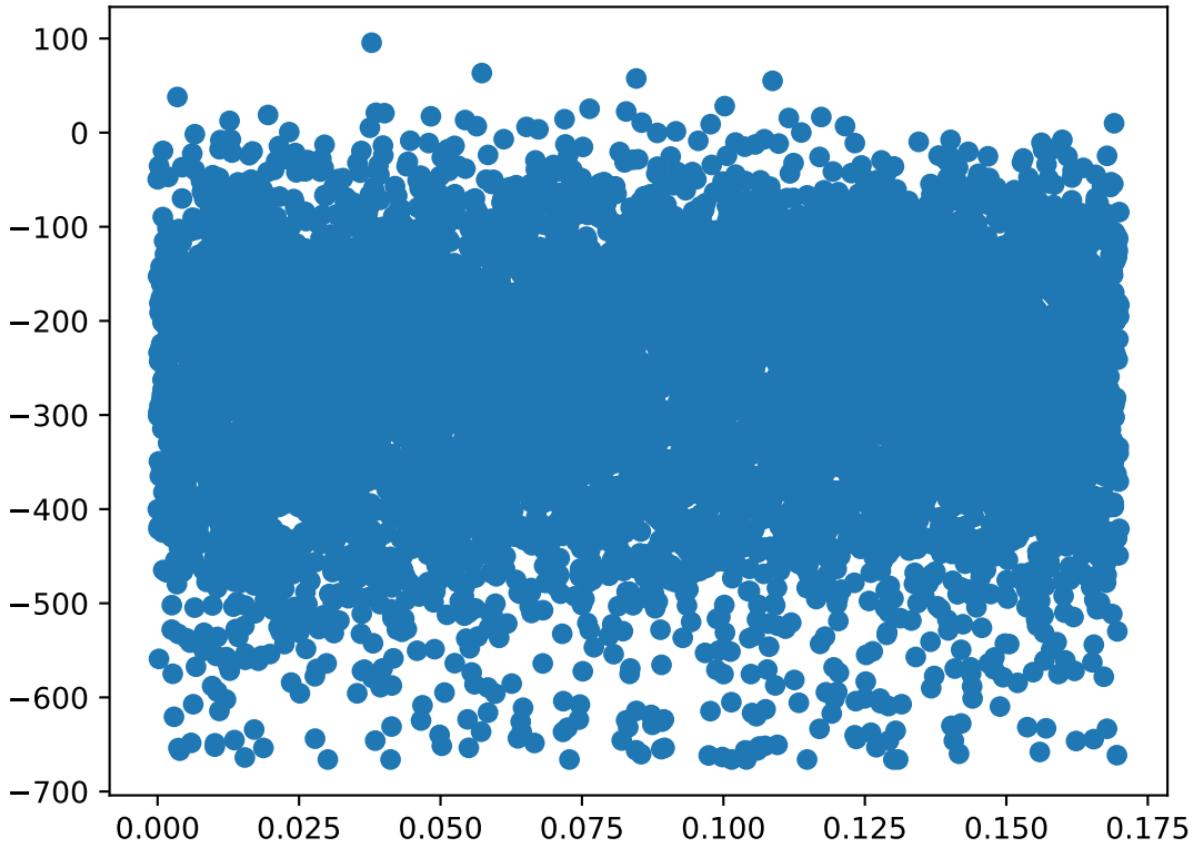
log obj func Surface_Abstraction_Beta_double_vdW/C-H;OH/A



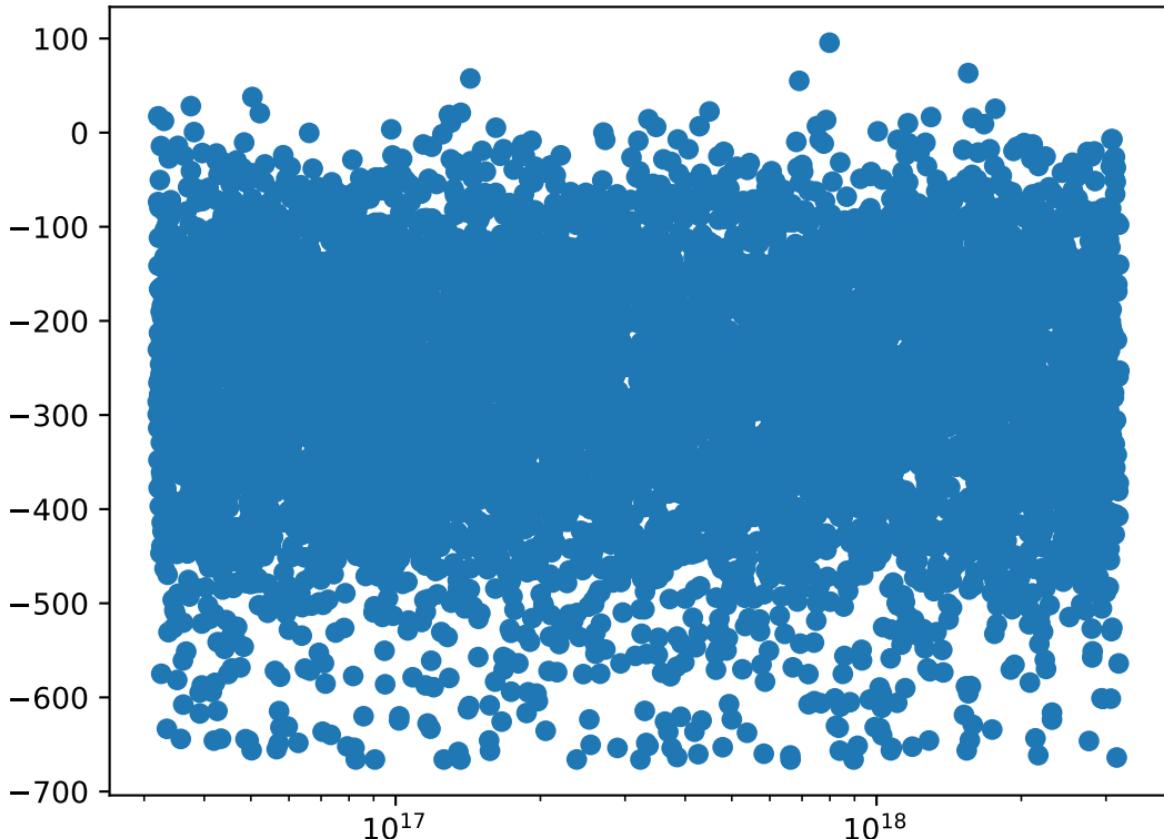
log obj func Surface_Abstraction_Beta_double_vdW/C-H;OH/E0



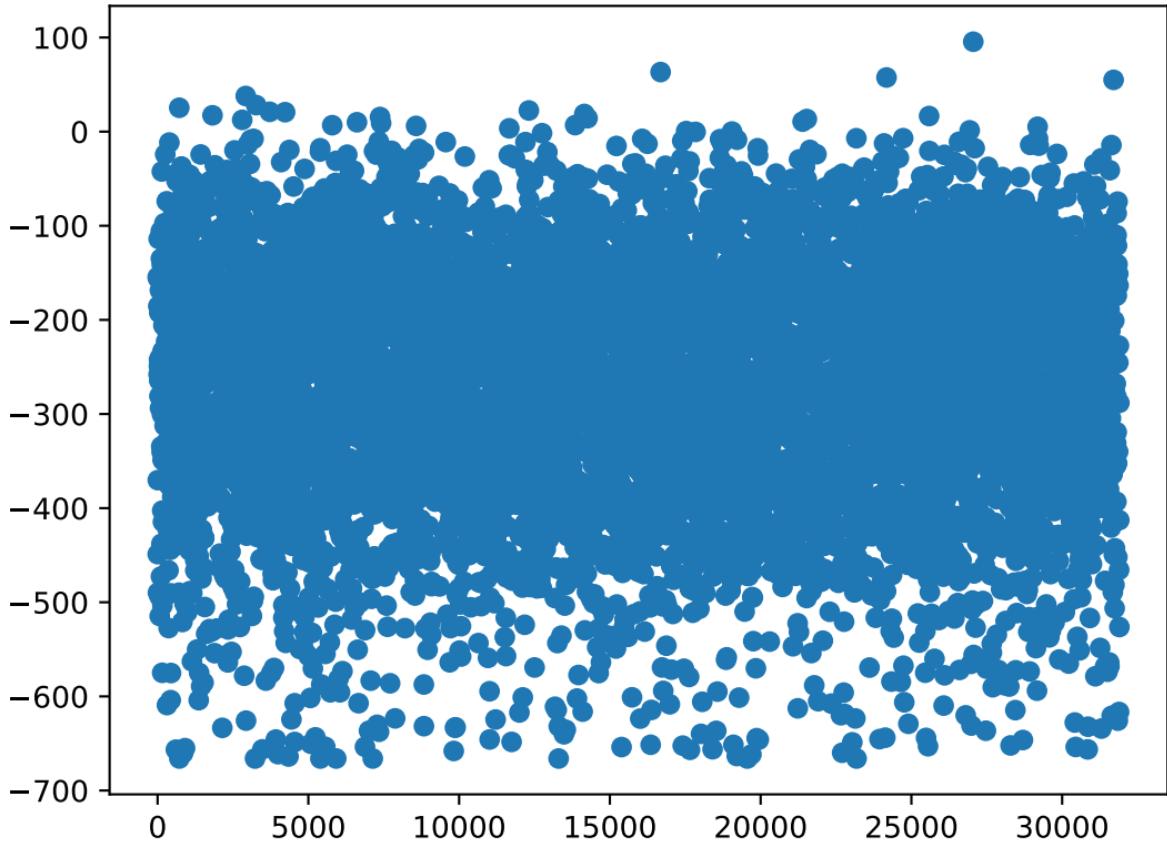
log obj func Surface_Abstraction_Beta_double_vdW/O-H;OH/alpha



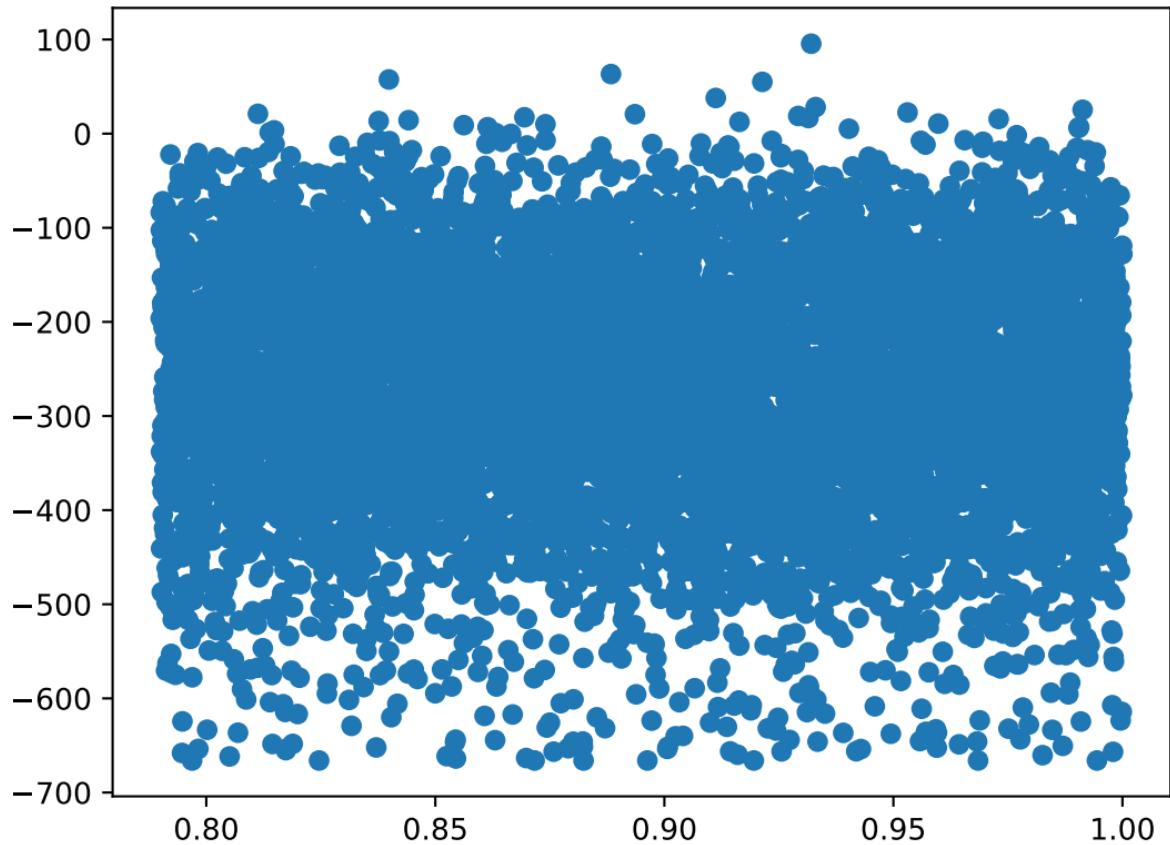
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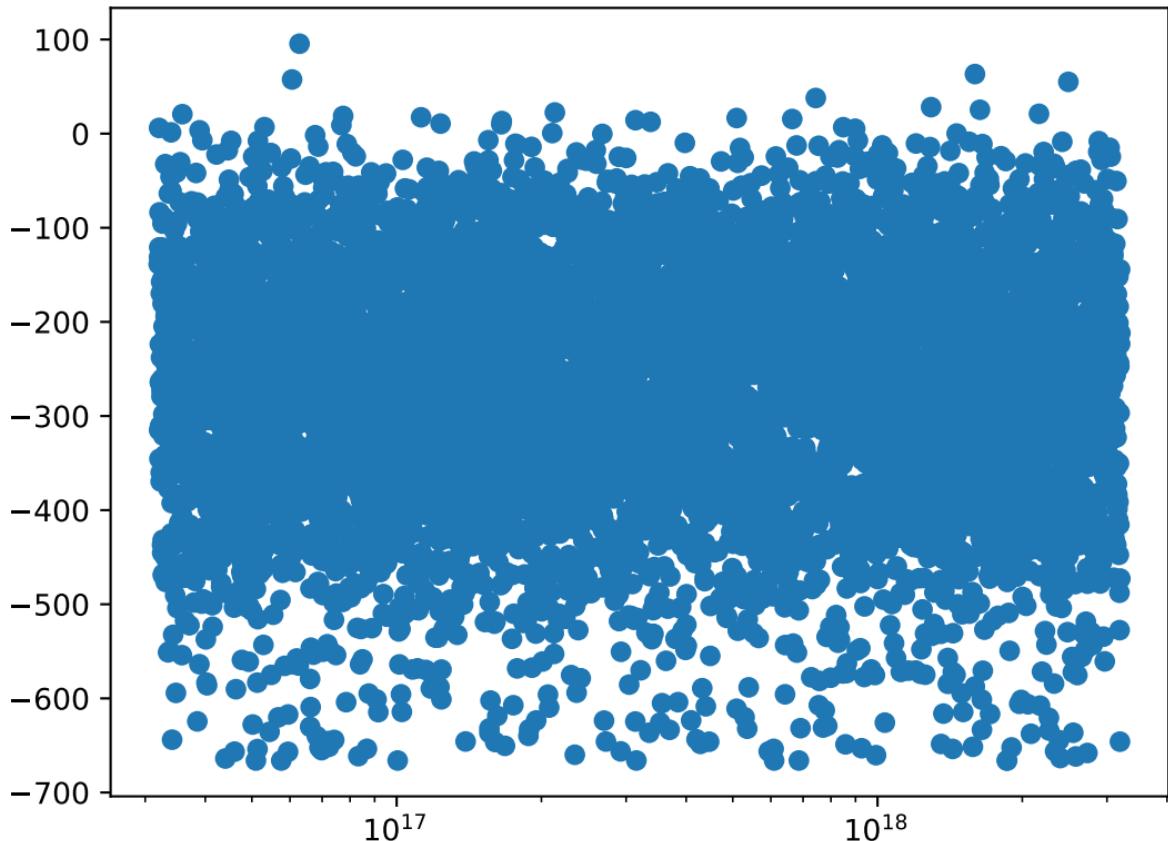
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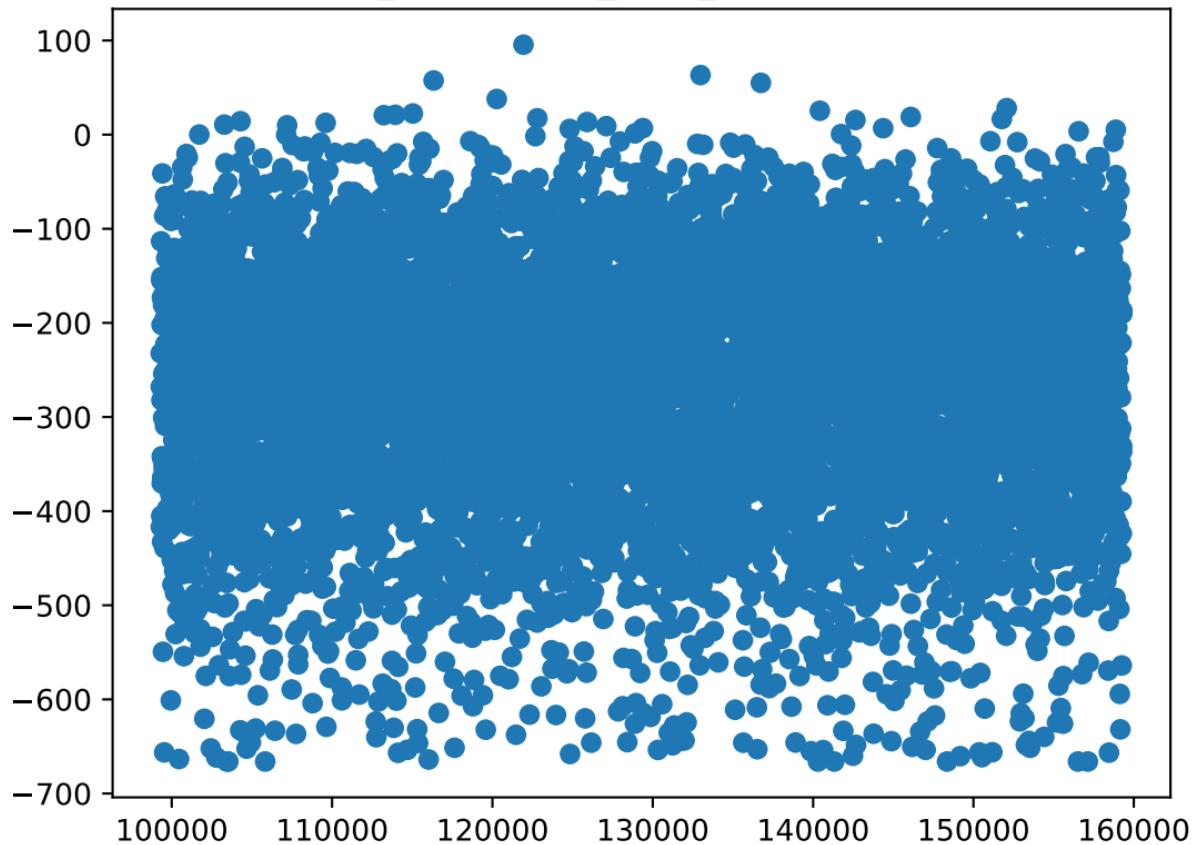
log obj func Surface_Abstraction_Beta_vdW/Combined;Adsorbate1/alpha



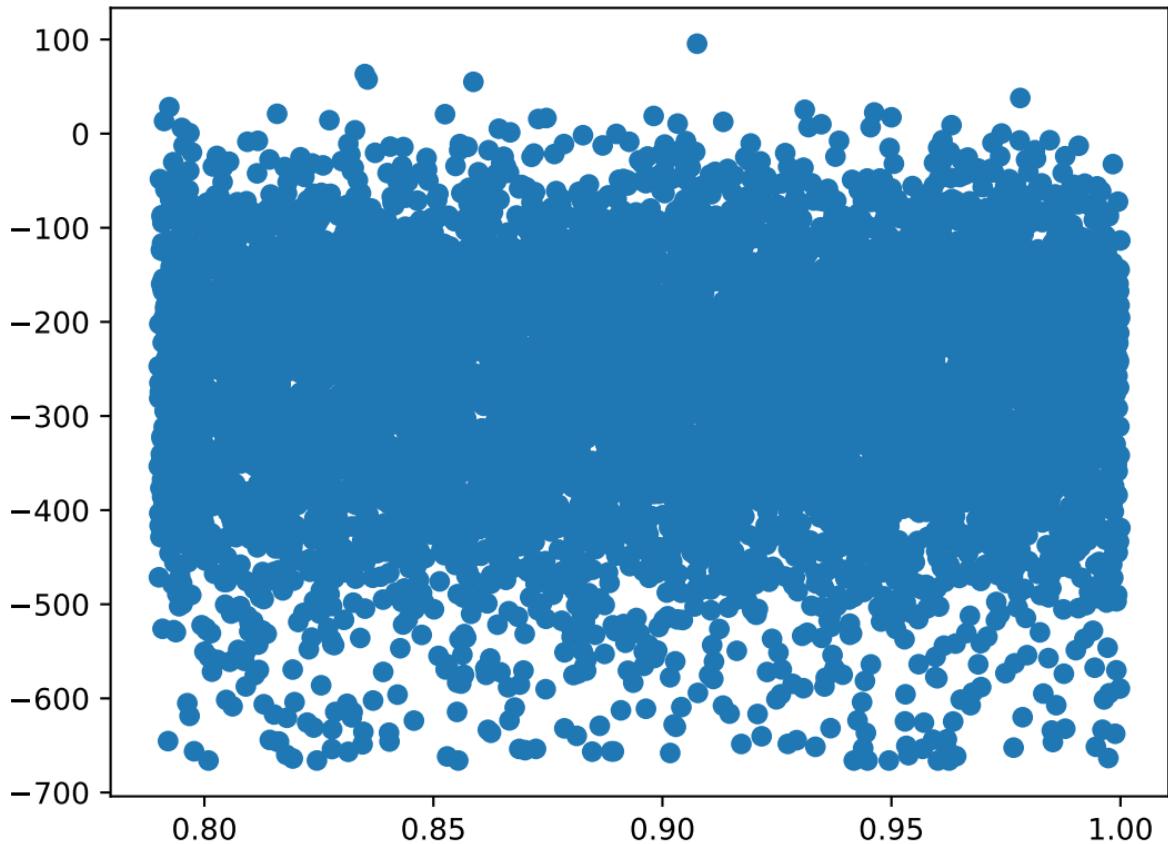
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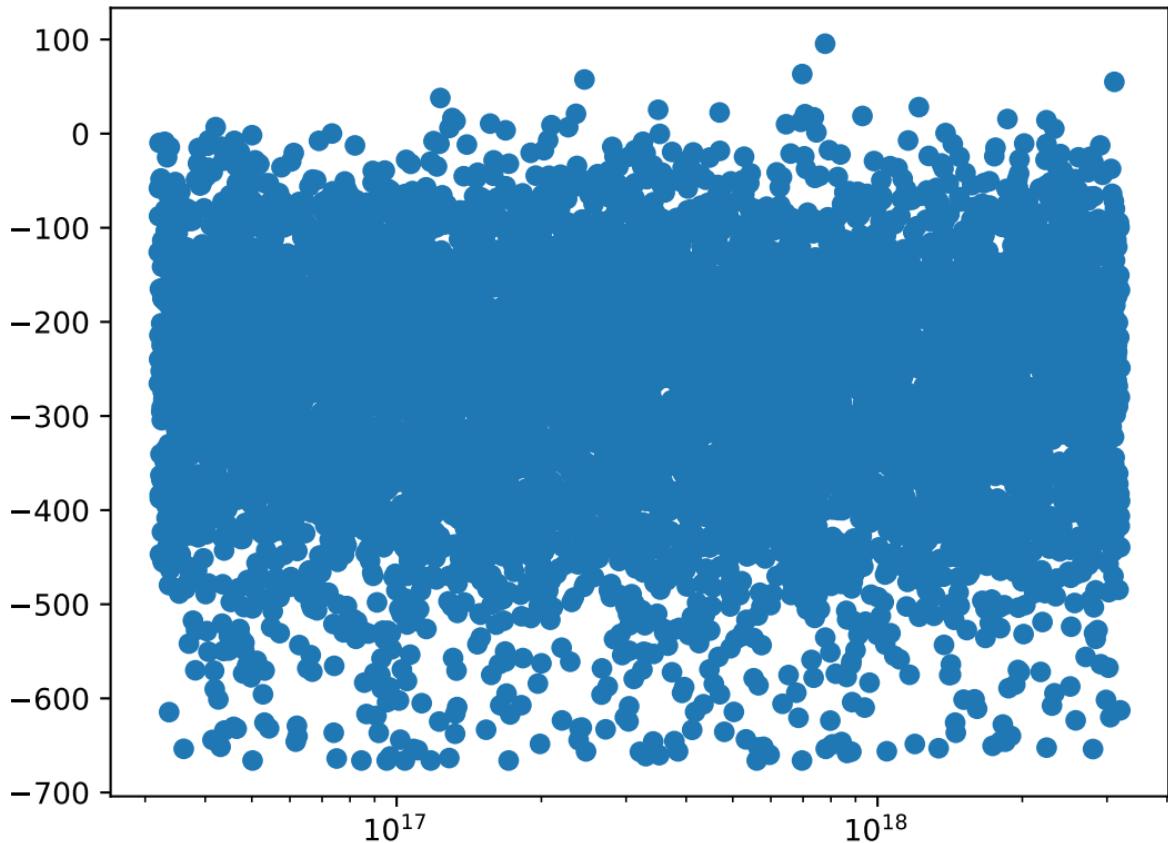
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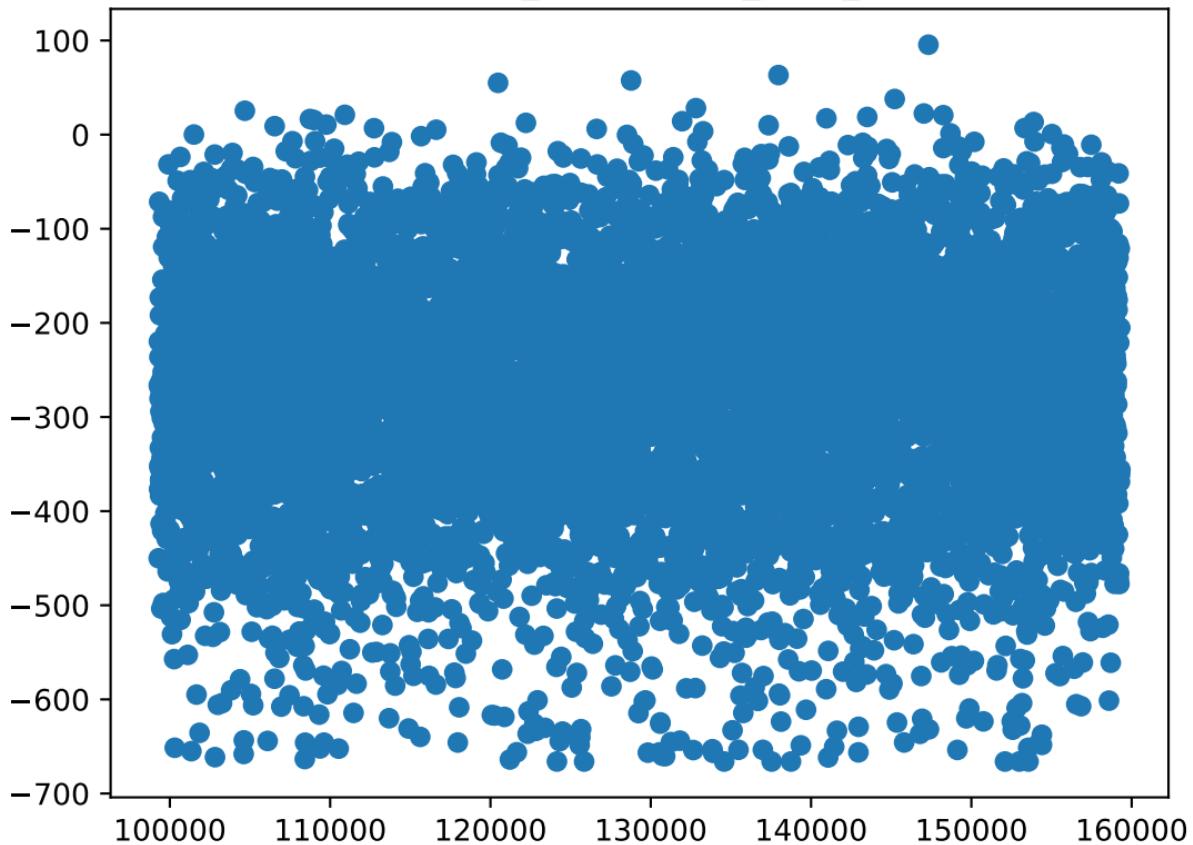
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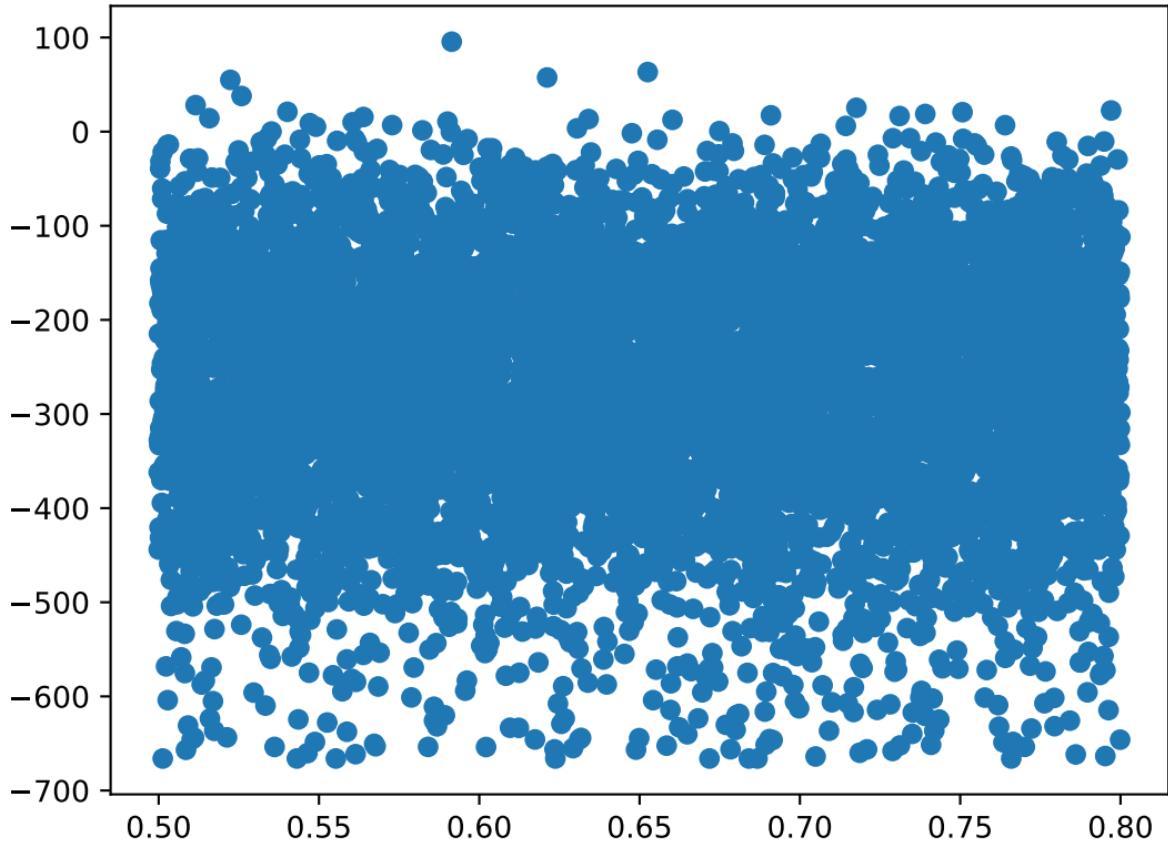
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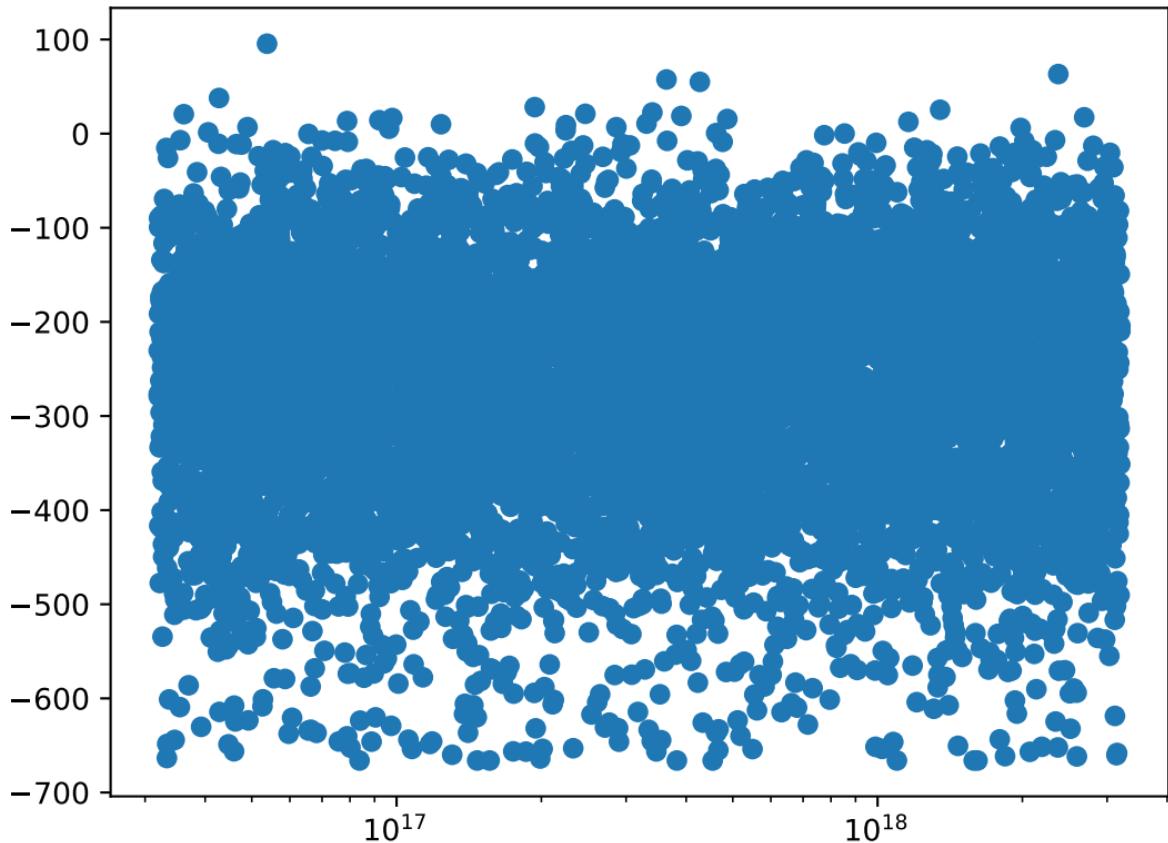
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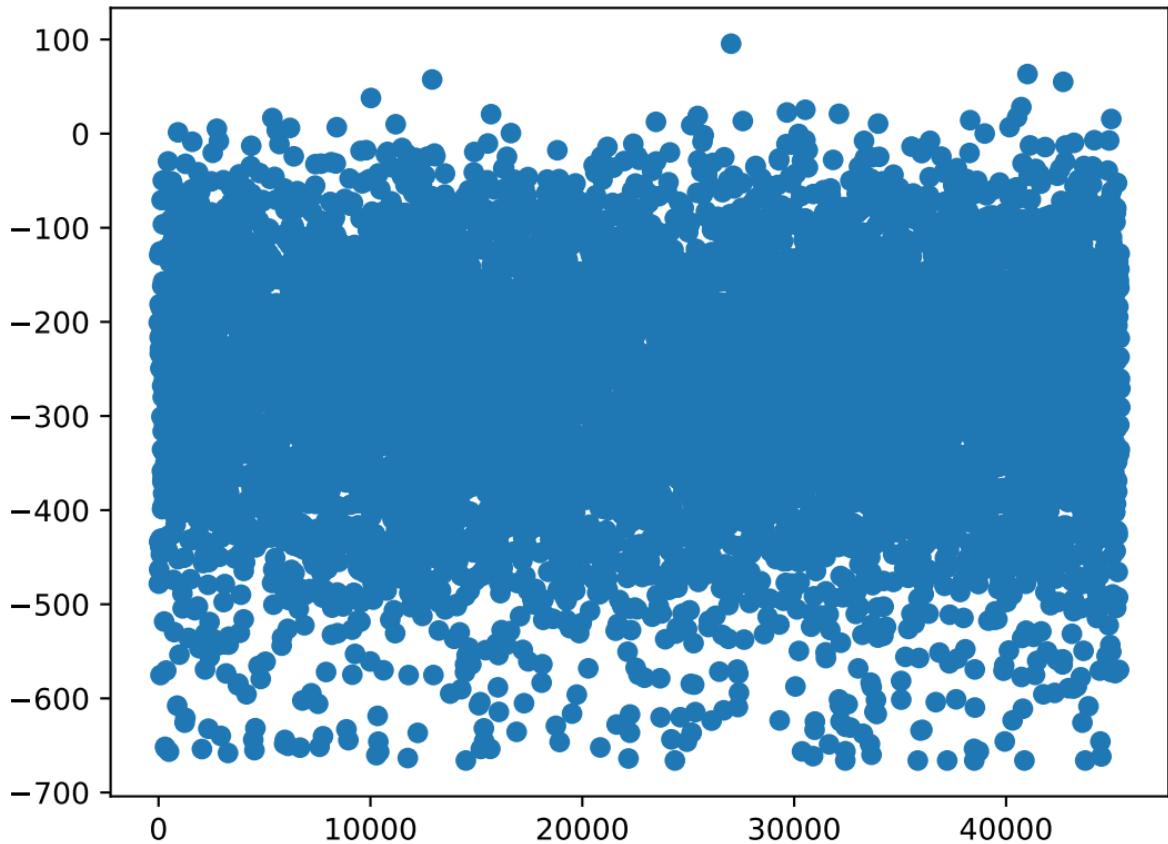
log obj func Surface_Abstraction_Beta_vdW/O-H;O/alpha



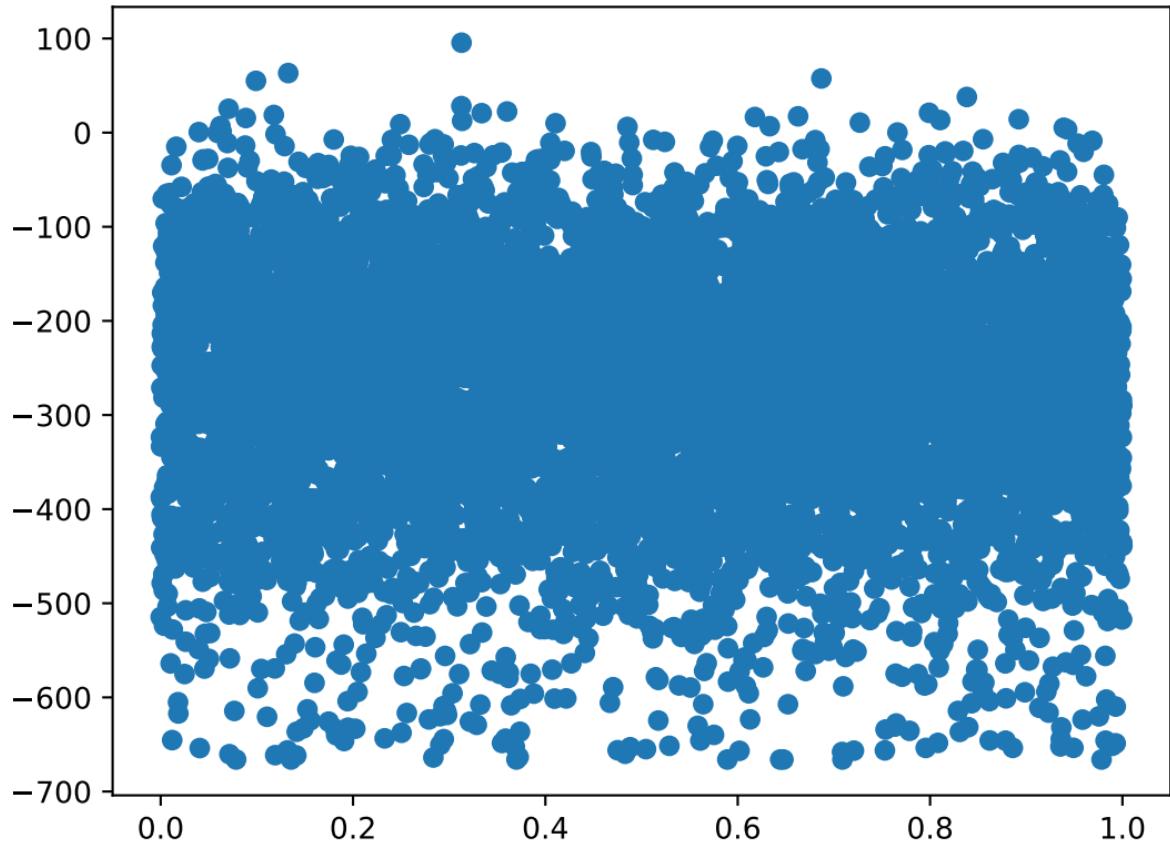
log obj func Surface_Abstraction_Beta_vdW/O-H;O/A



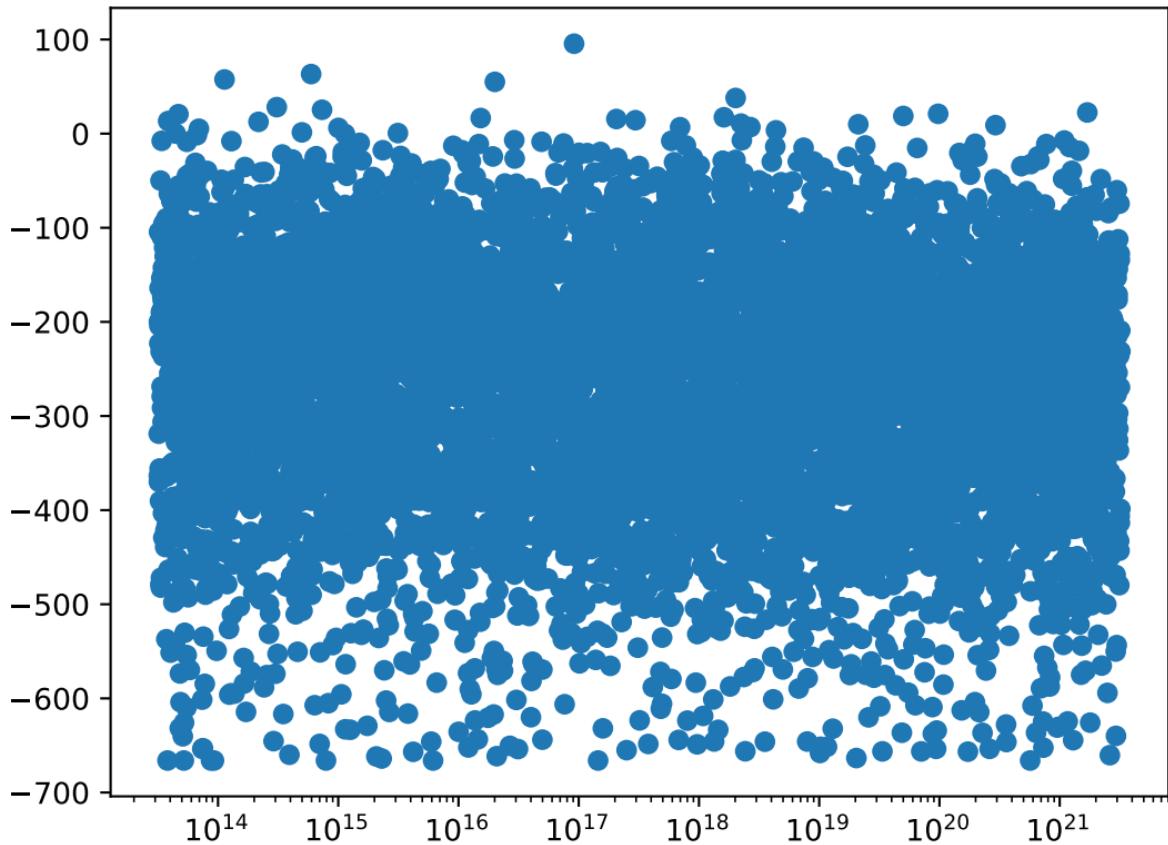
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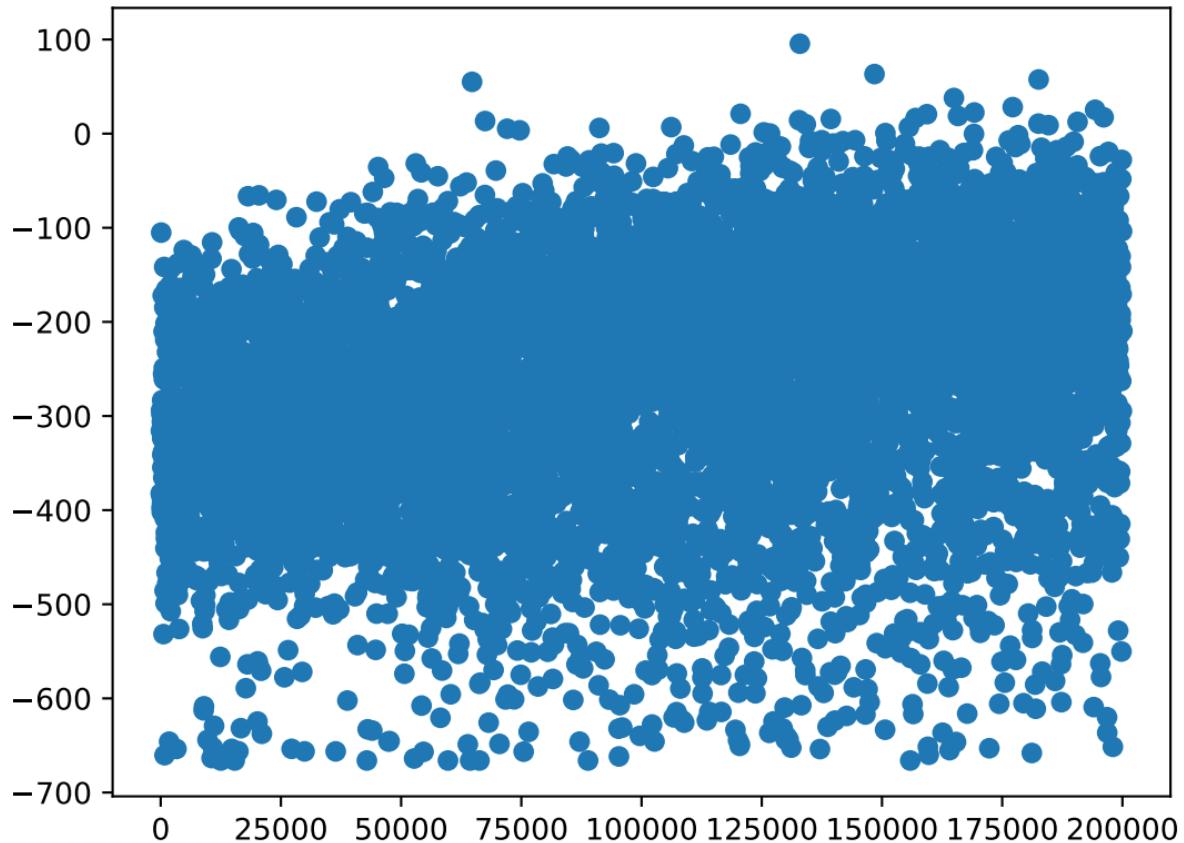
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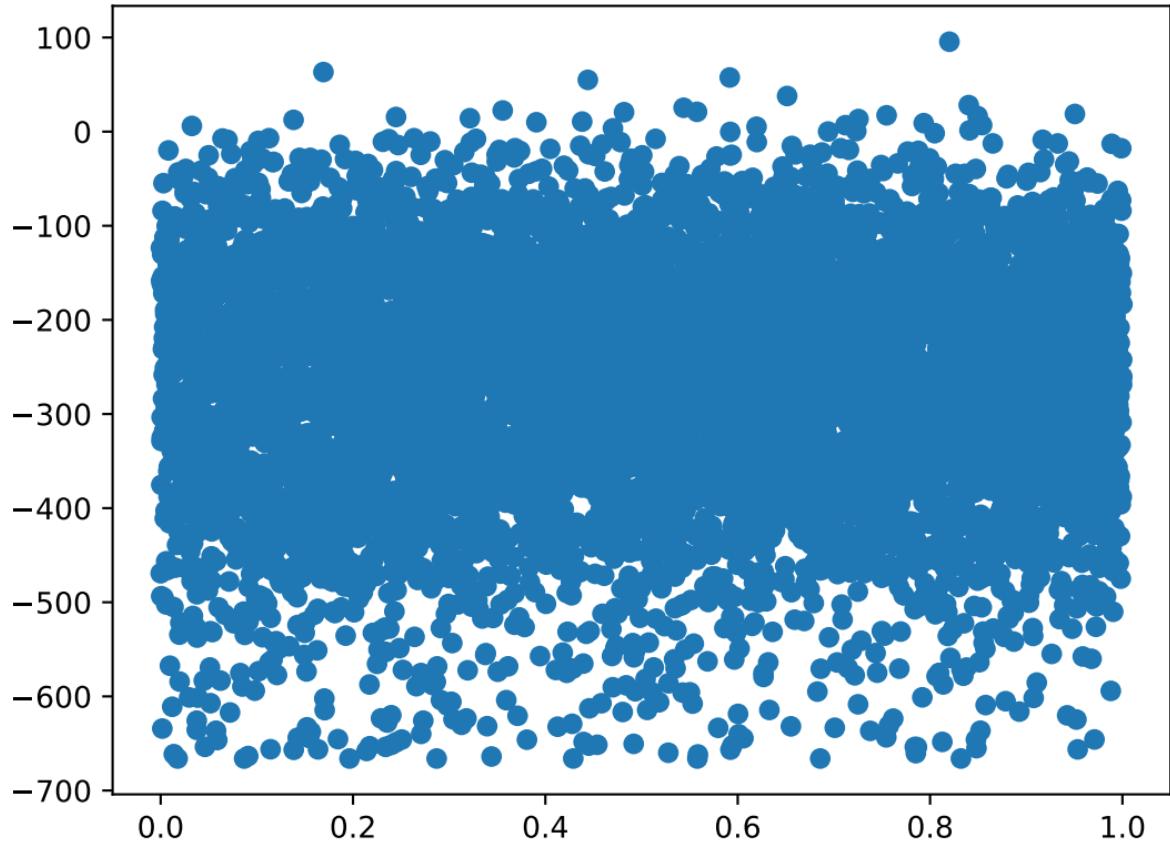
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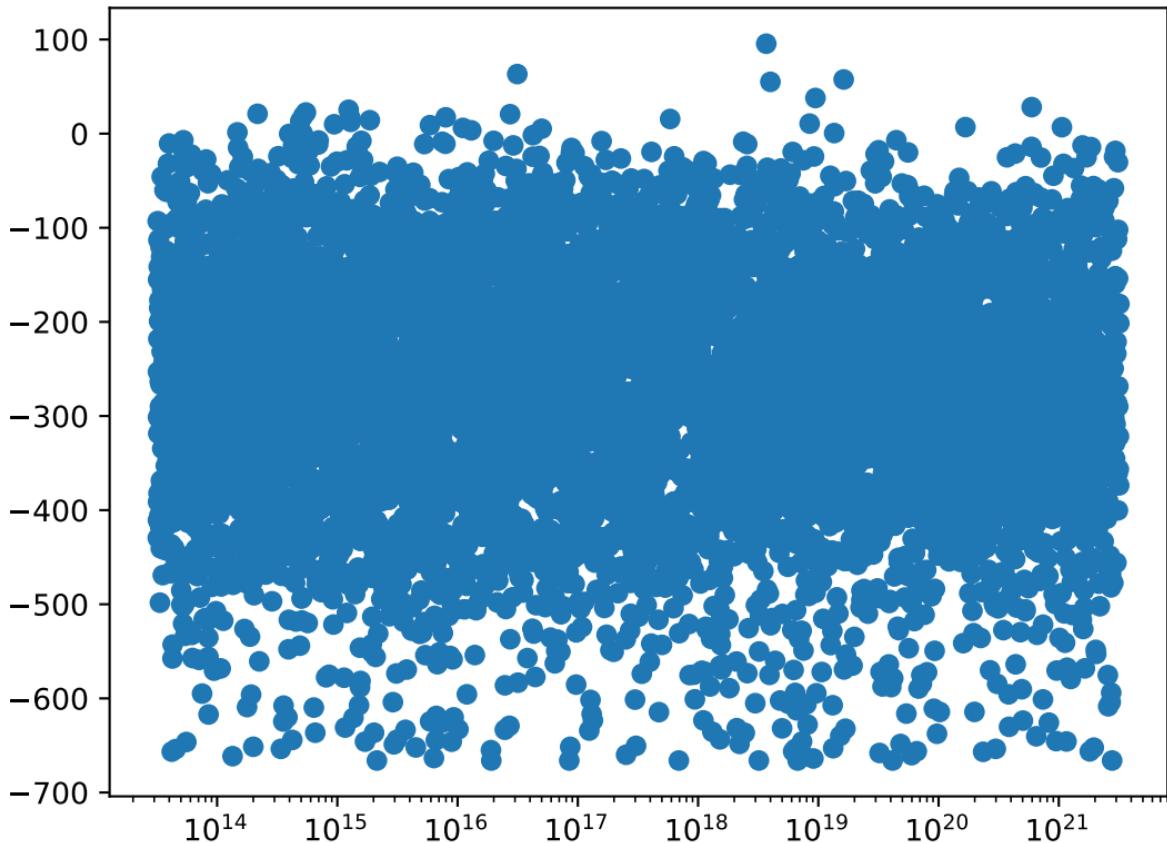
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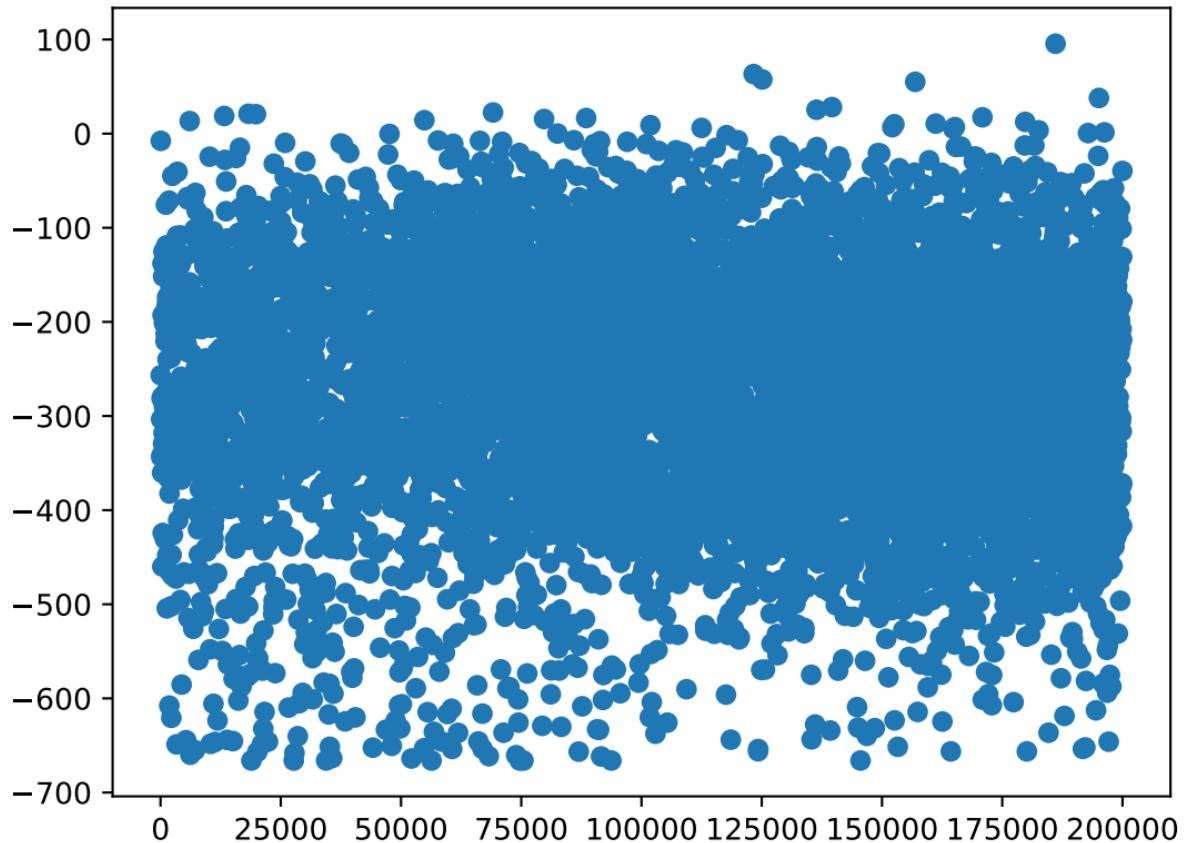
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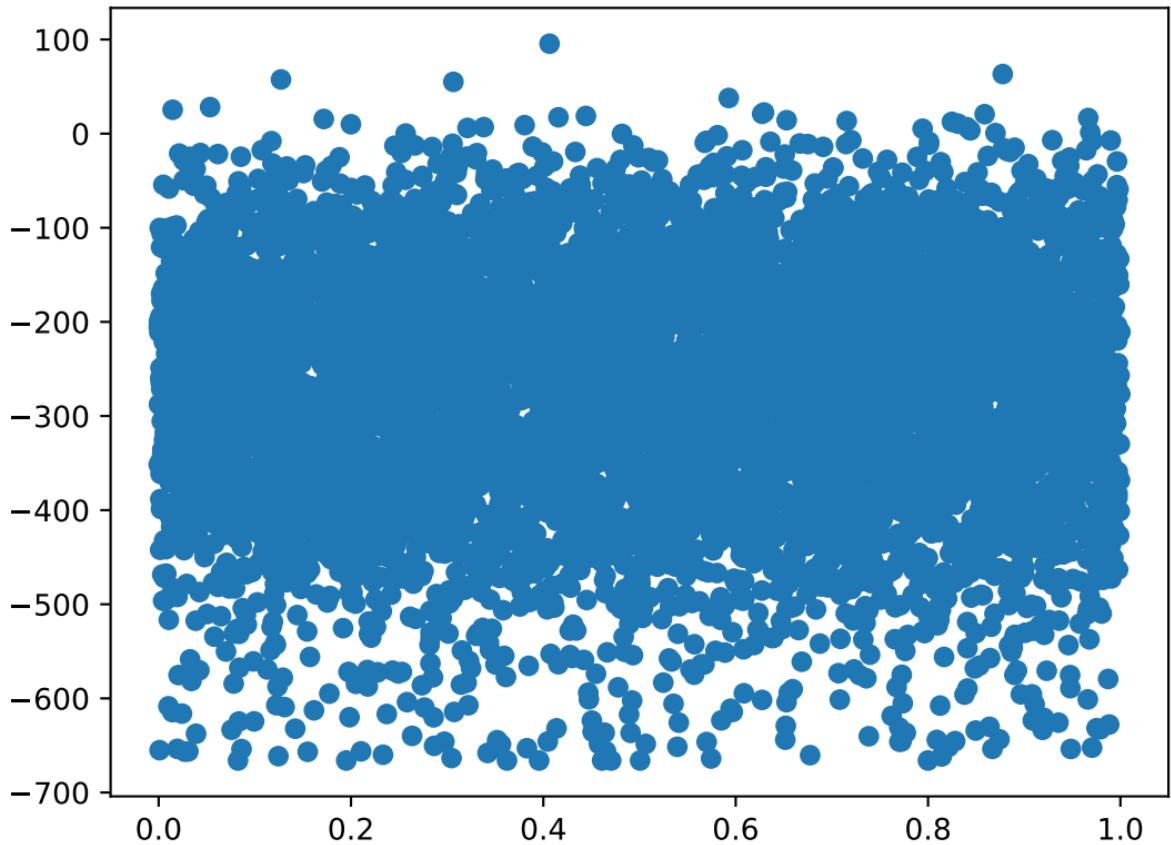
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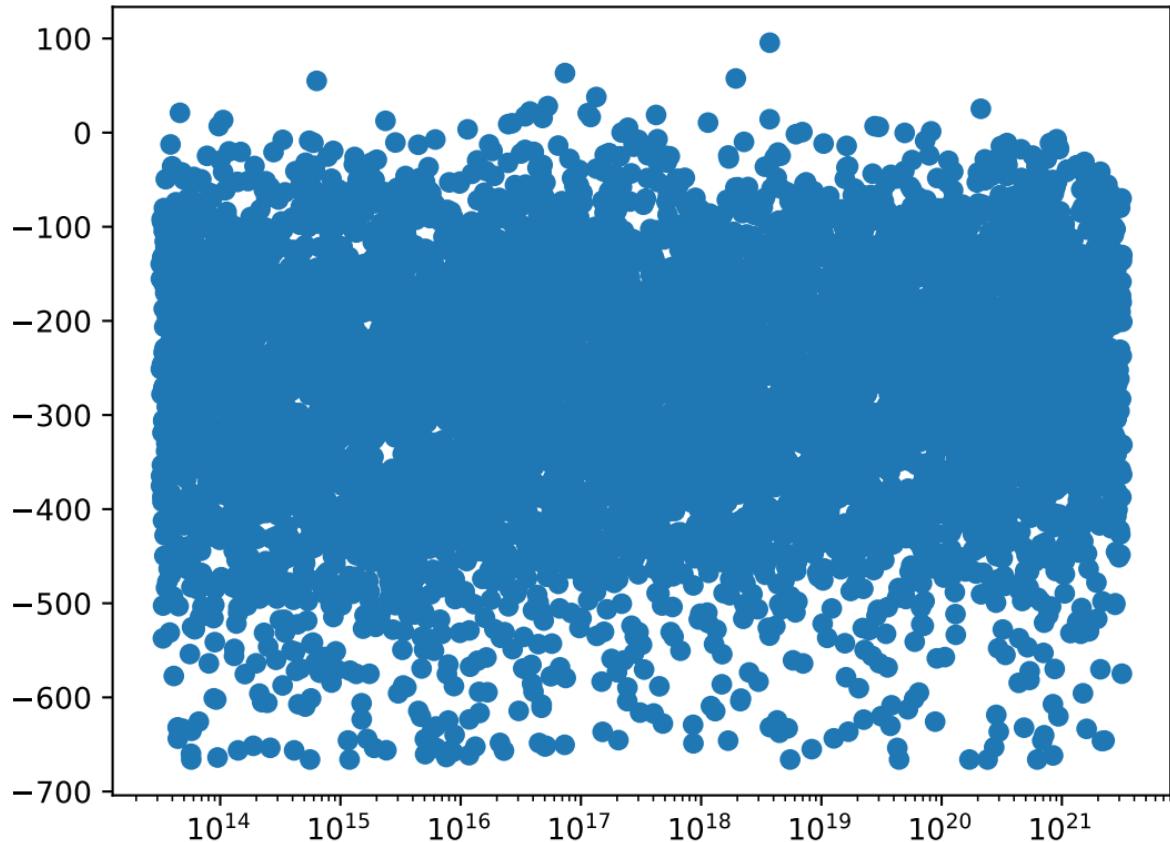
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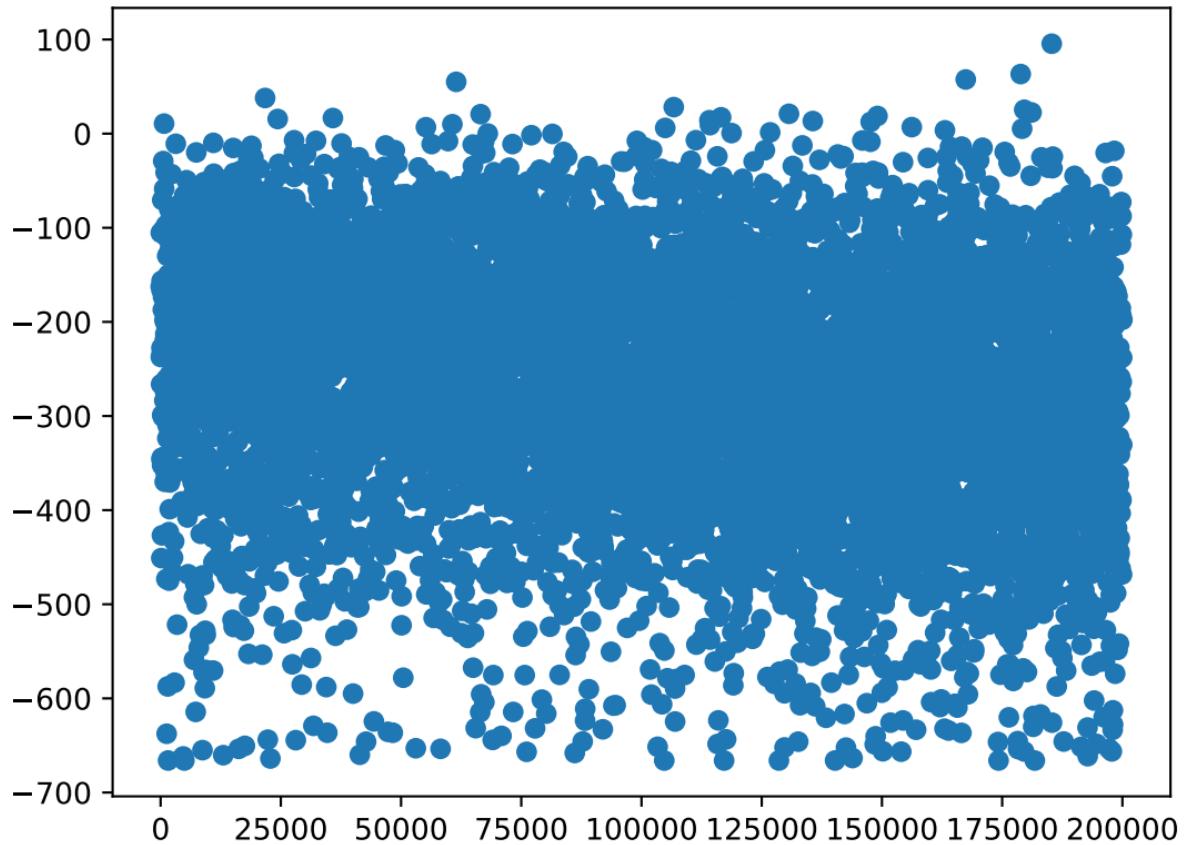
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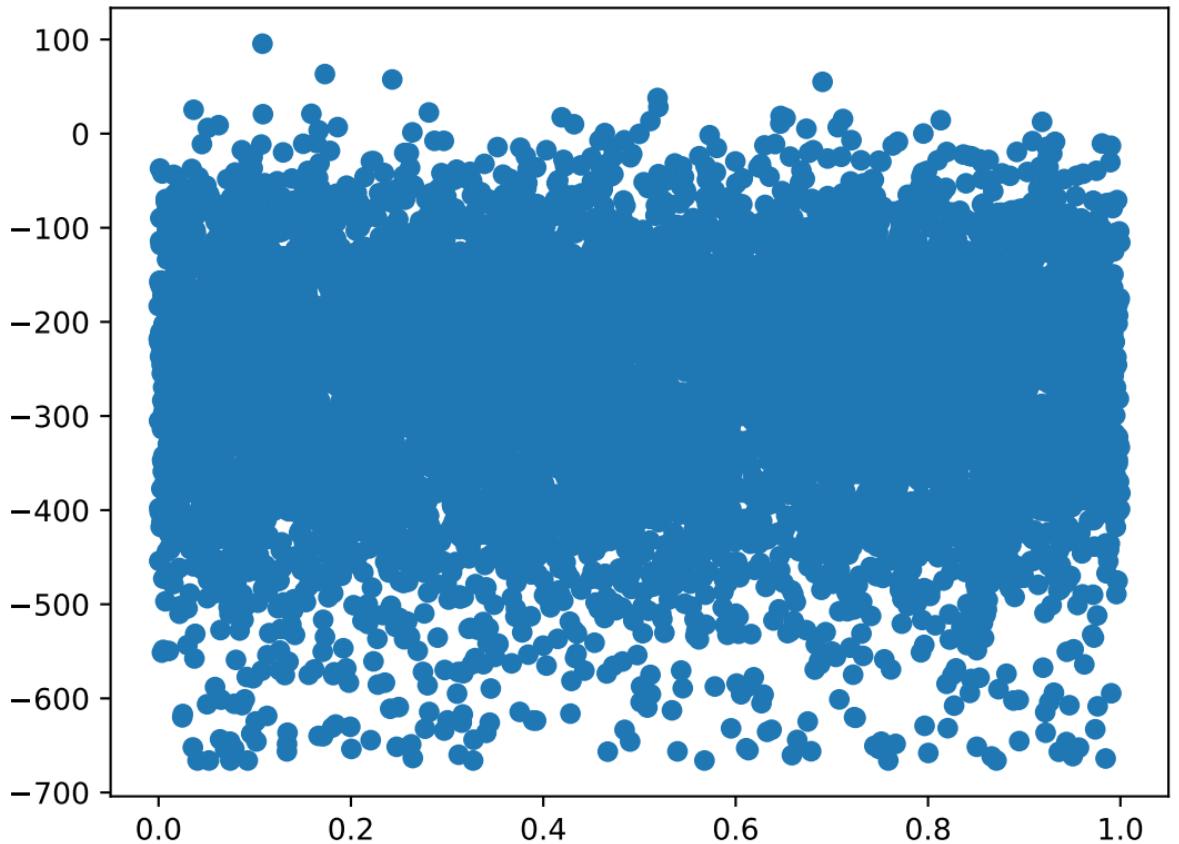
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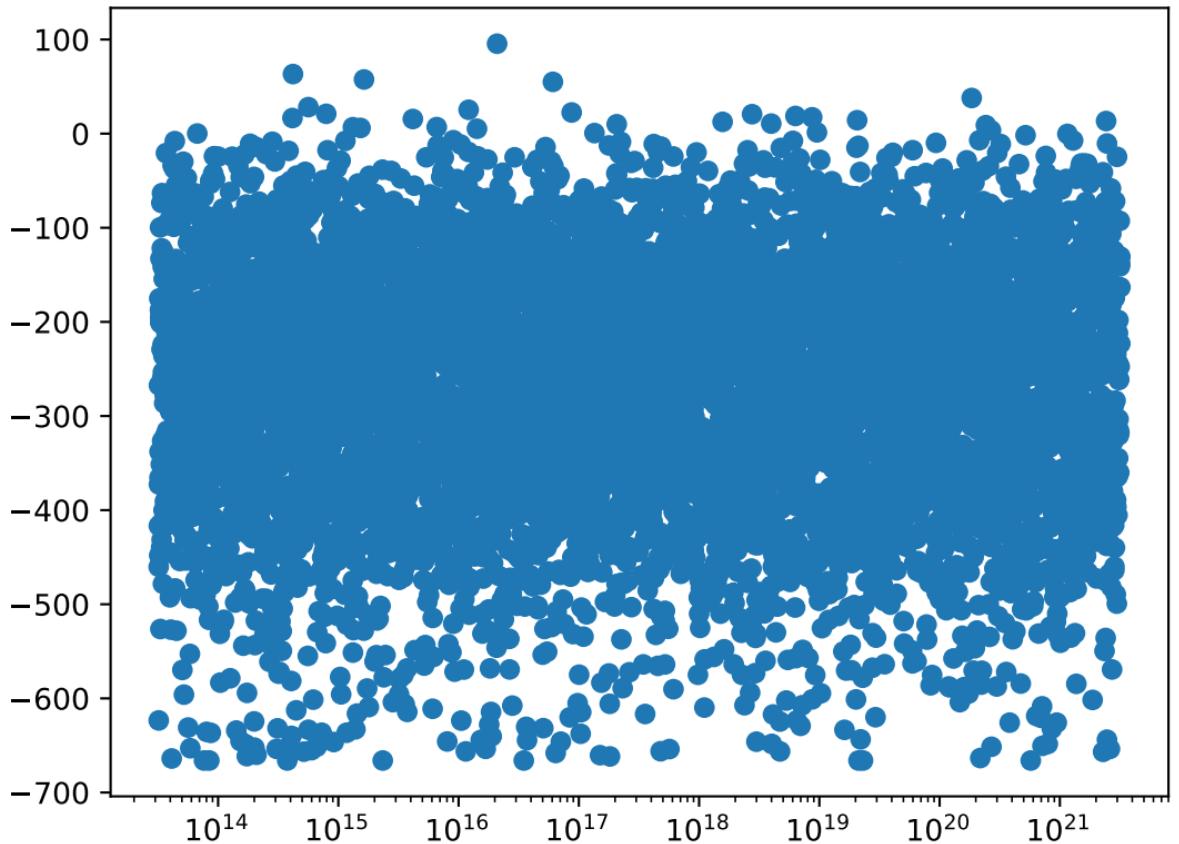
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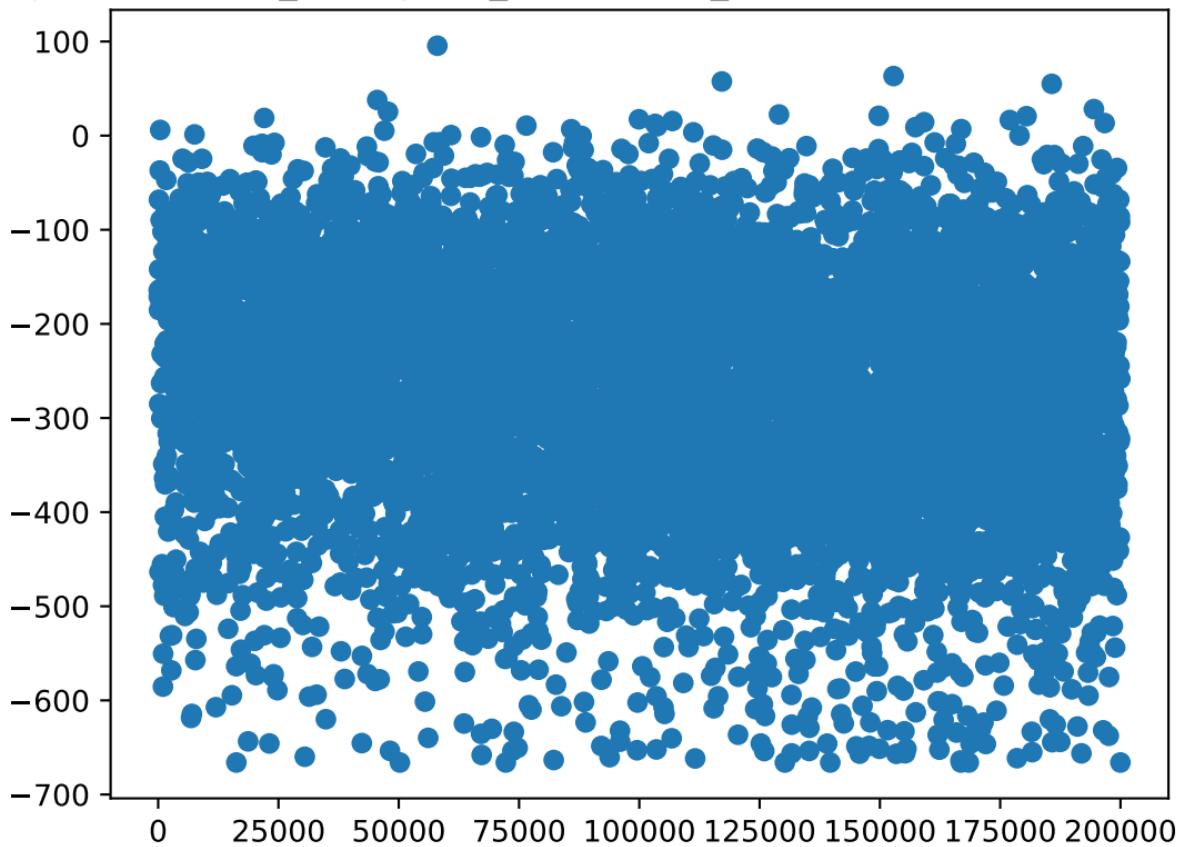
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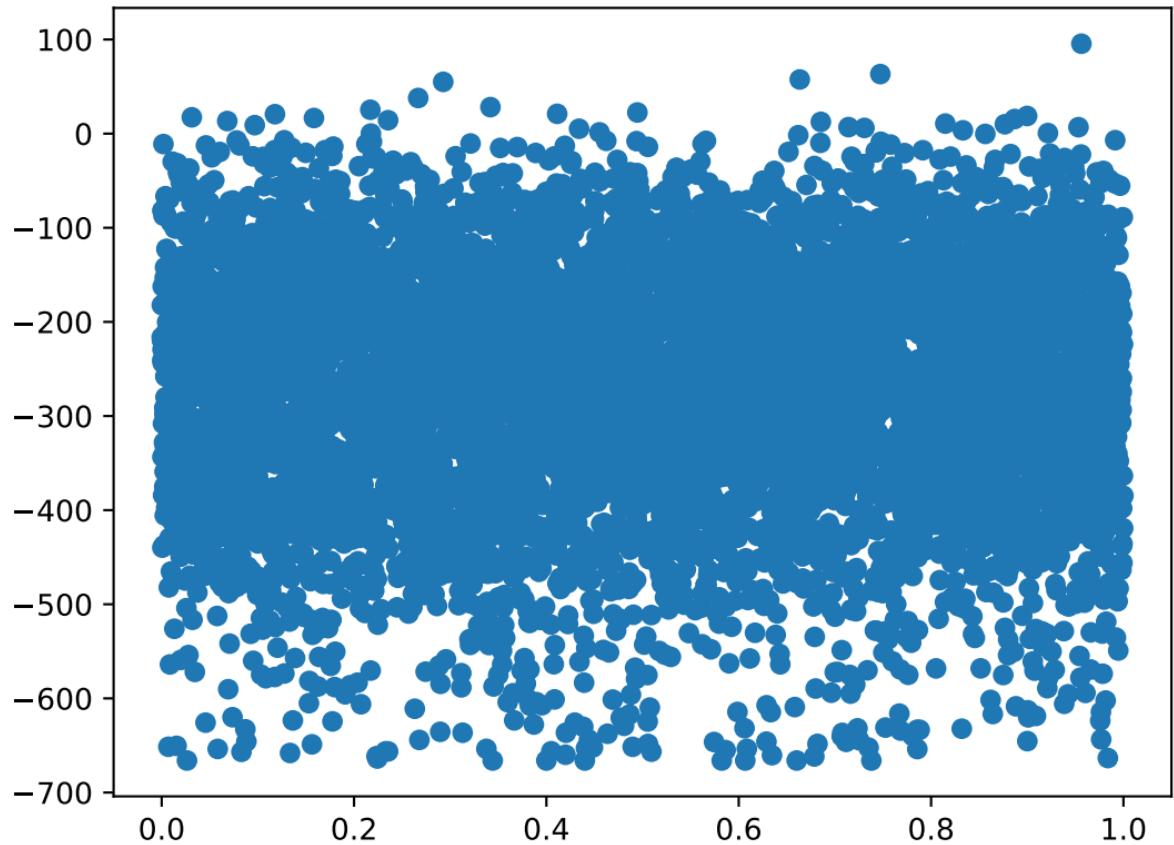
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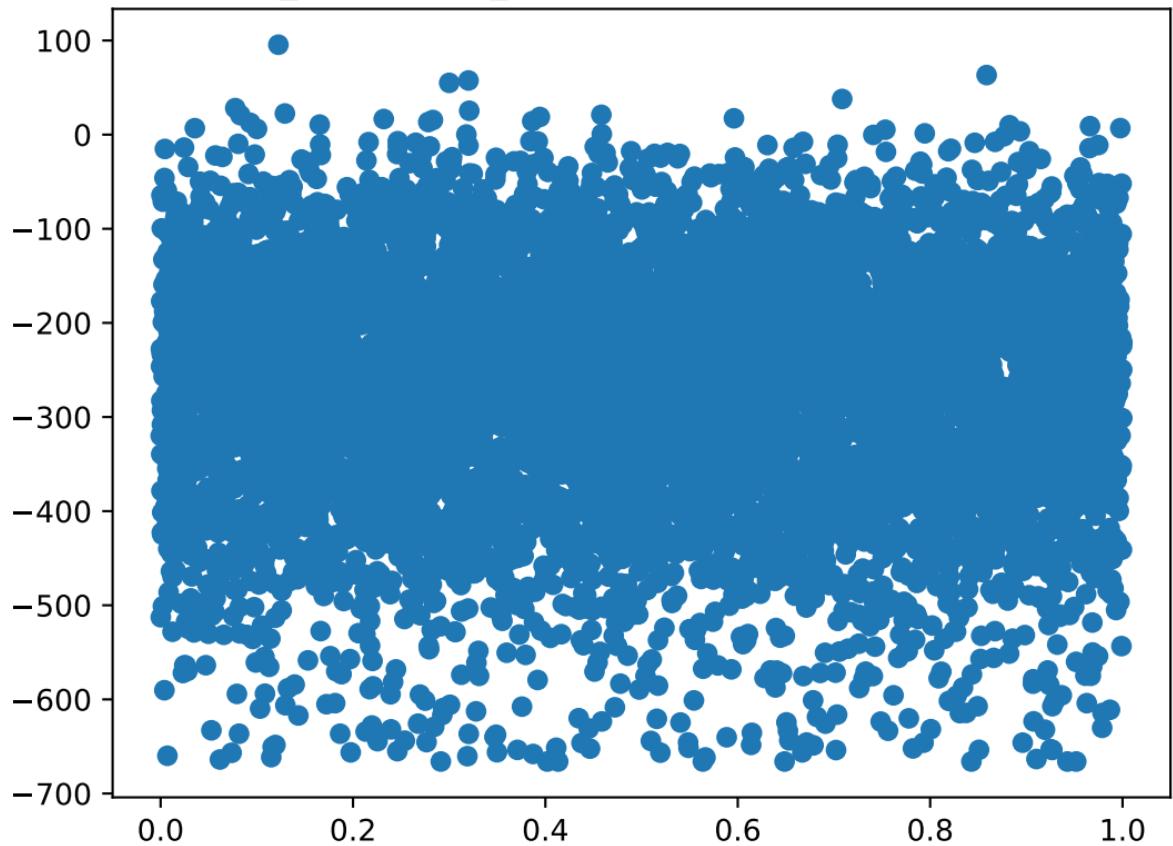
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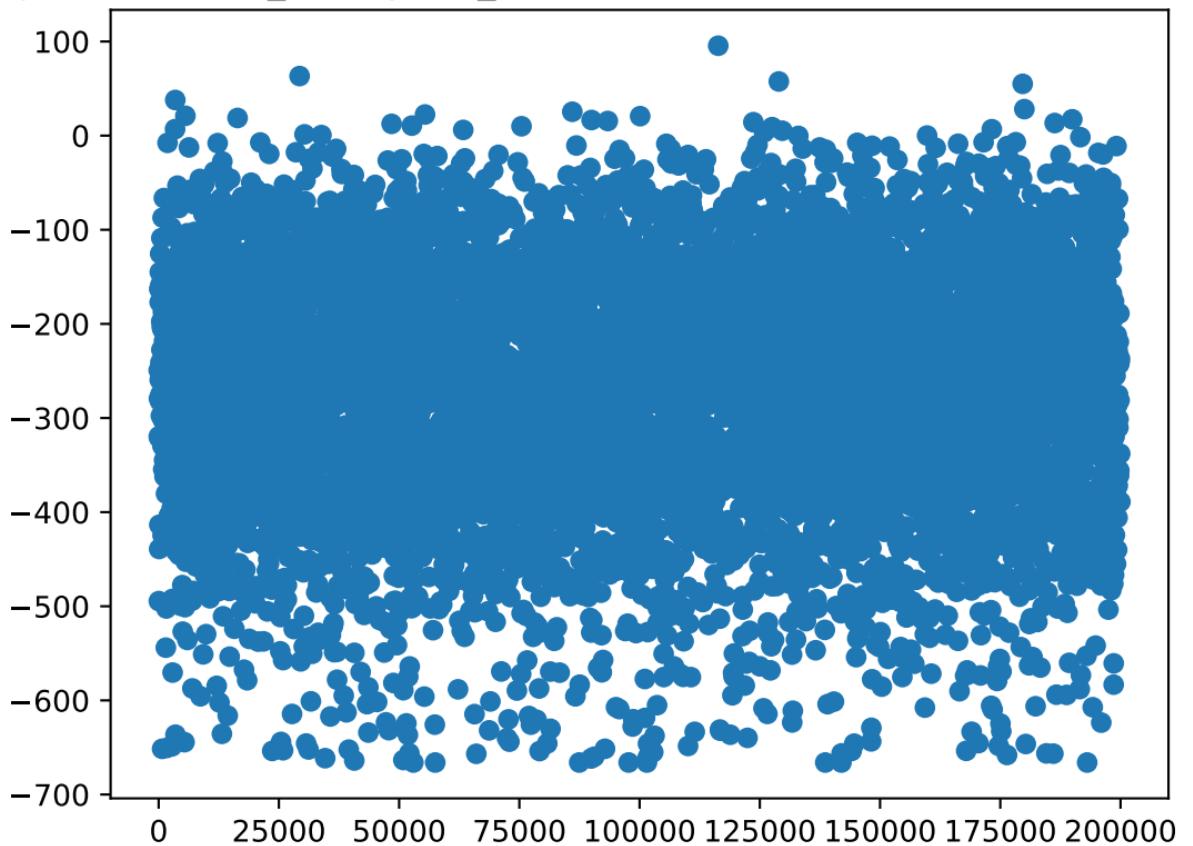
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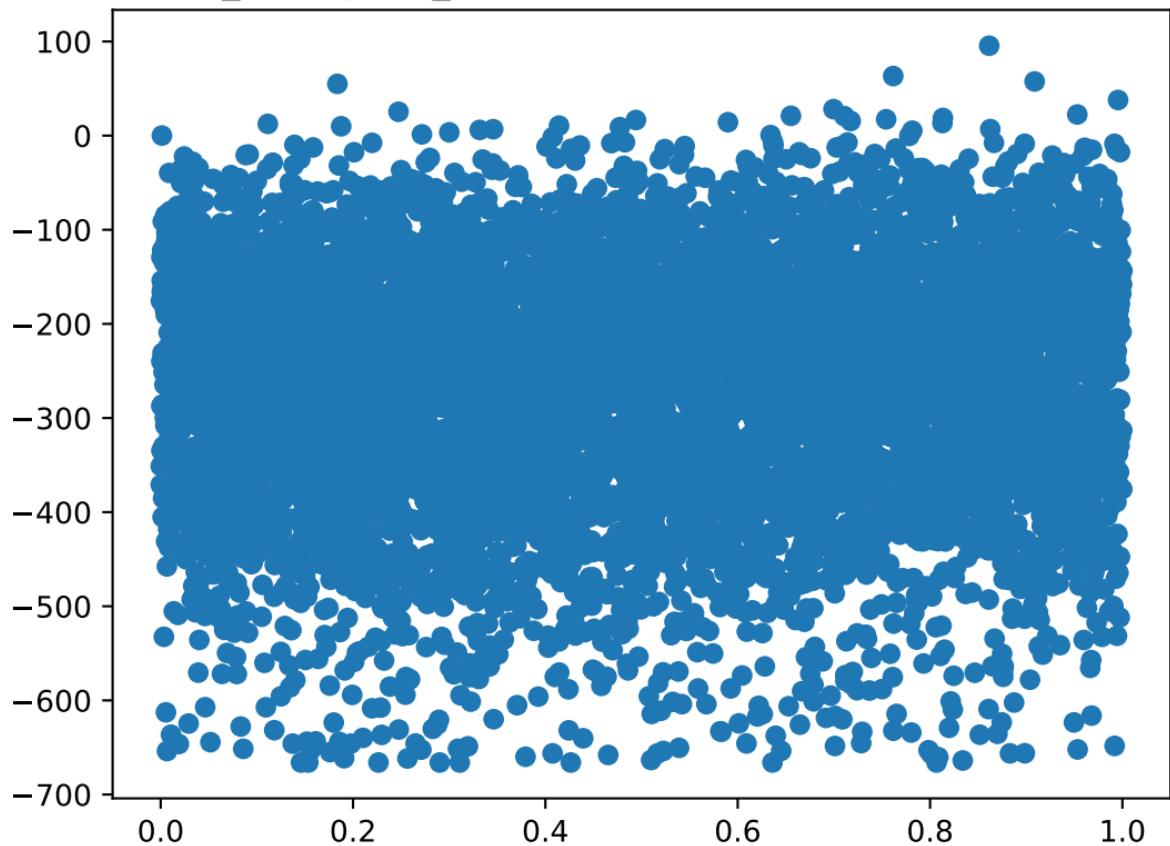
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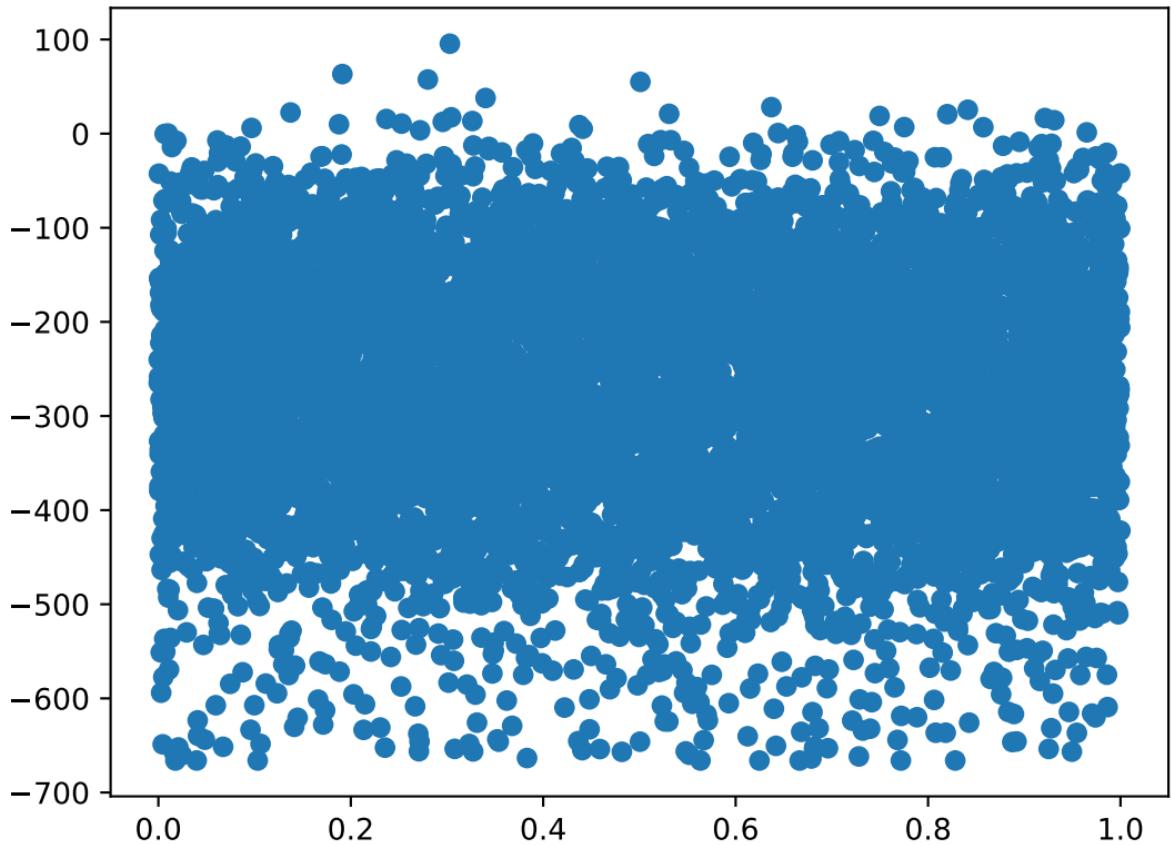
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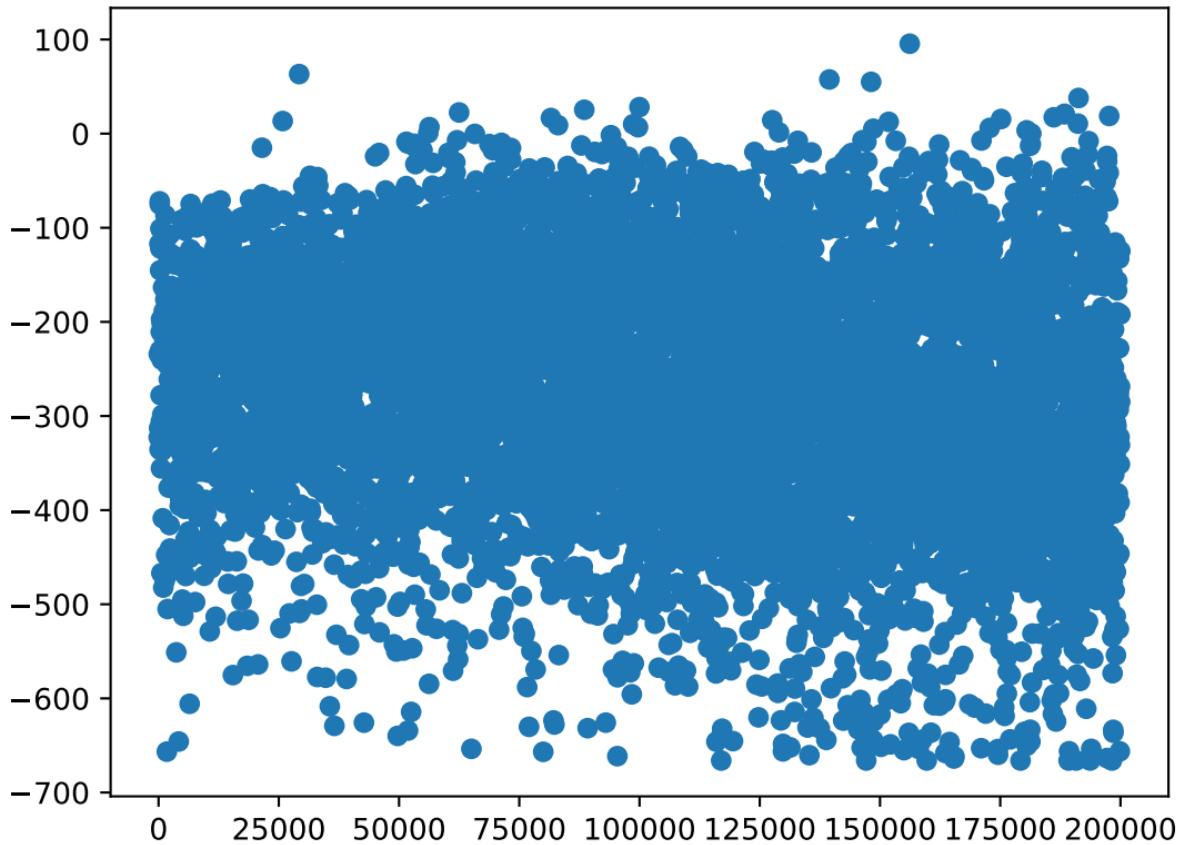
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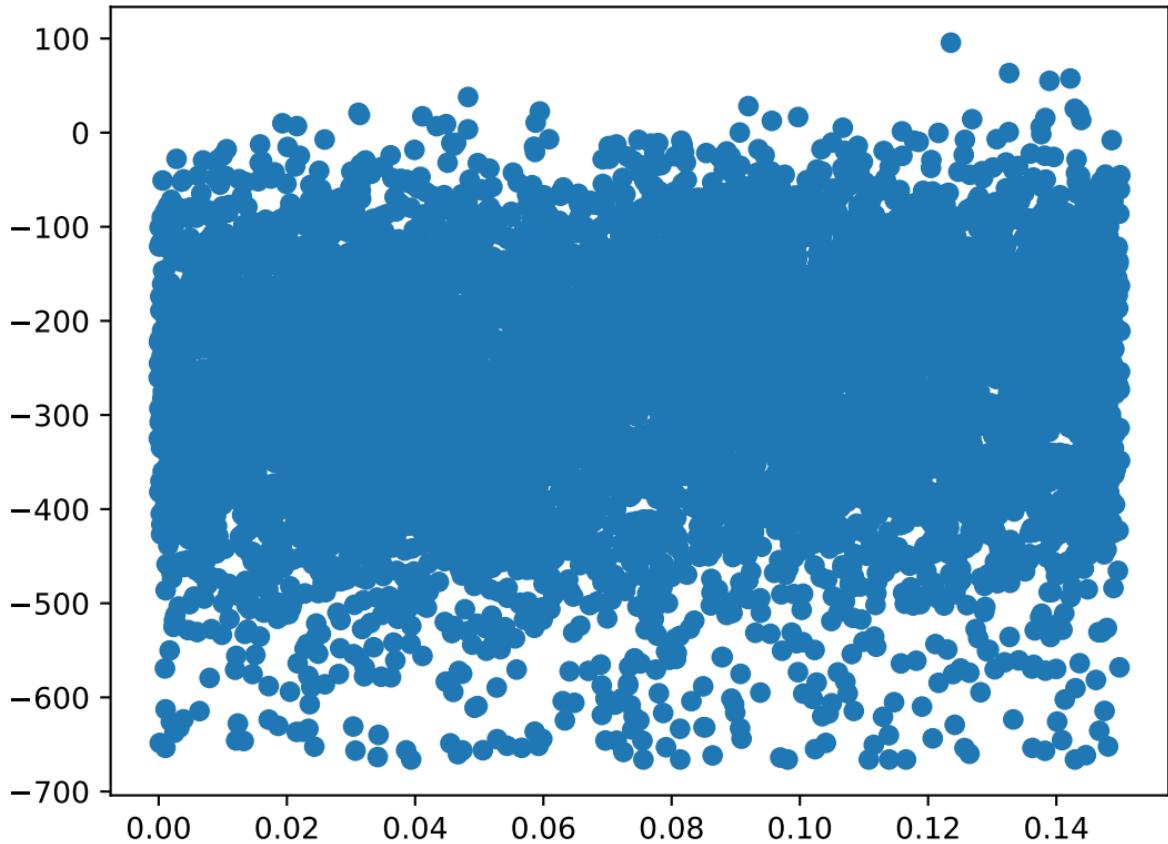
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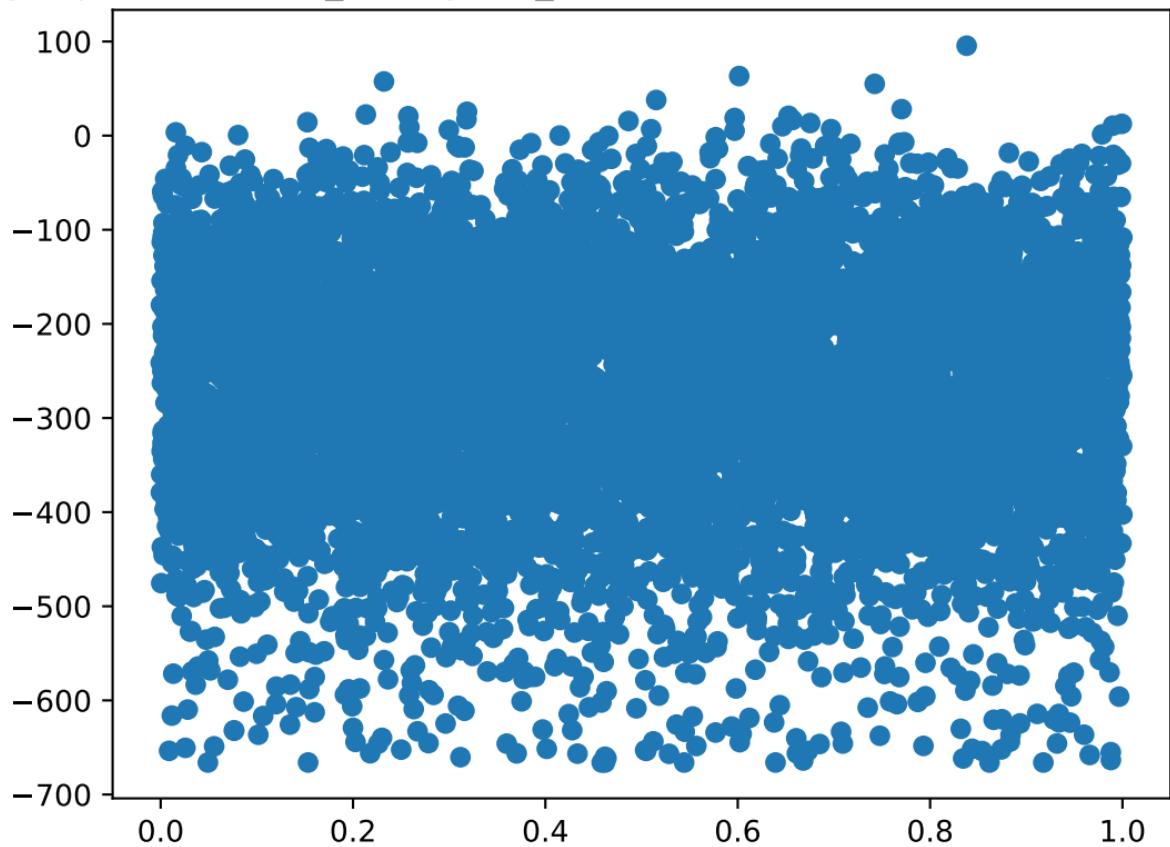
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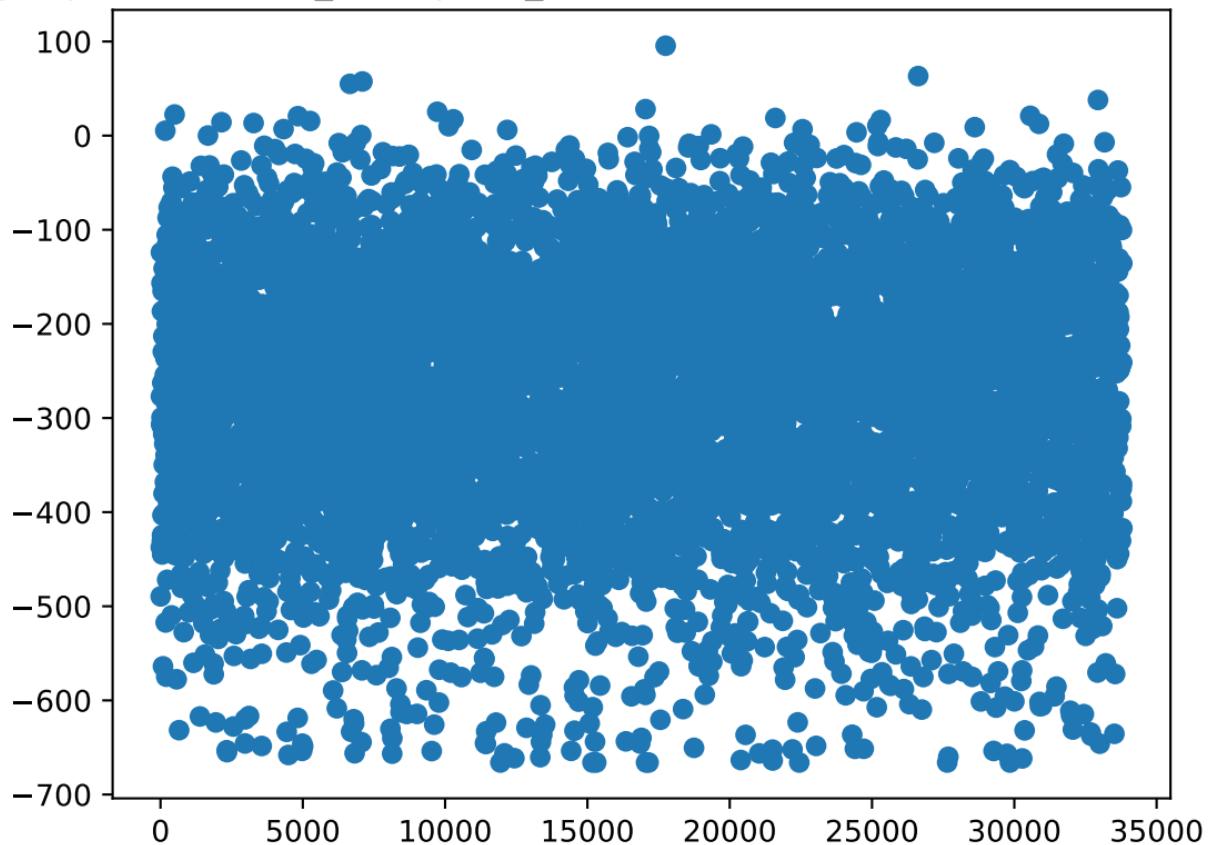
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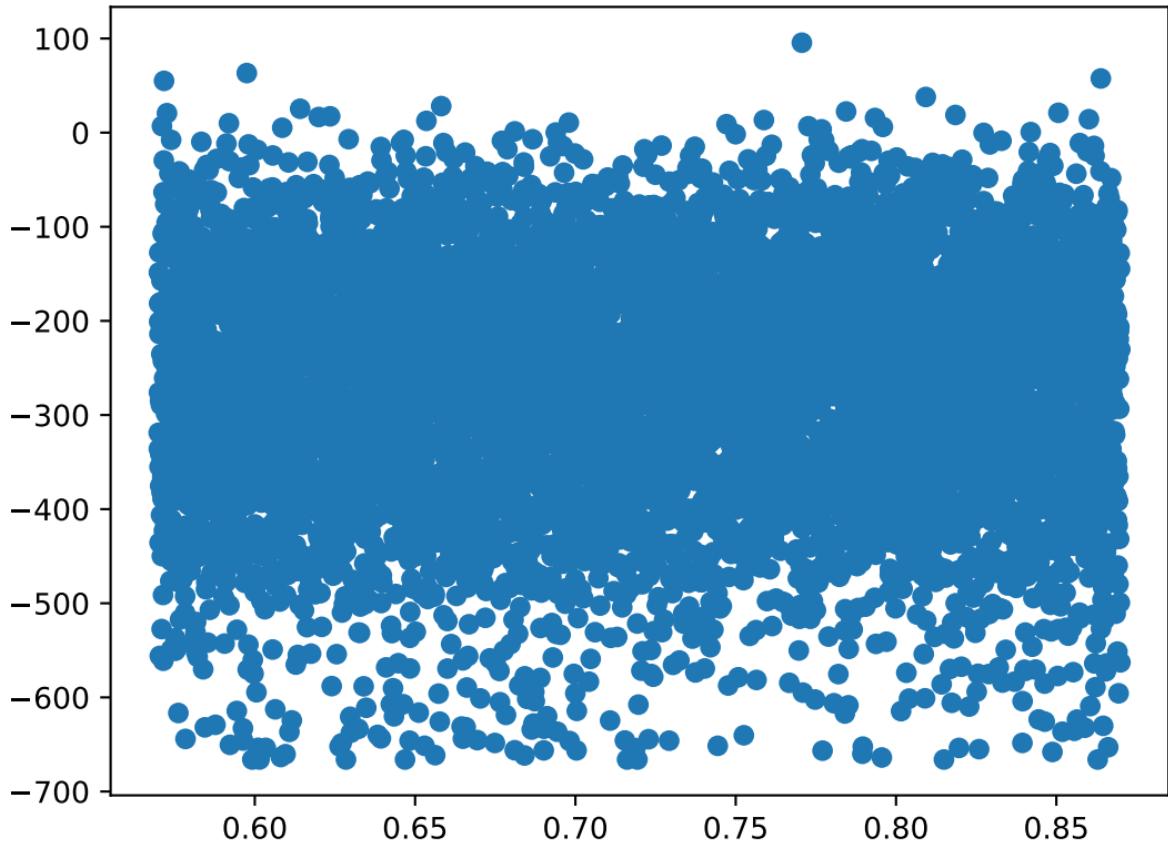
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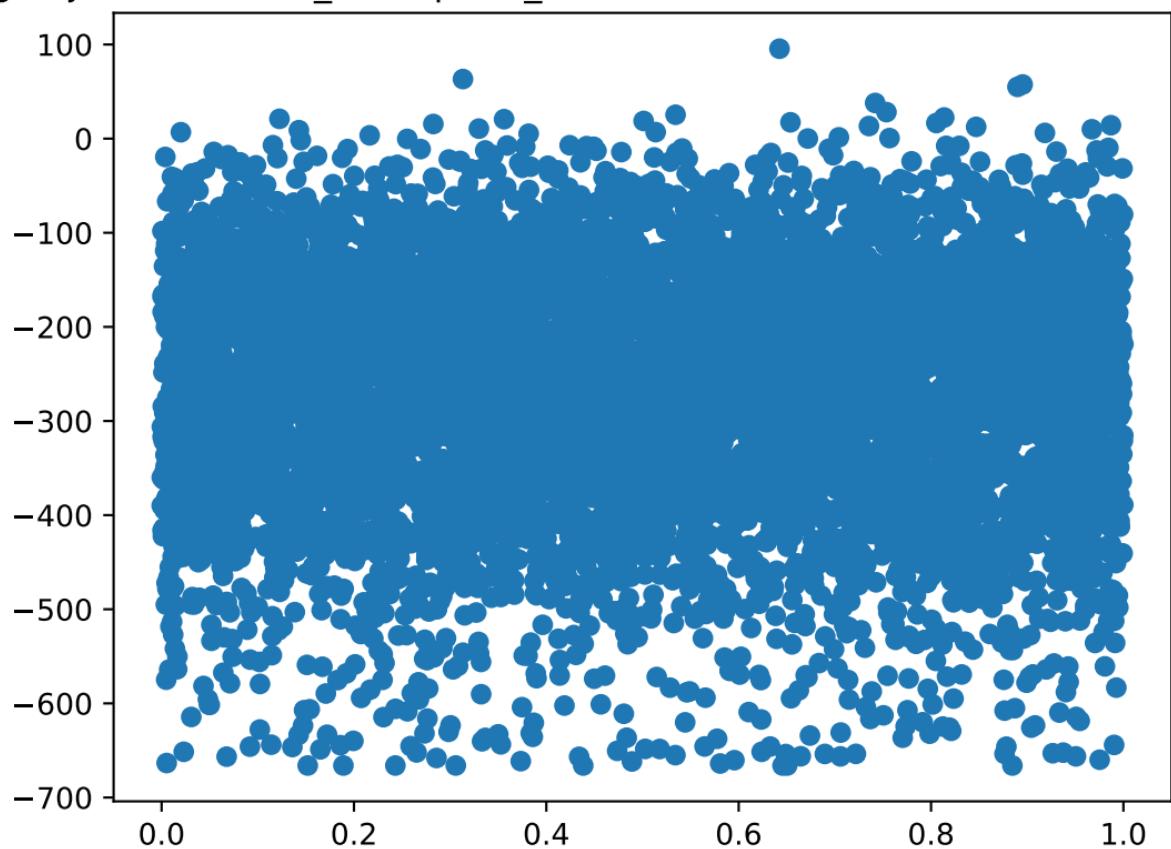
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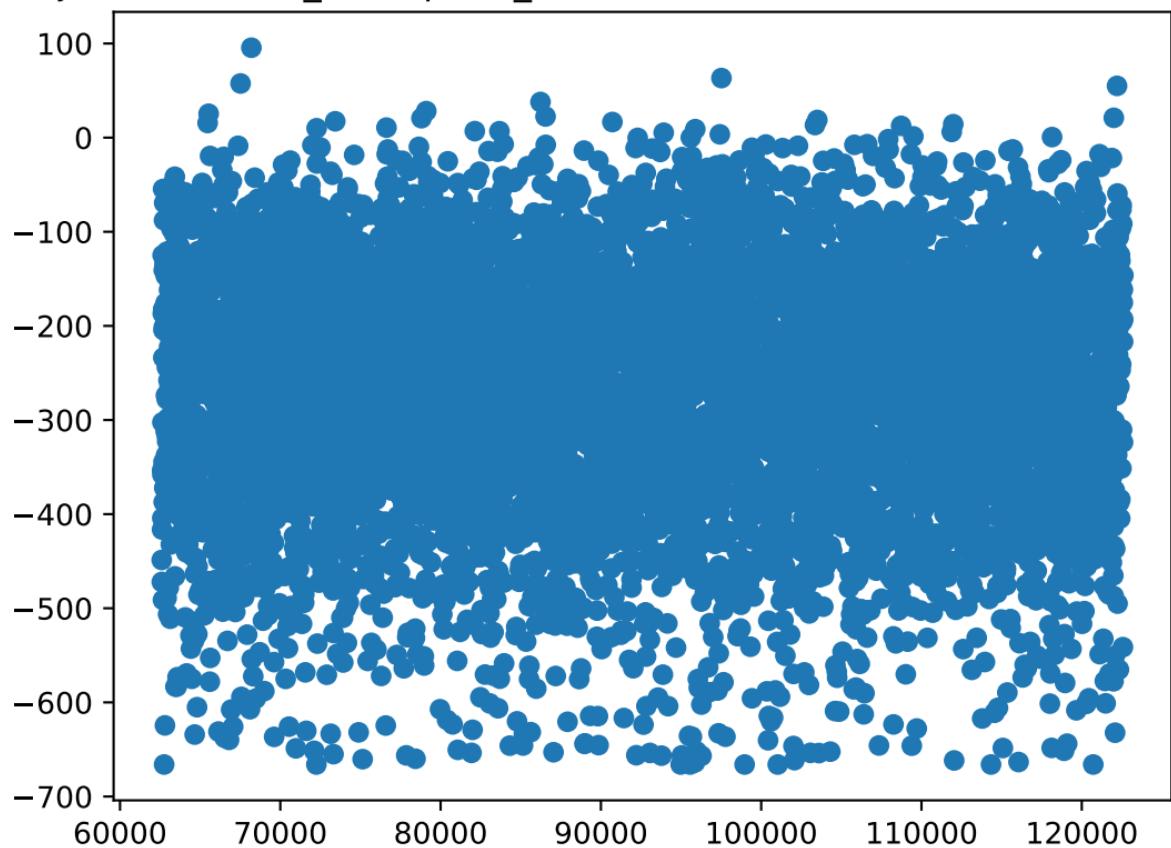
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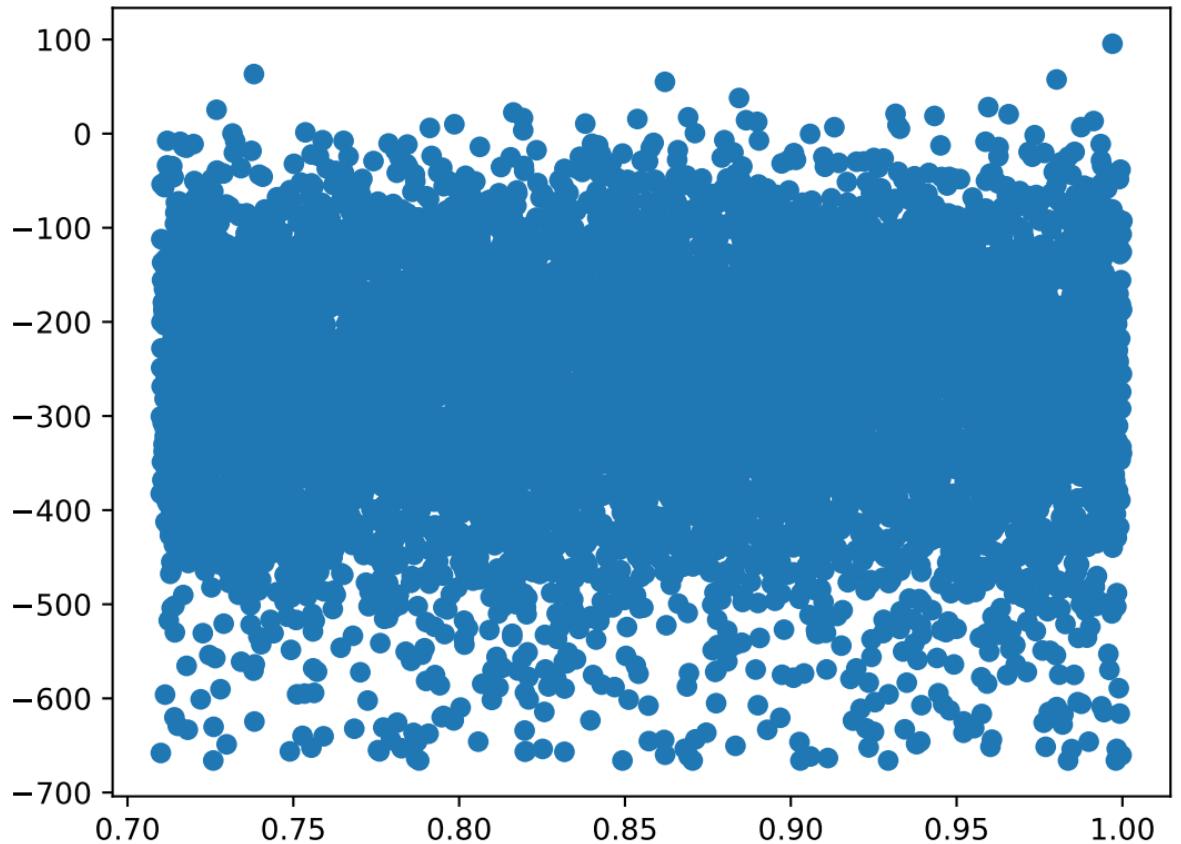
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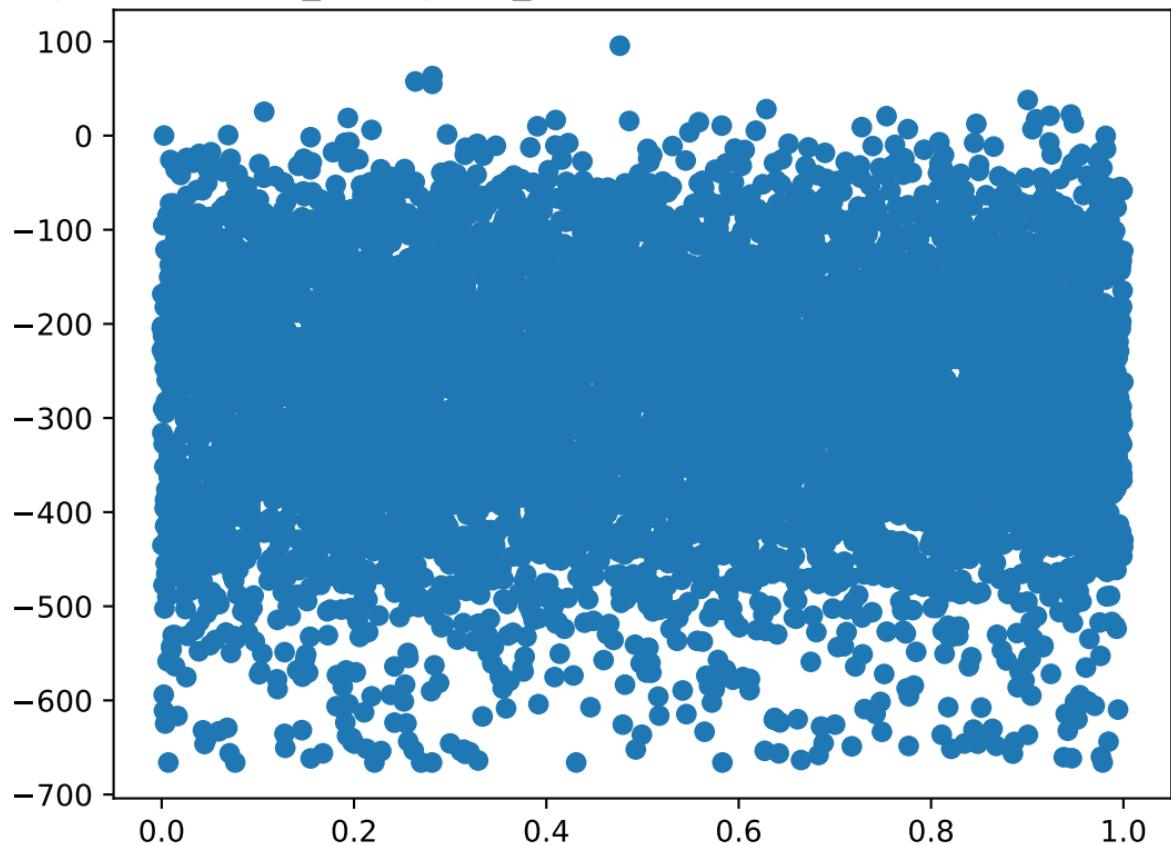
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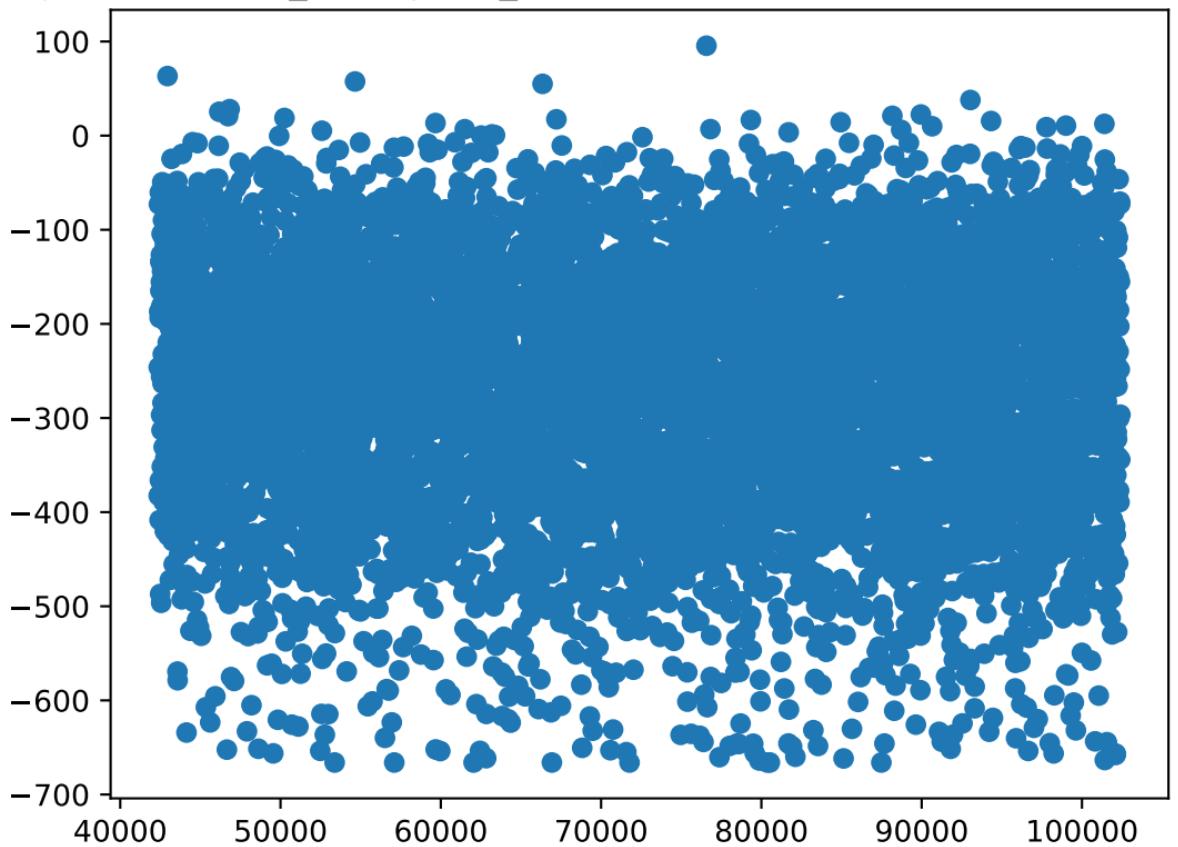
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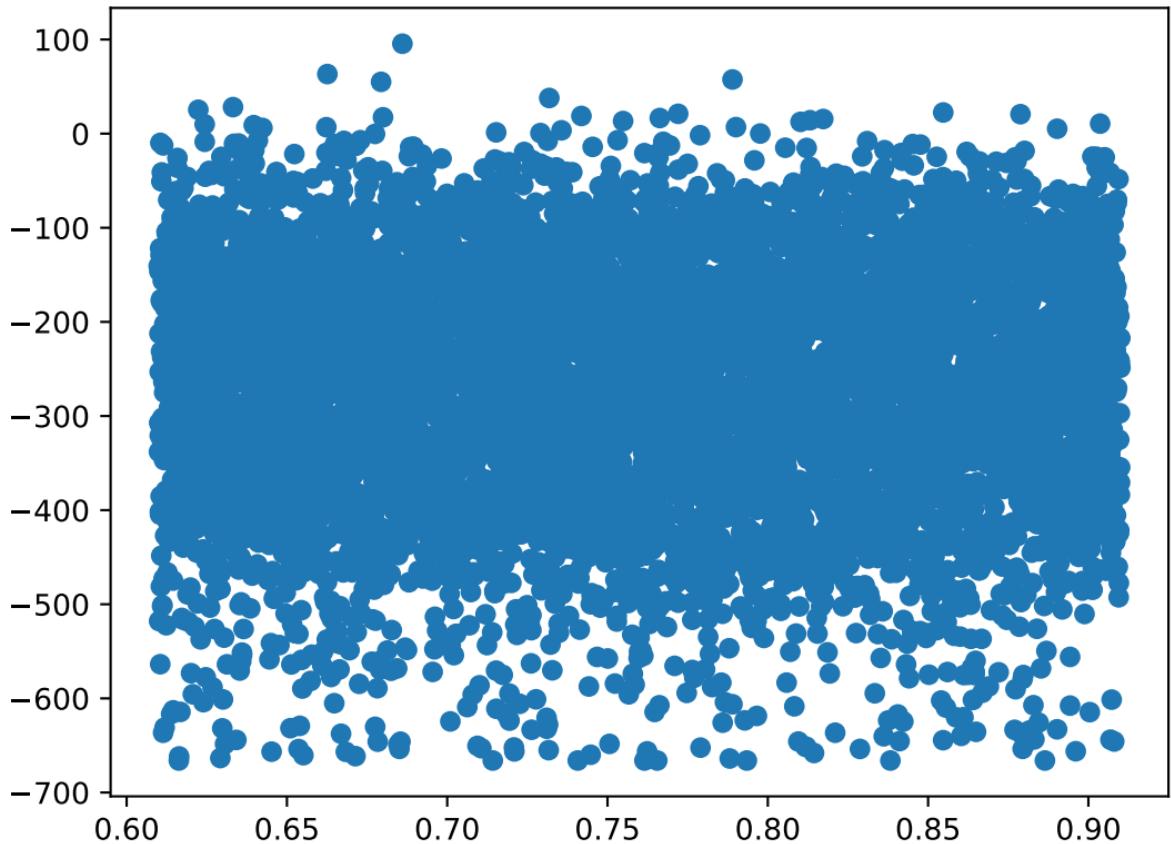
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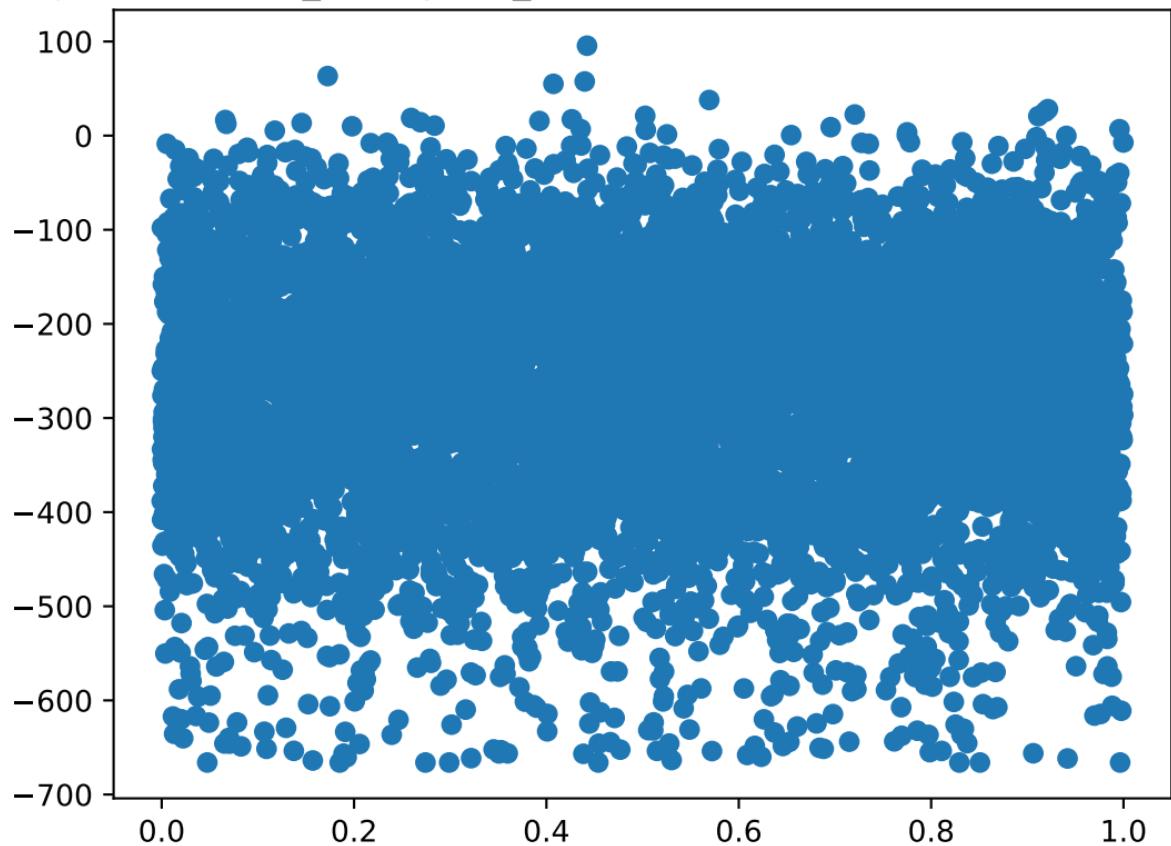
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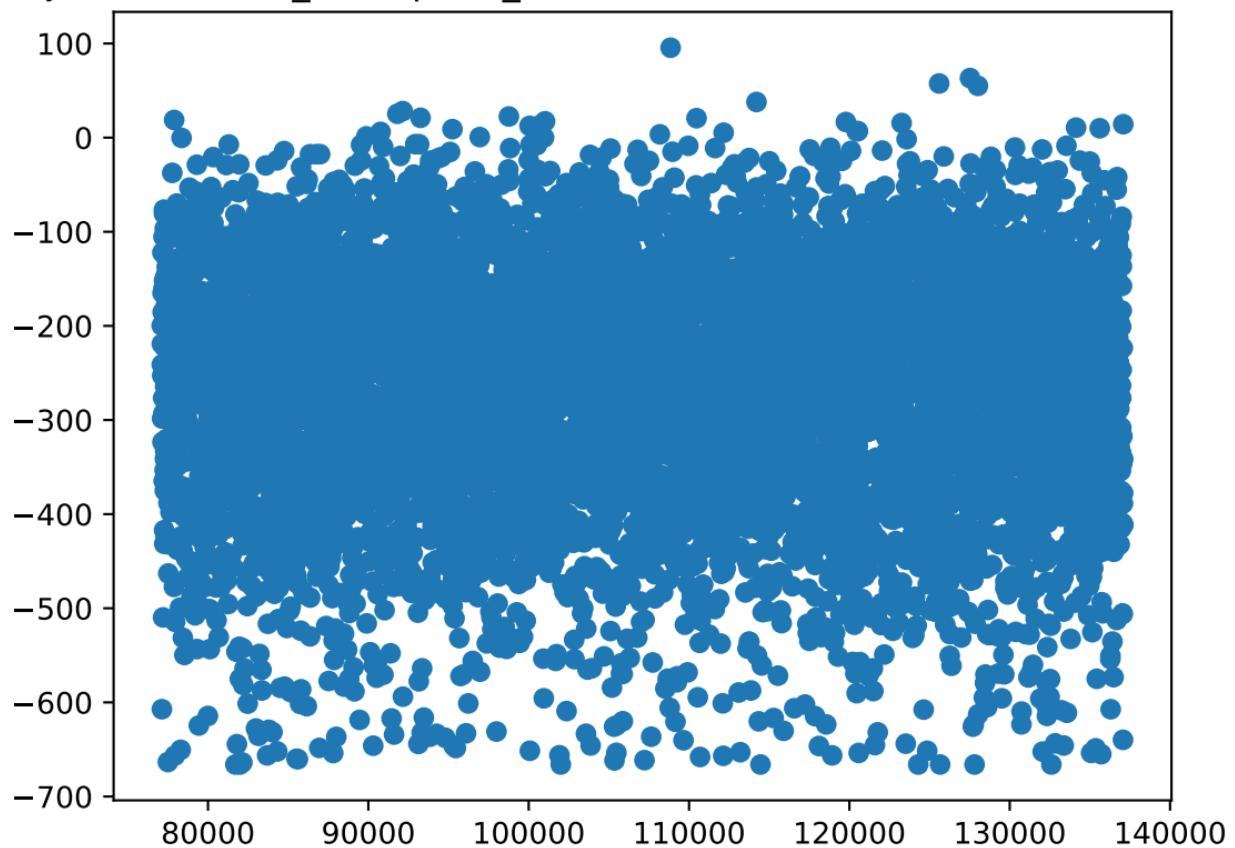
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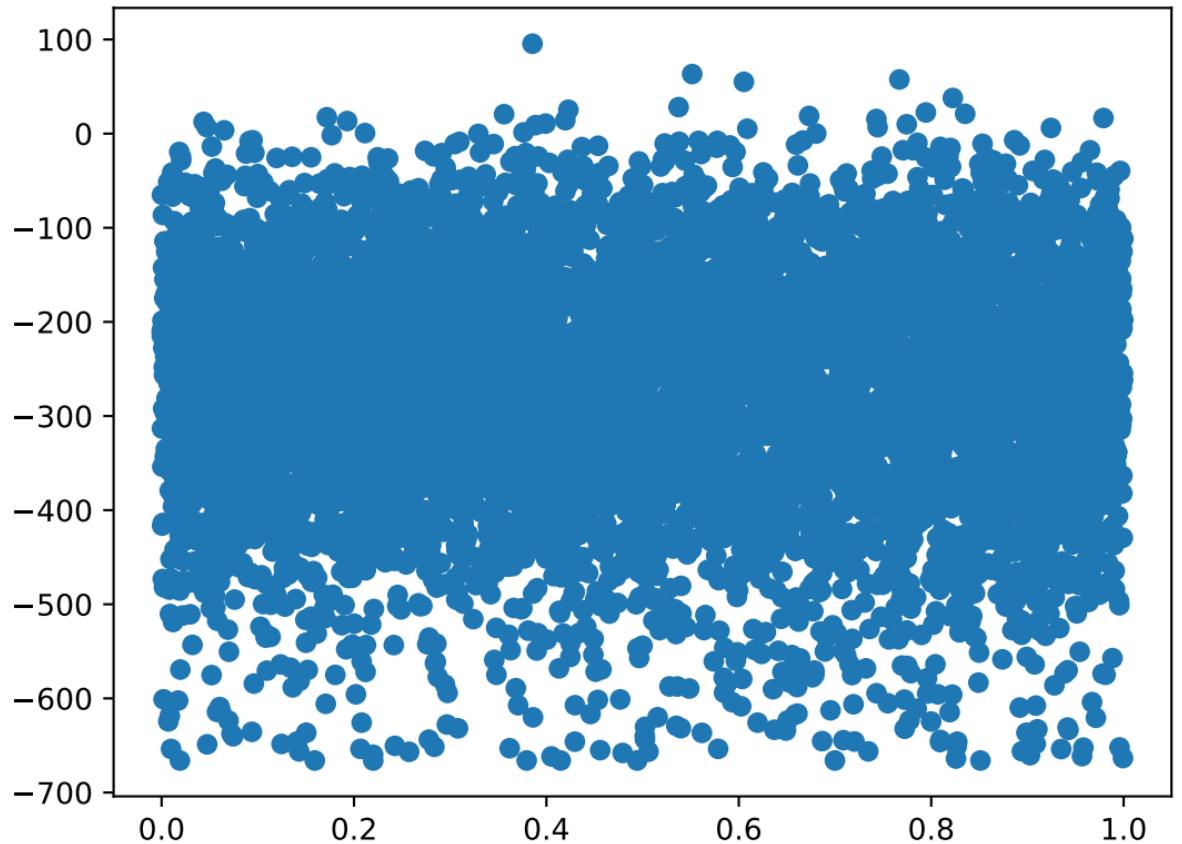
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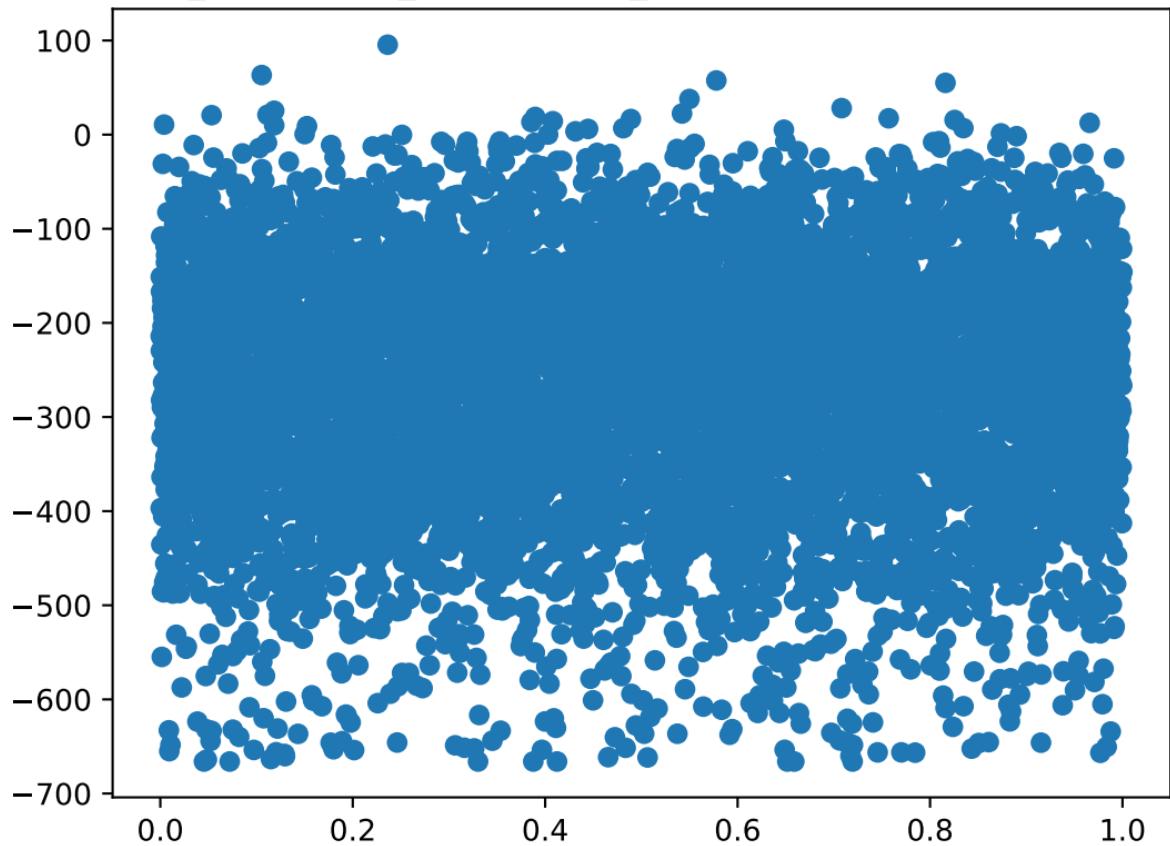
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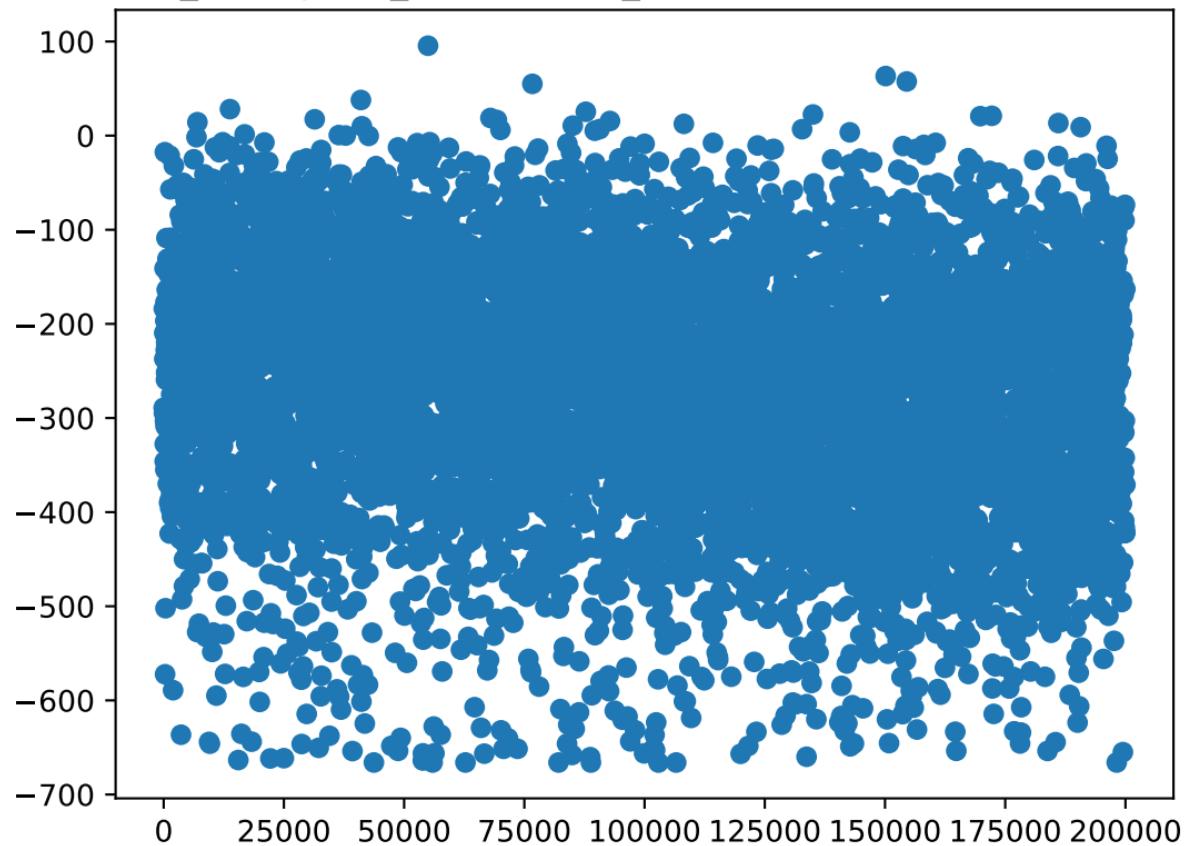
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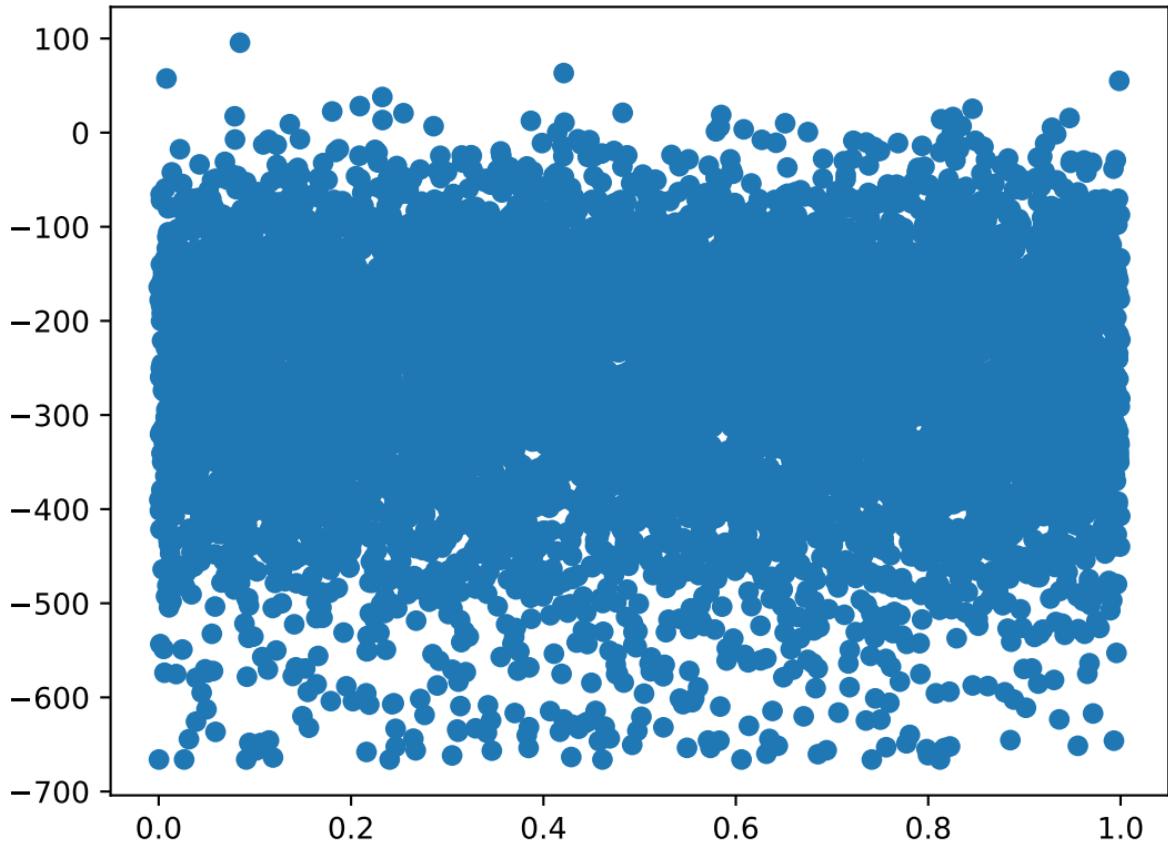
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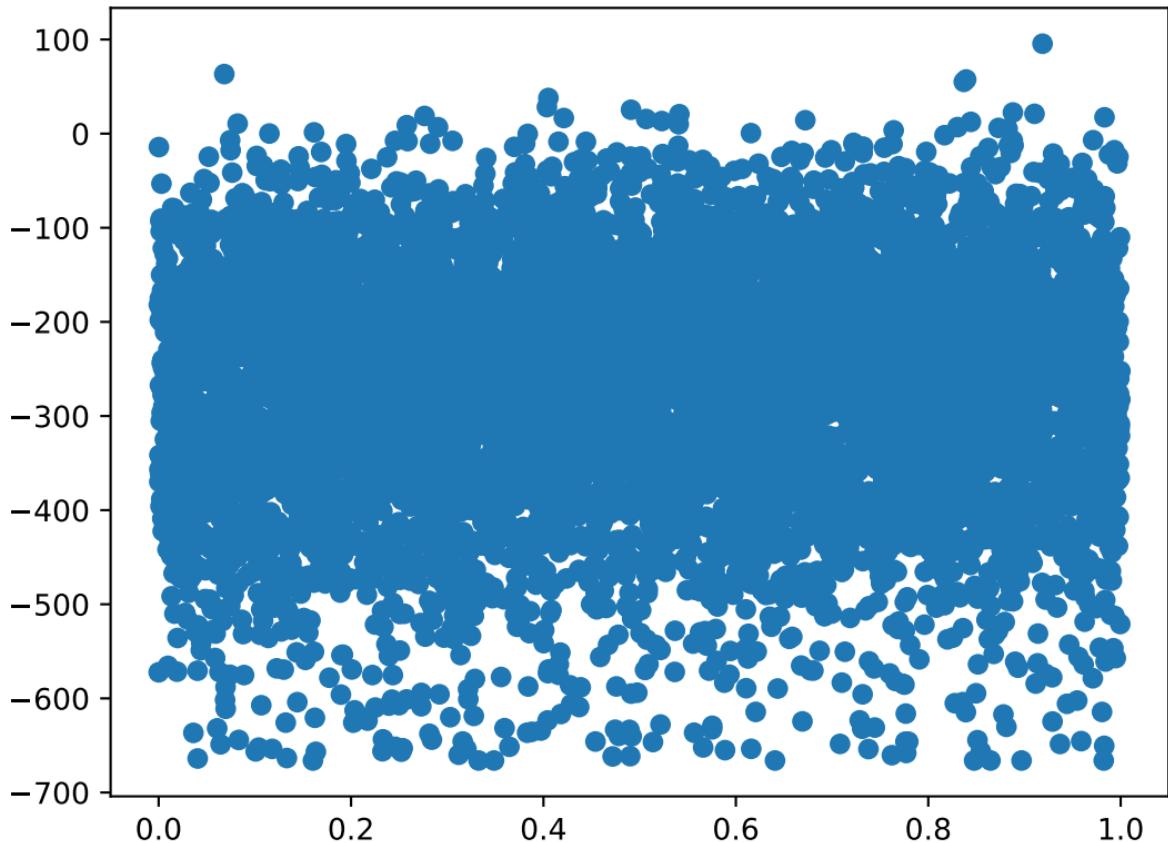
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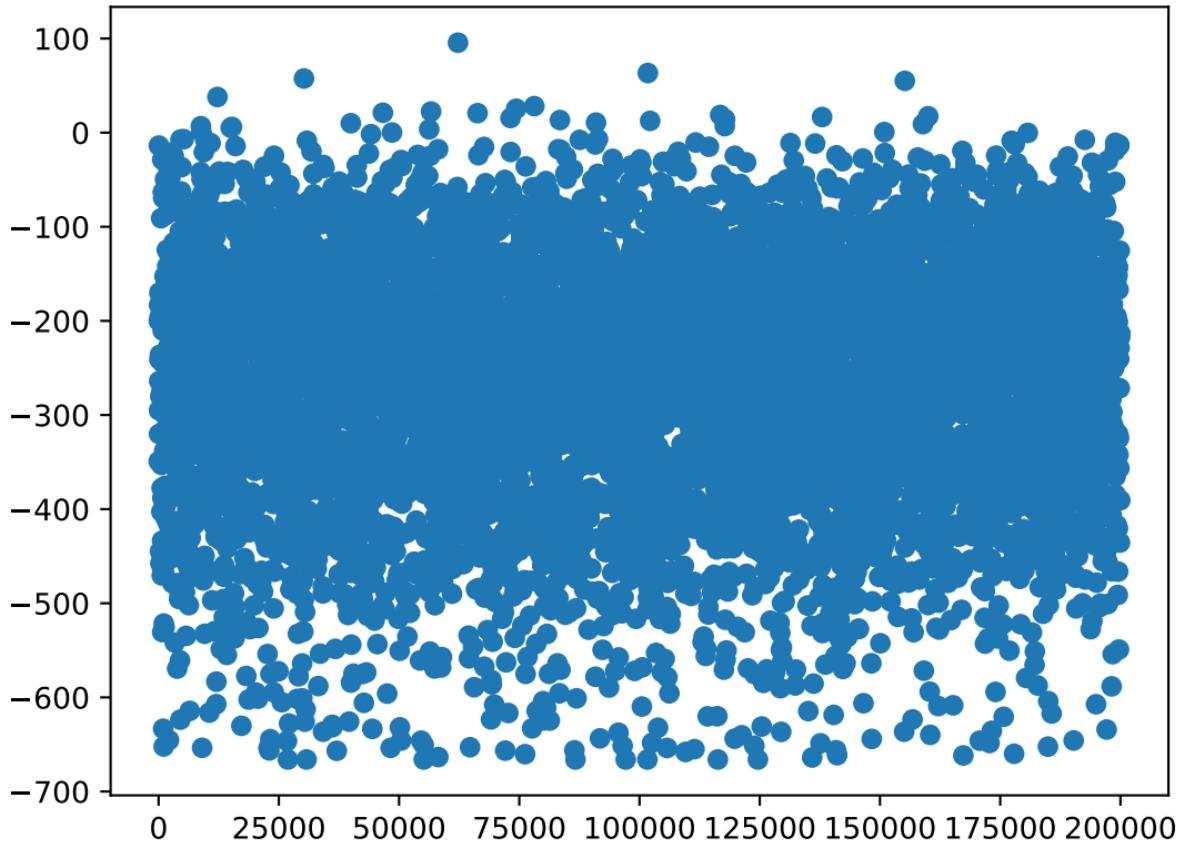
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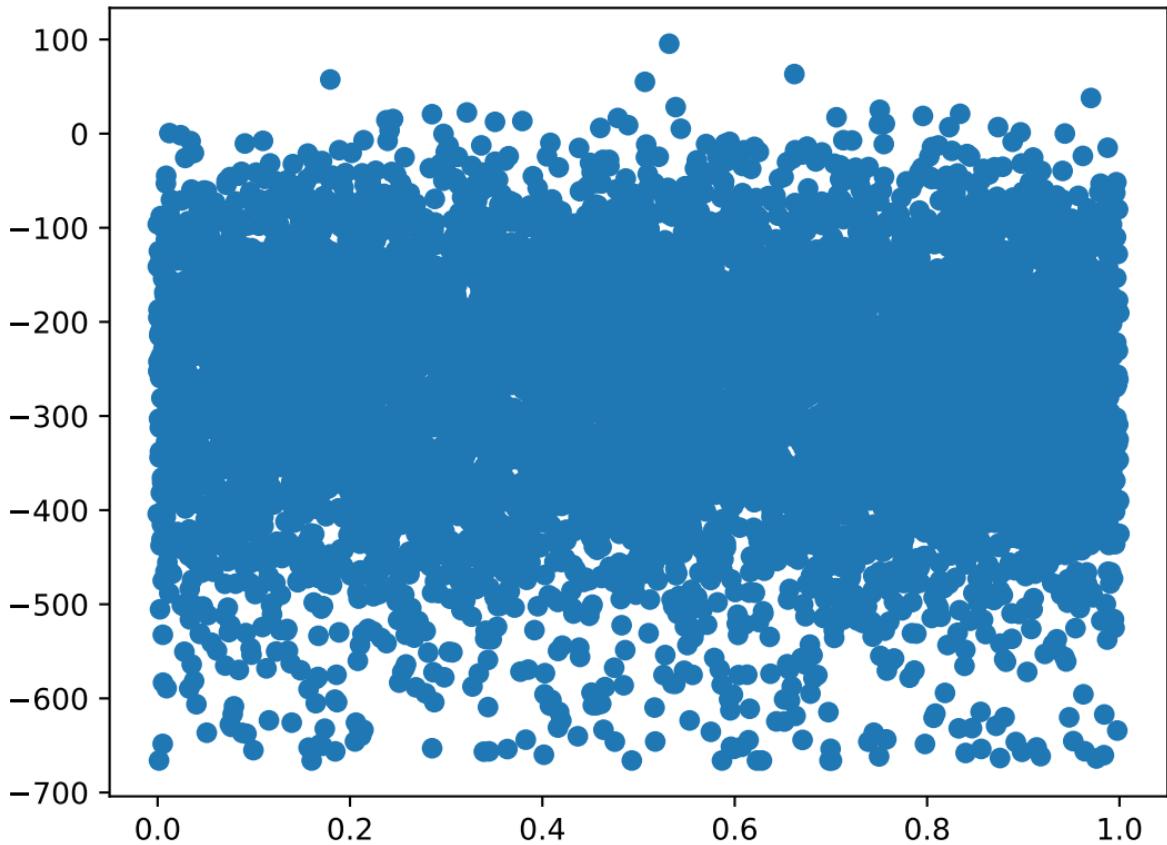
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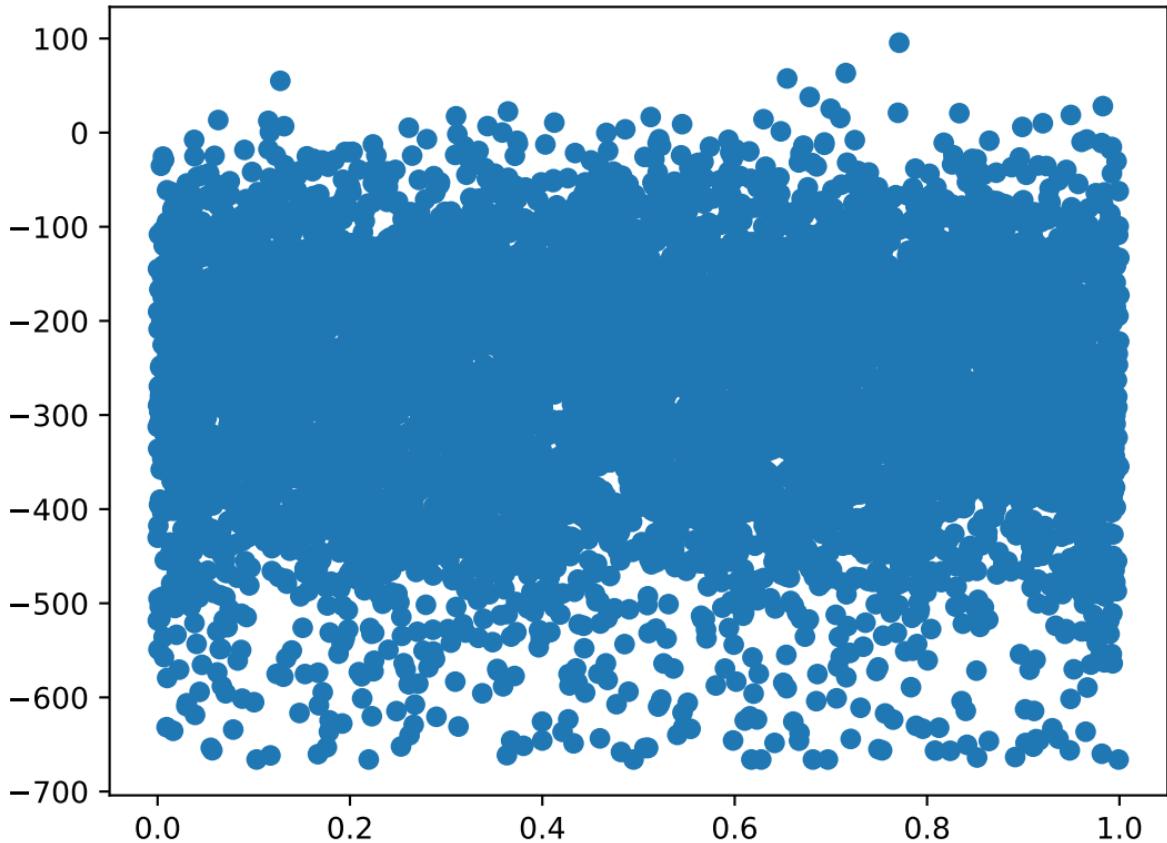
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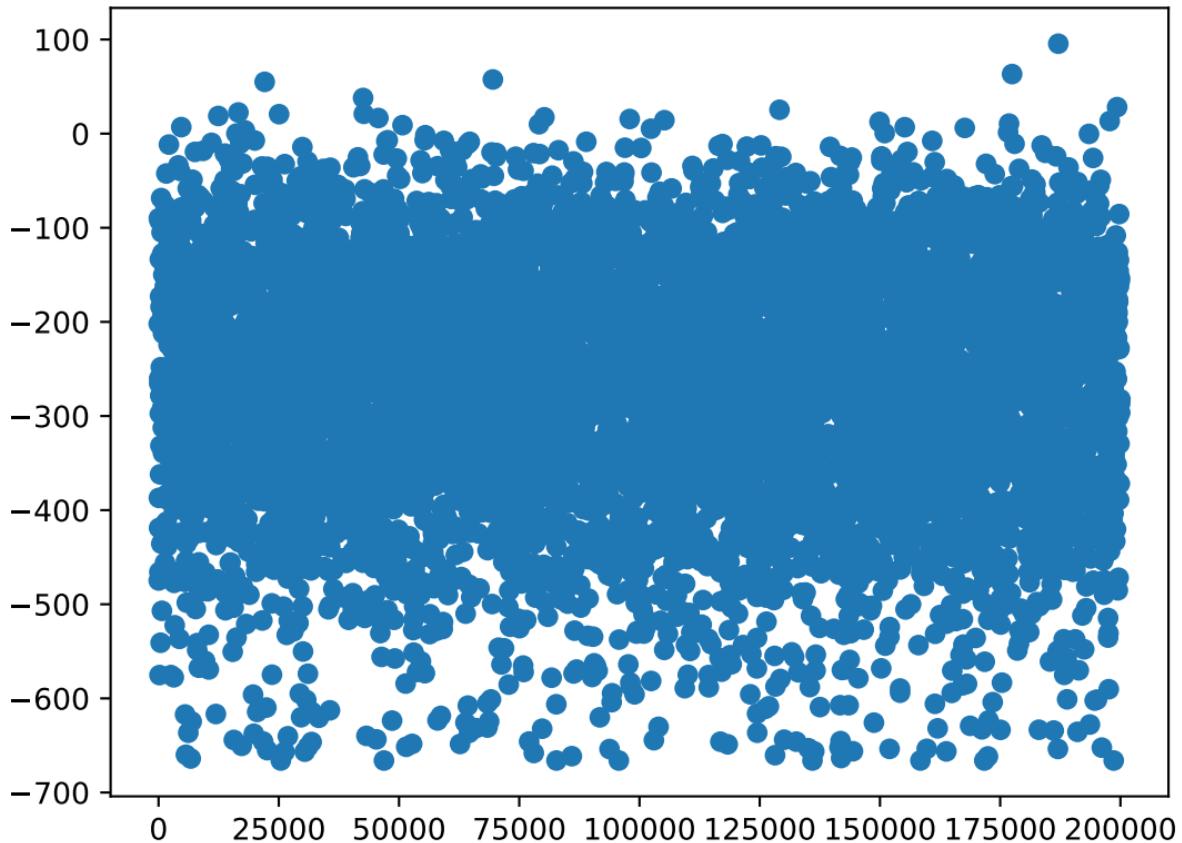
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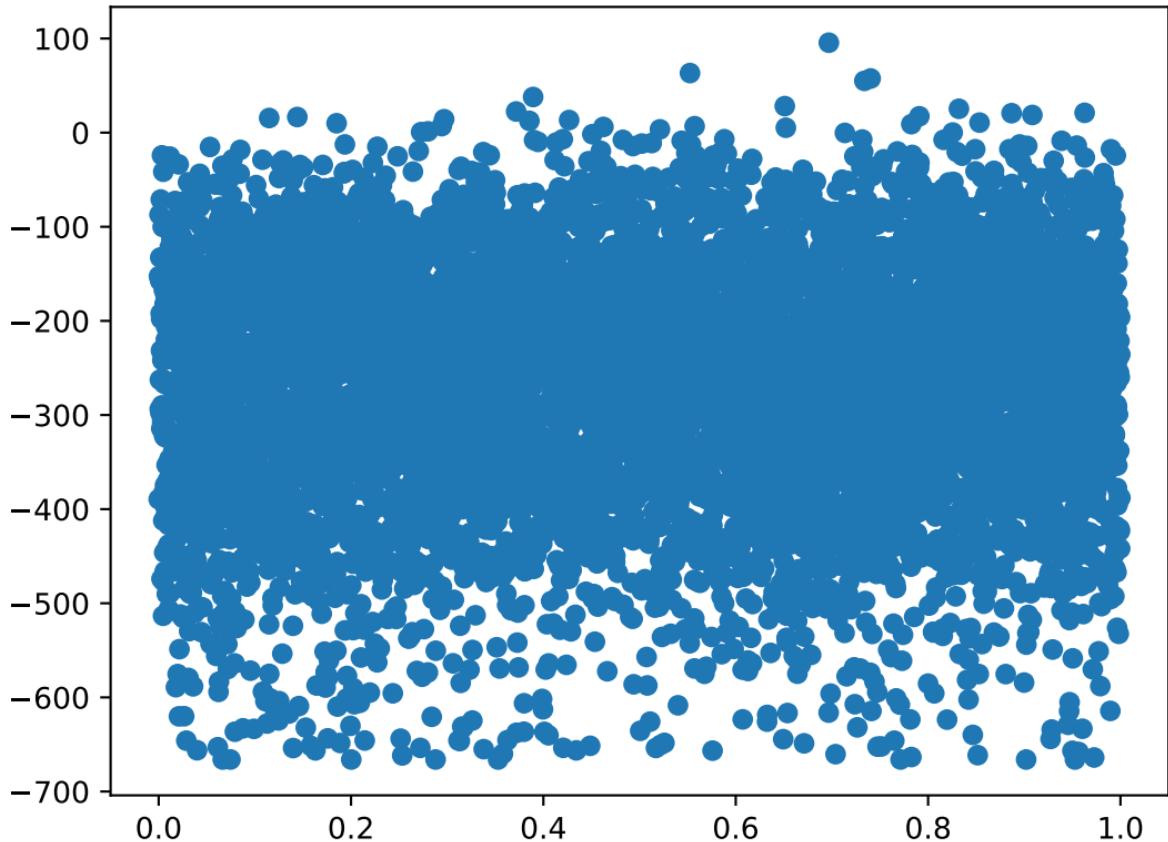
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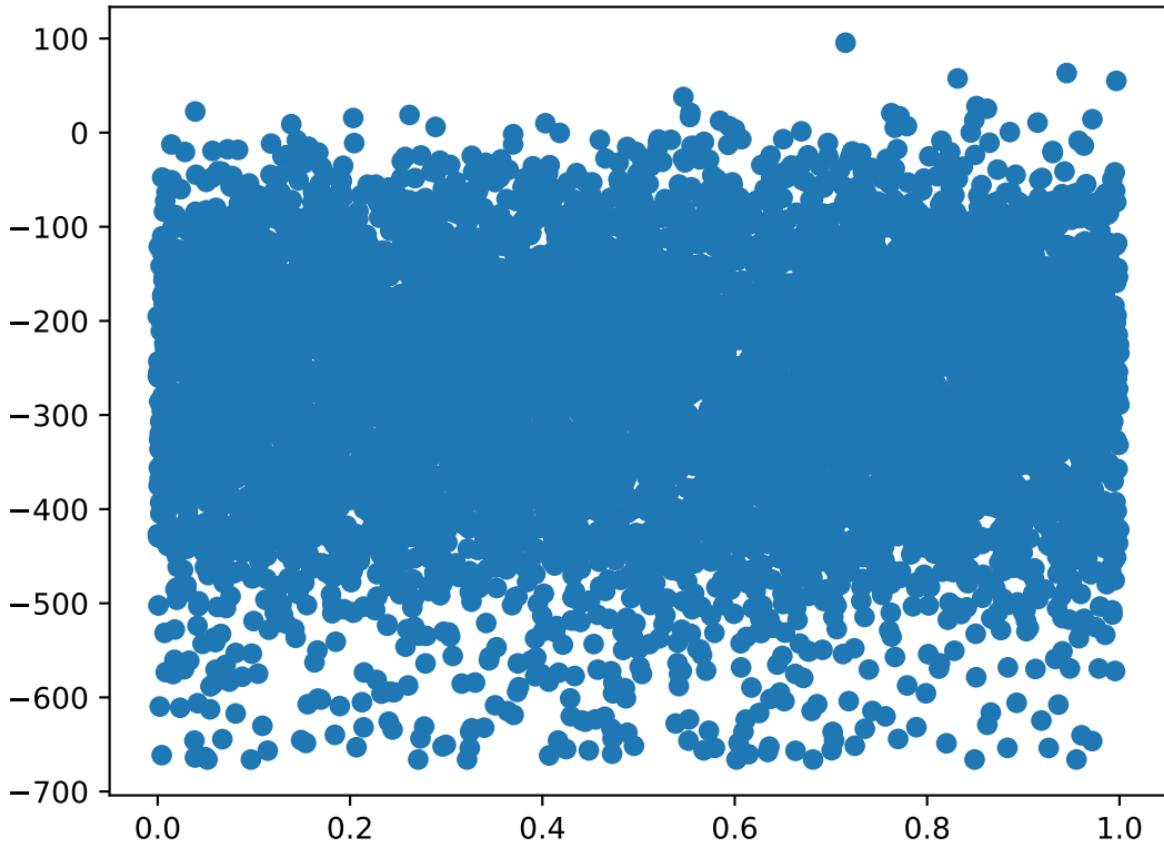
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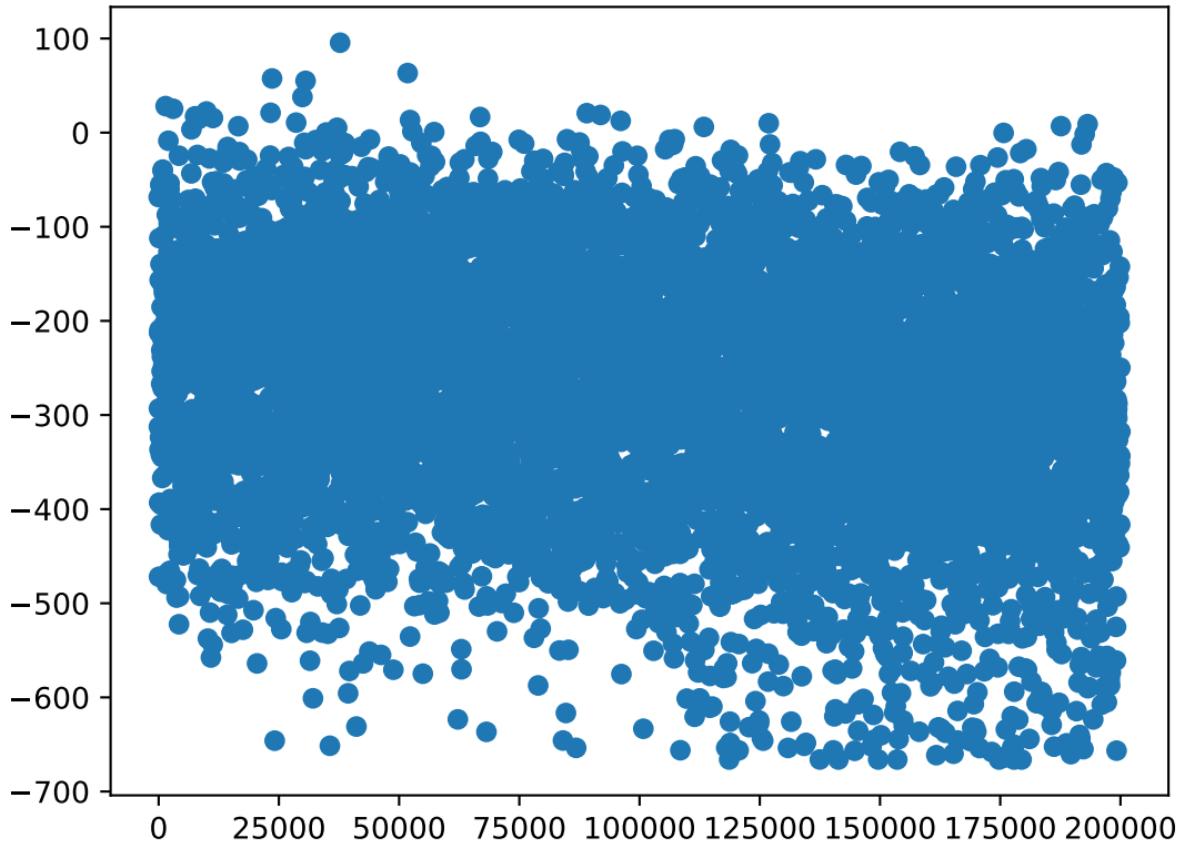
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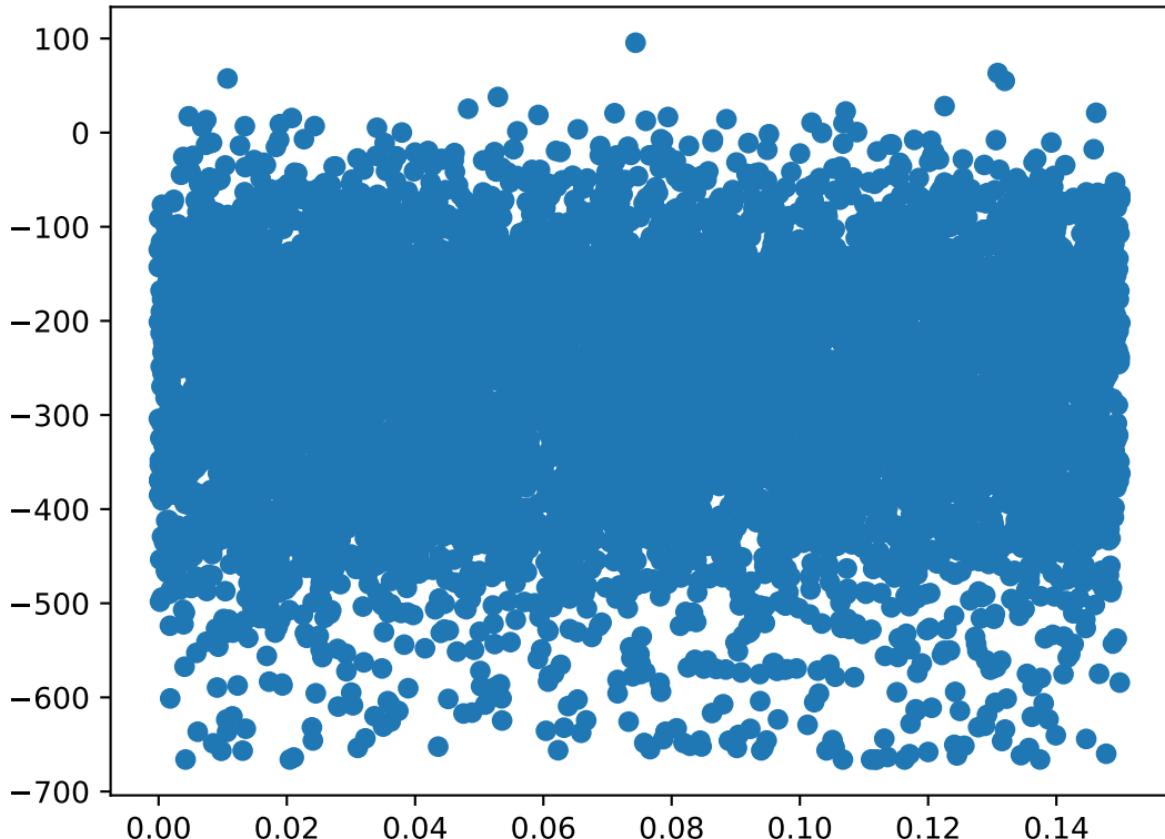
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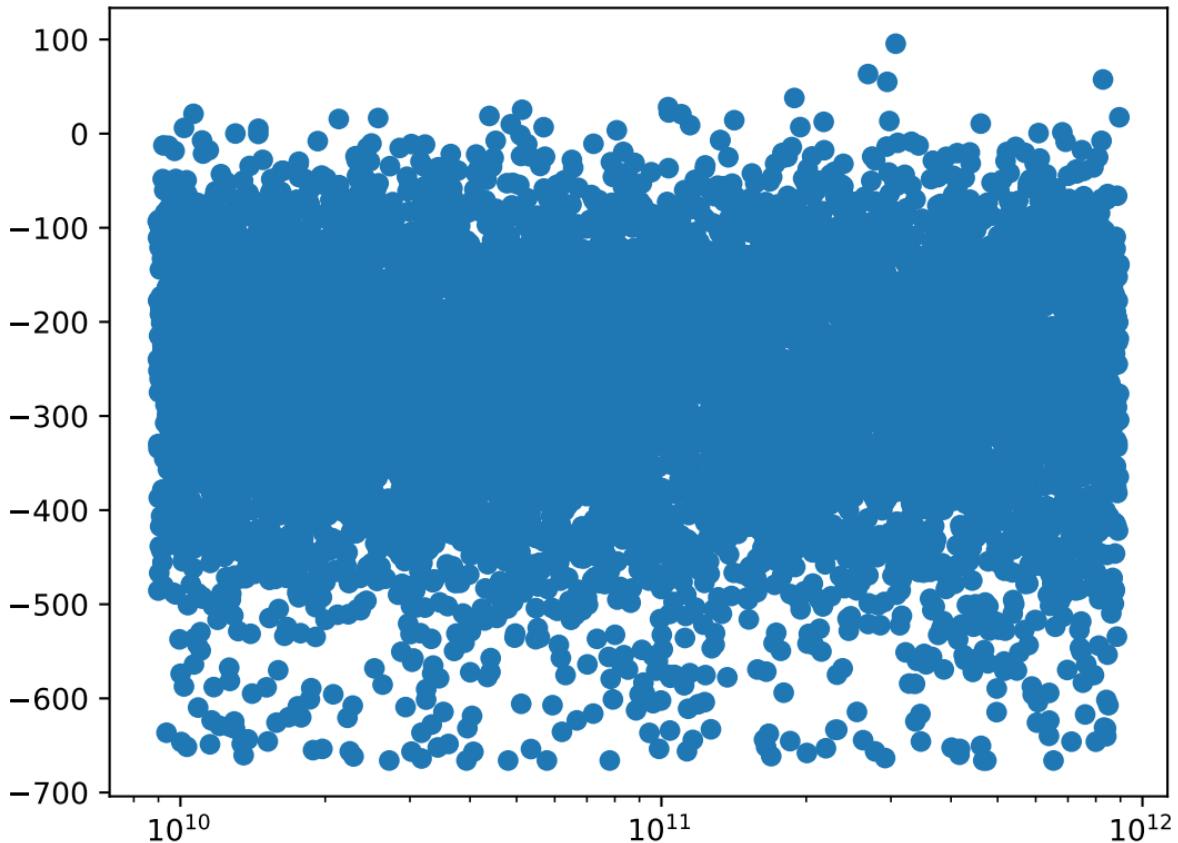
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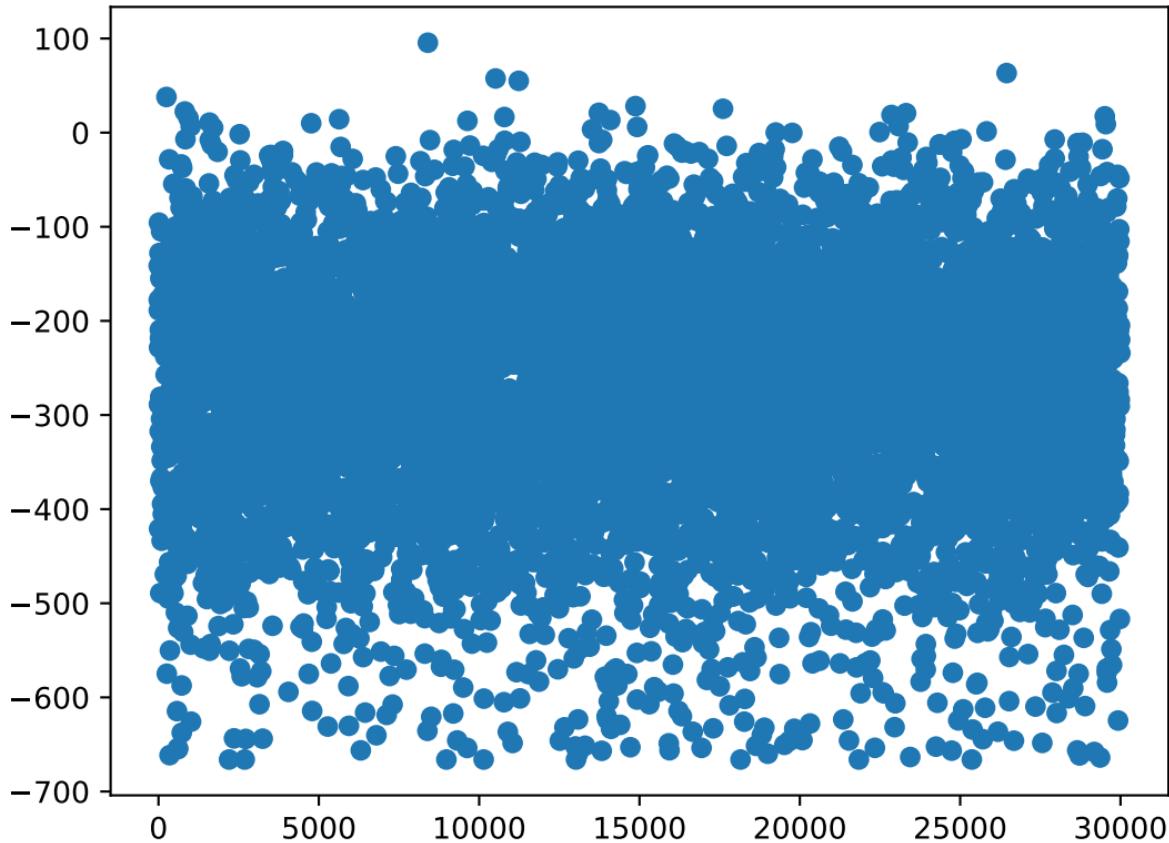
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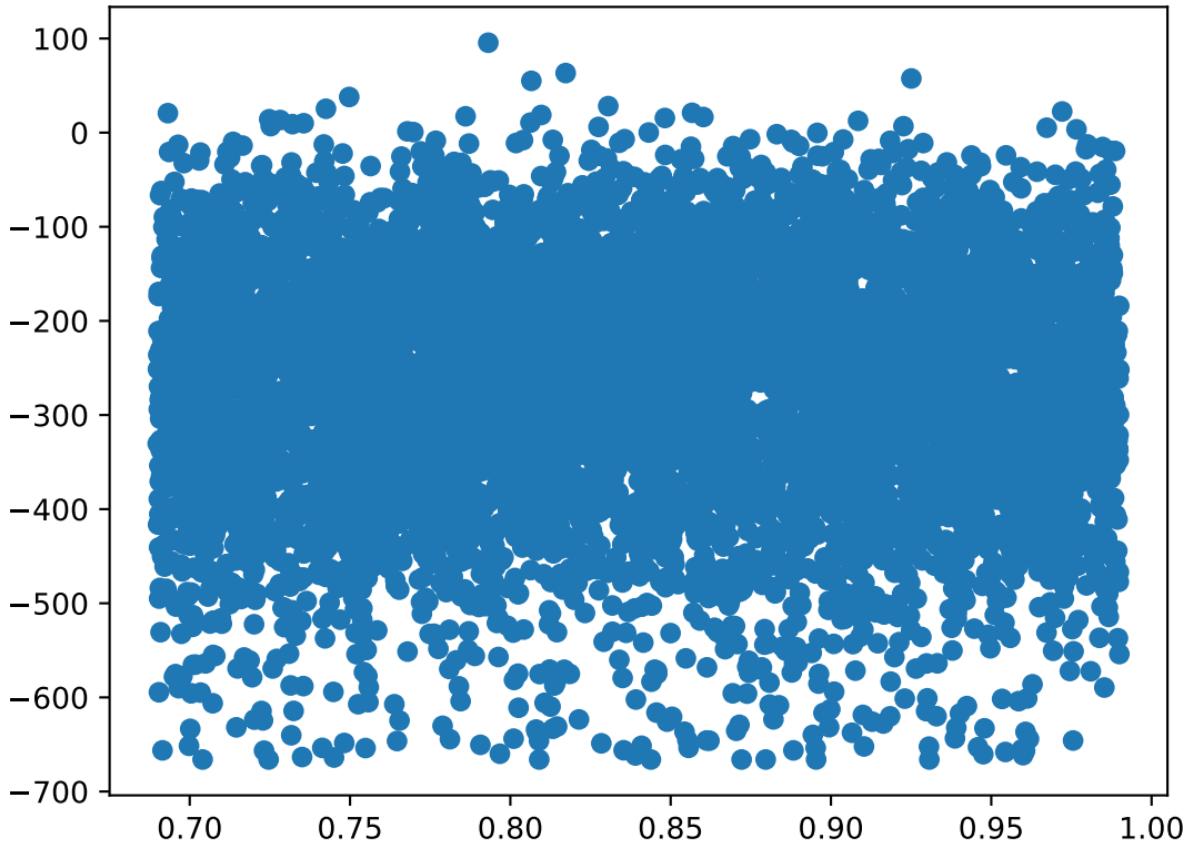
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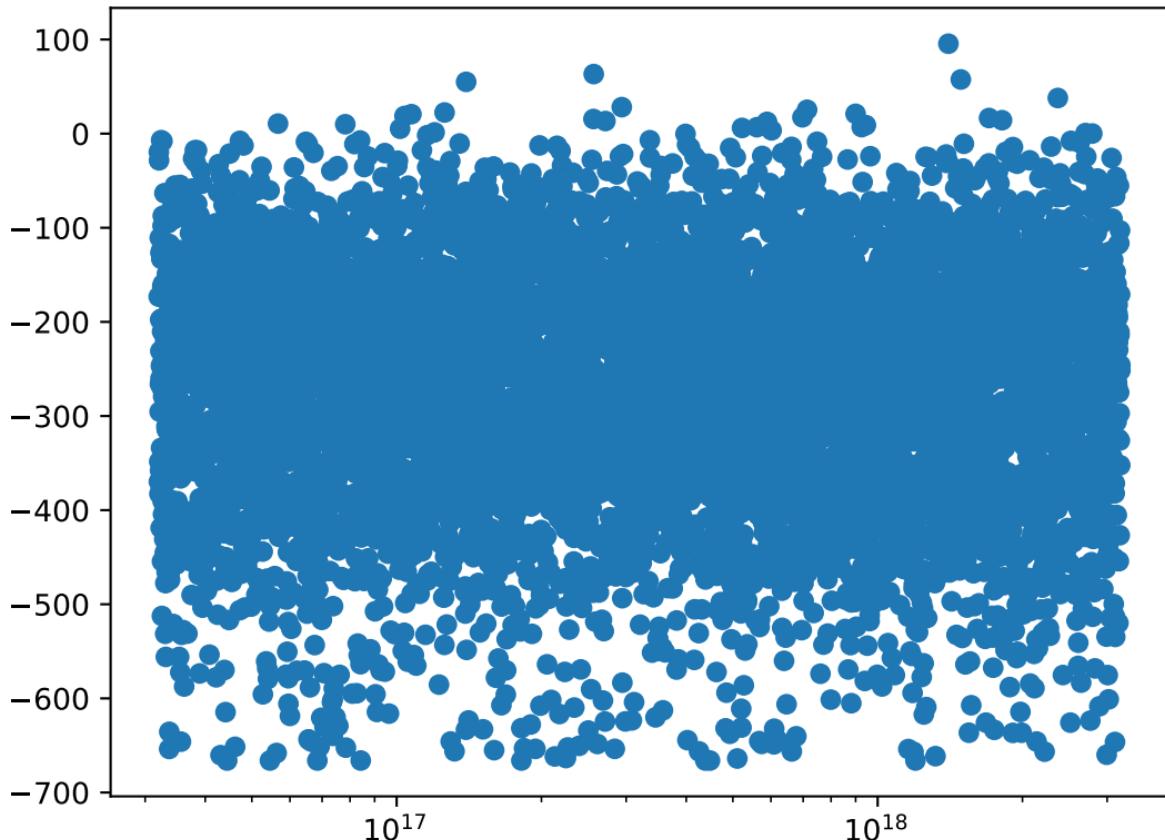
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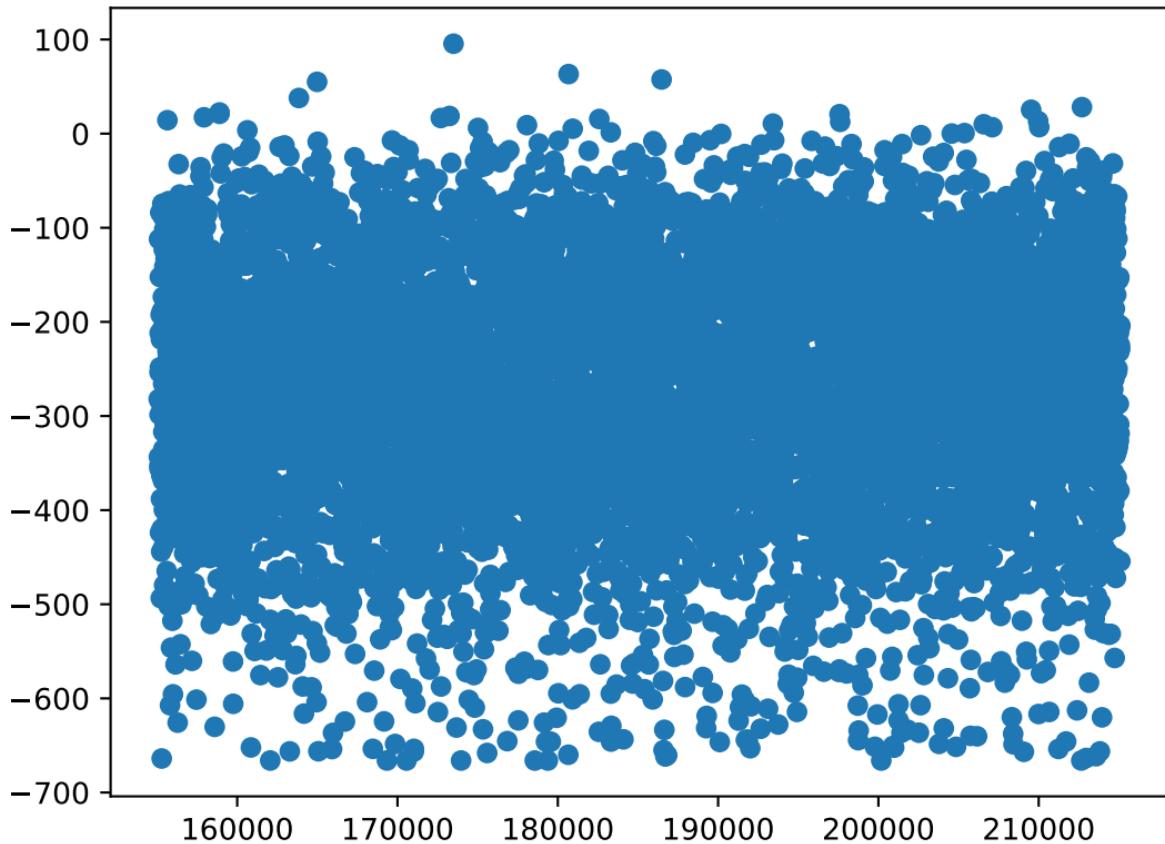
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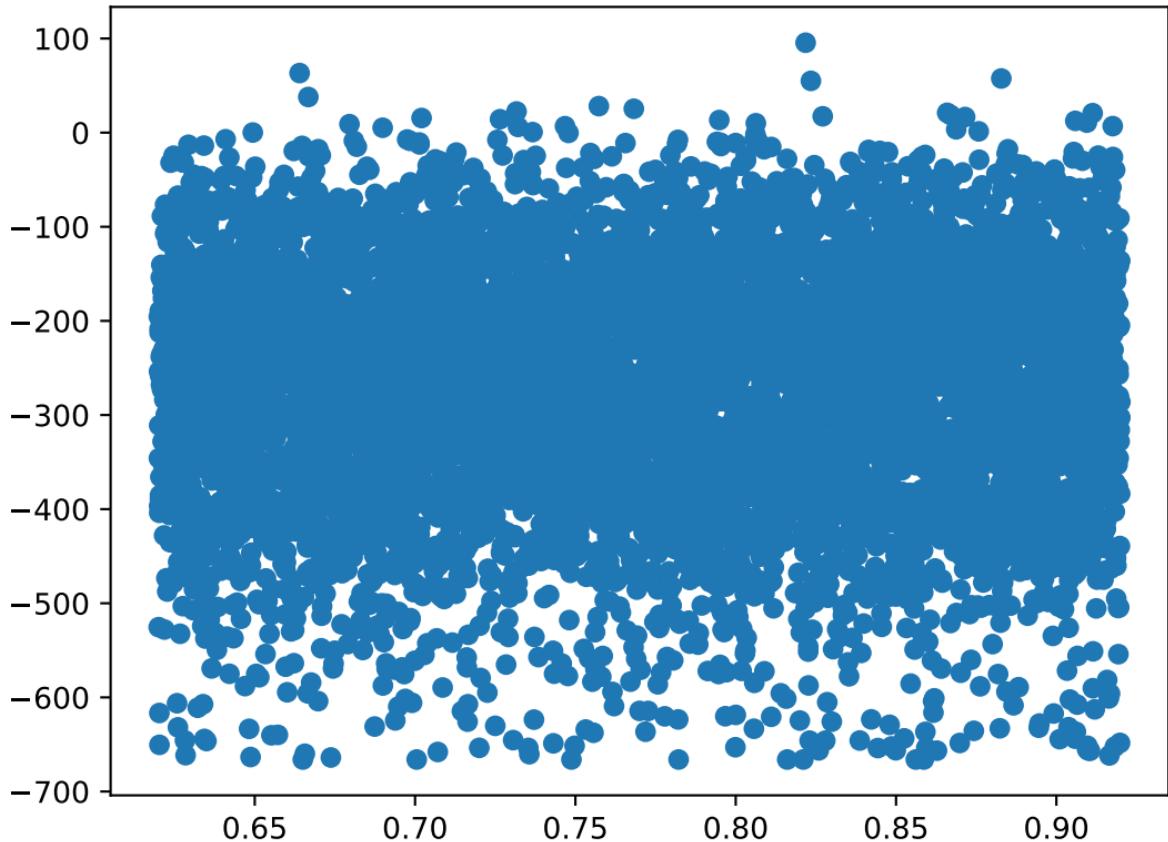
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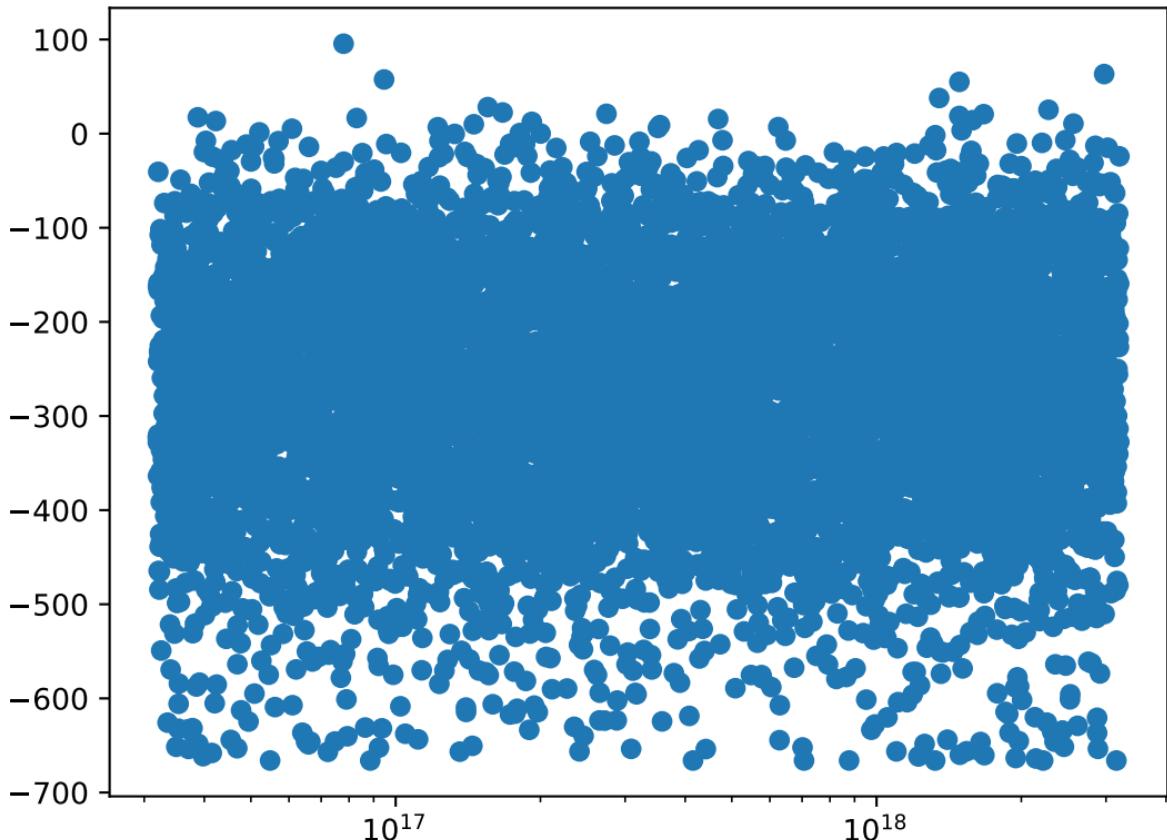
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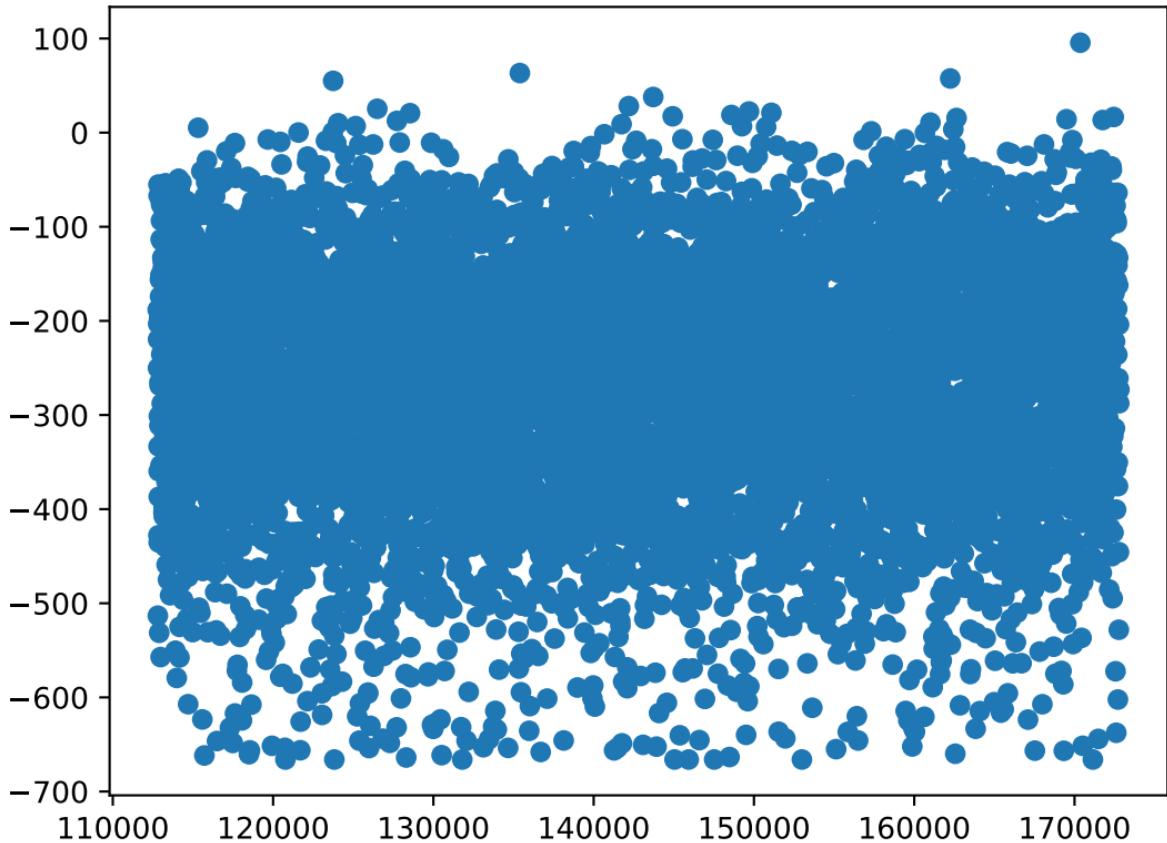
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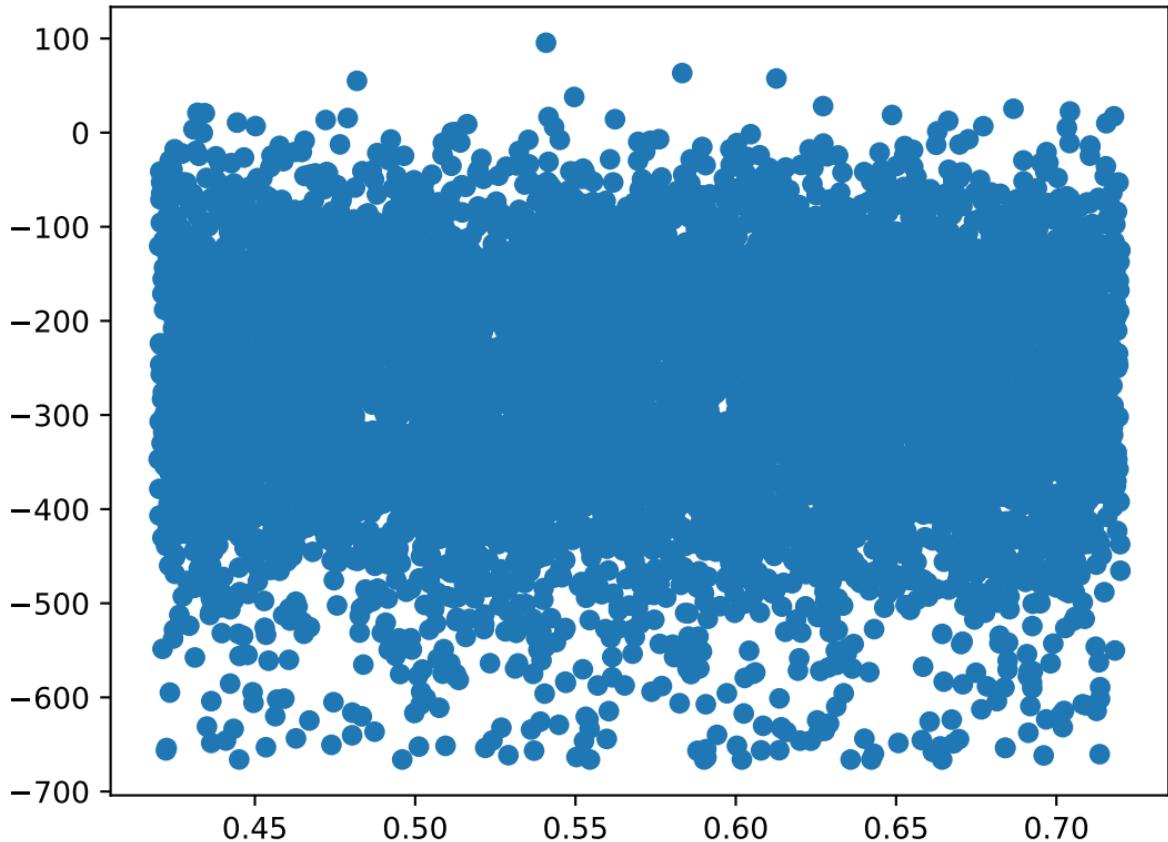
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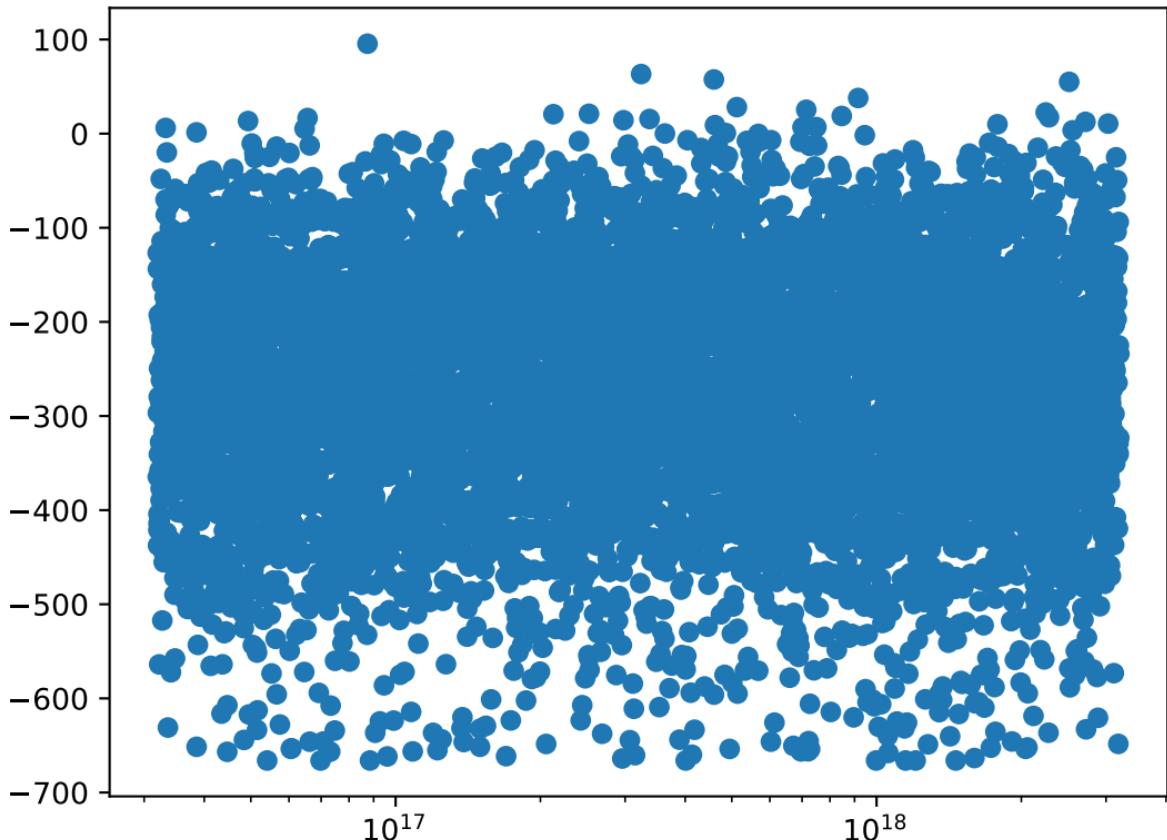
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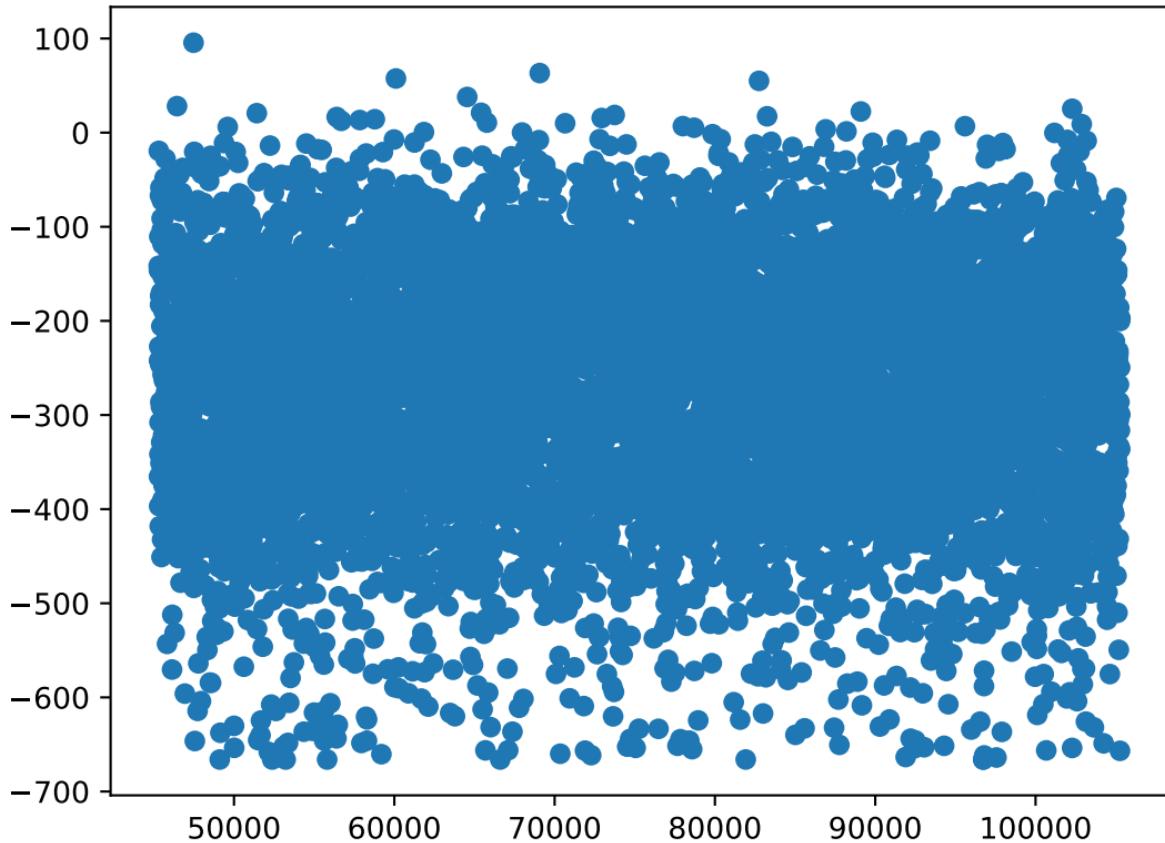
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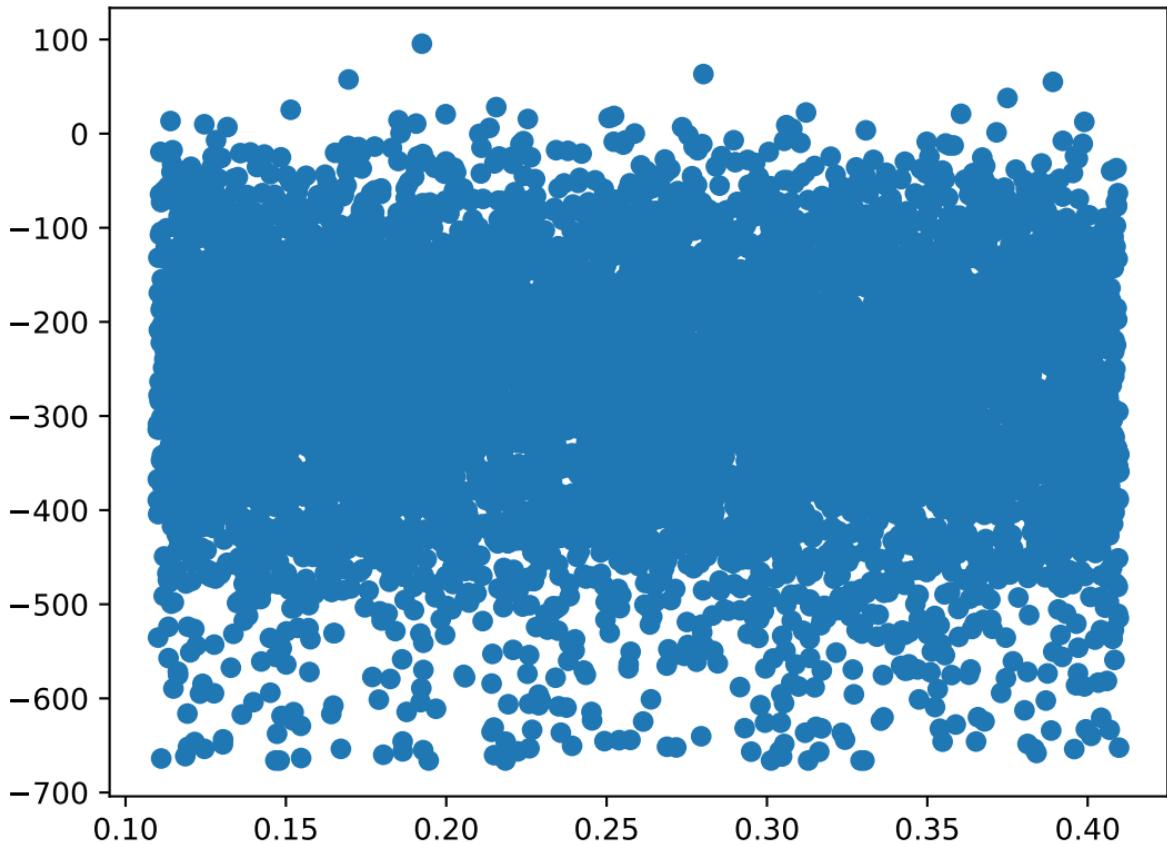
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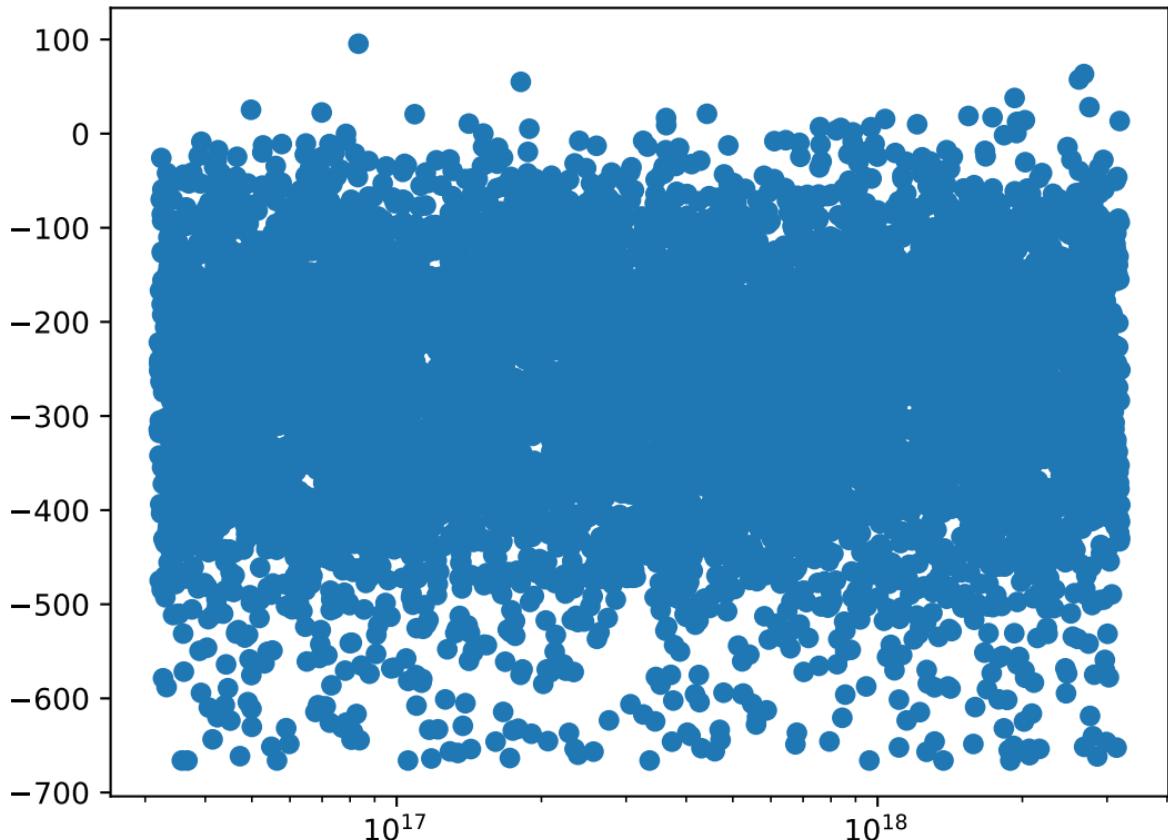
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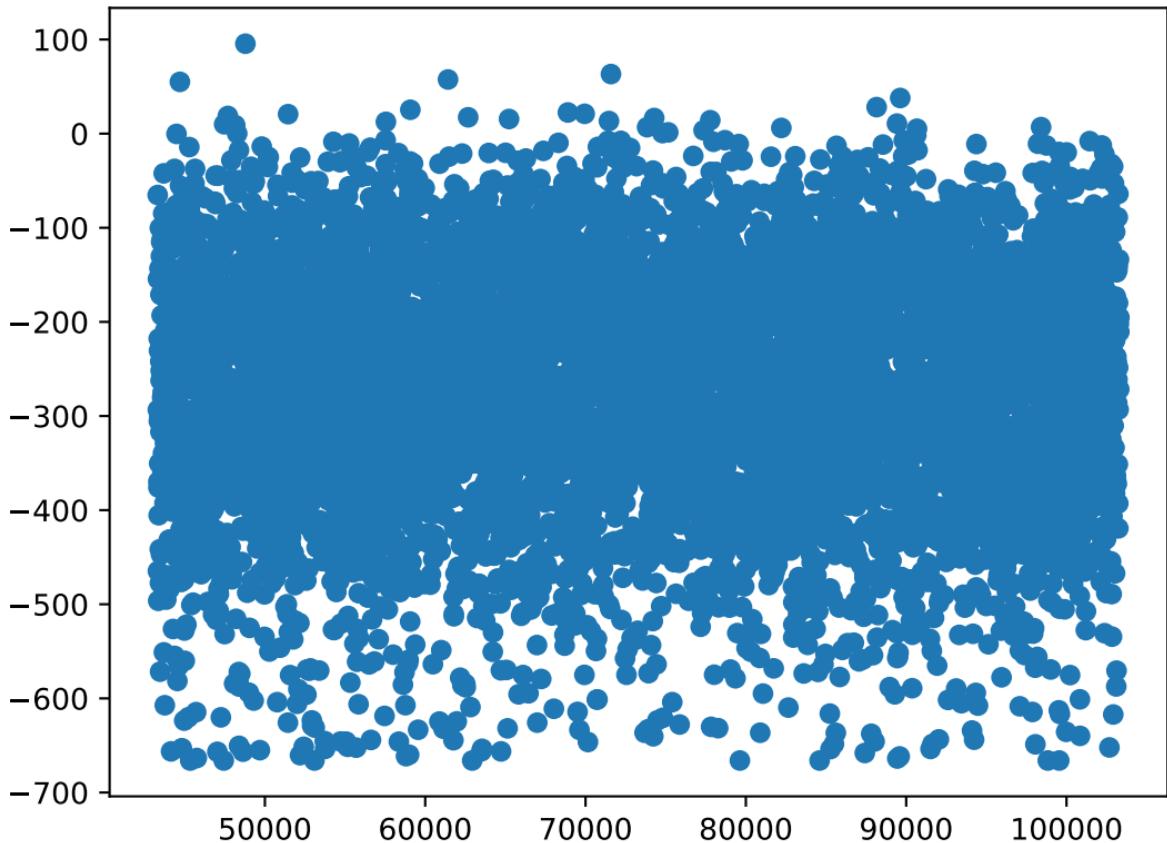
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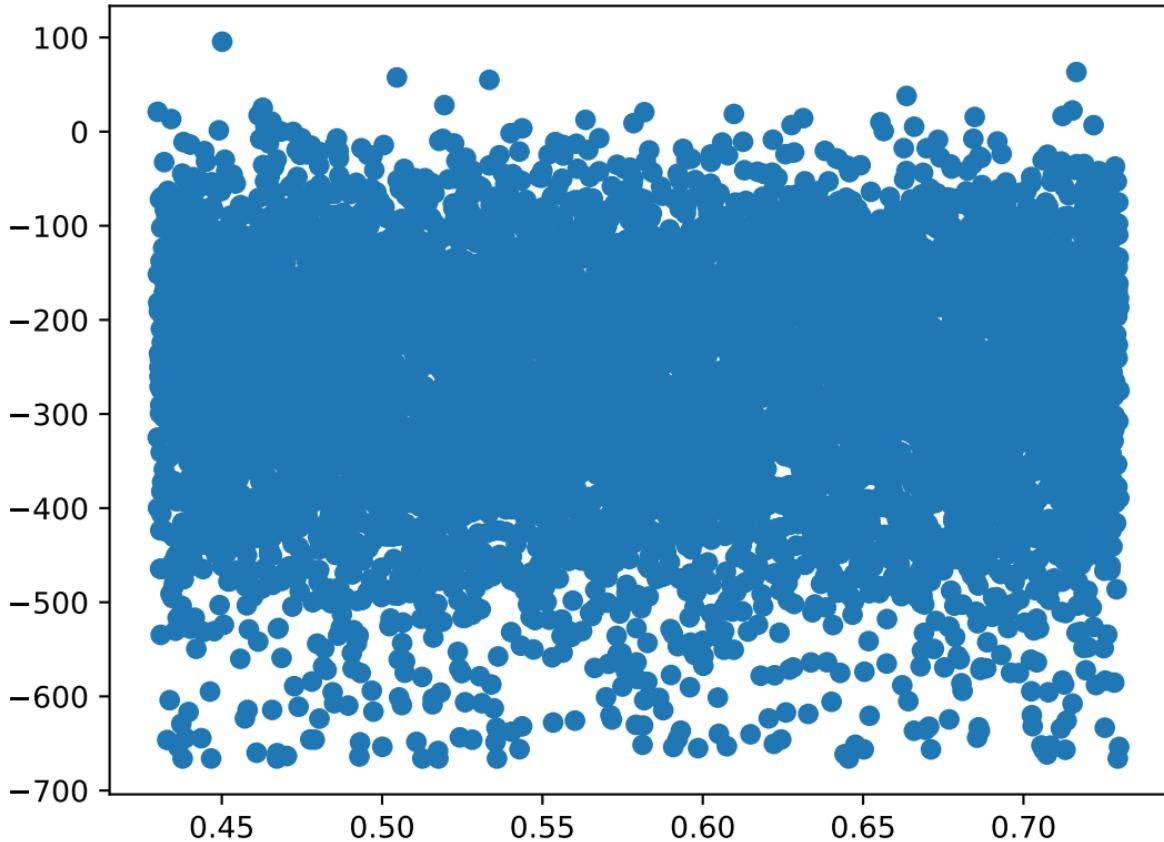
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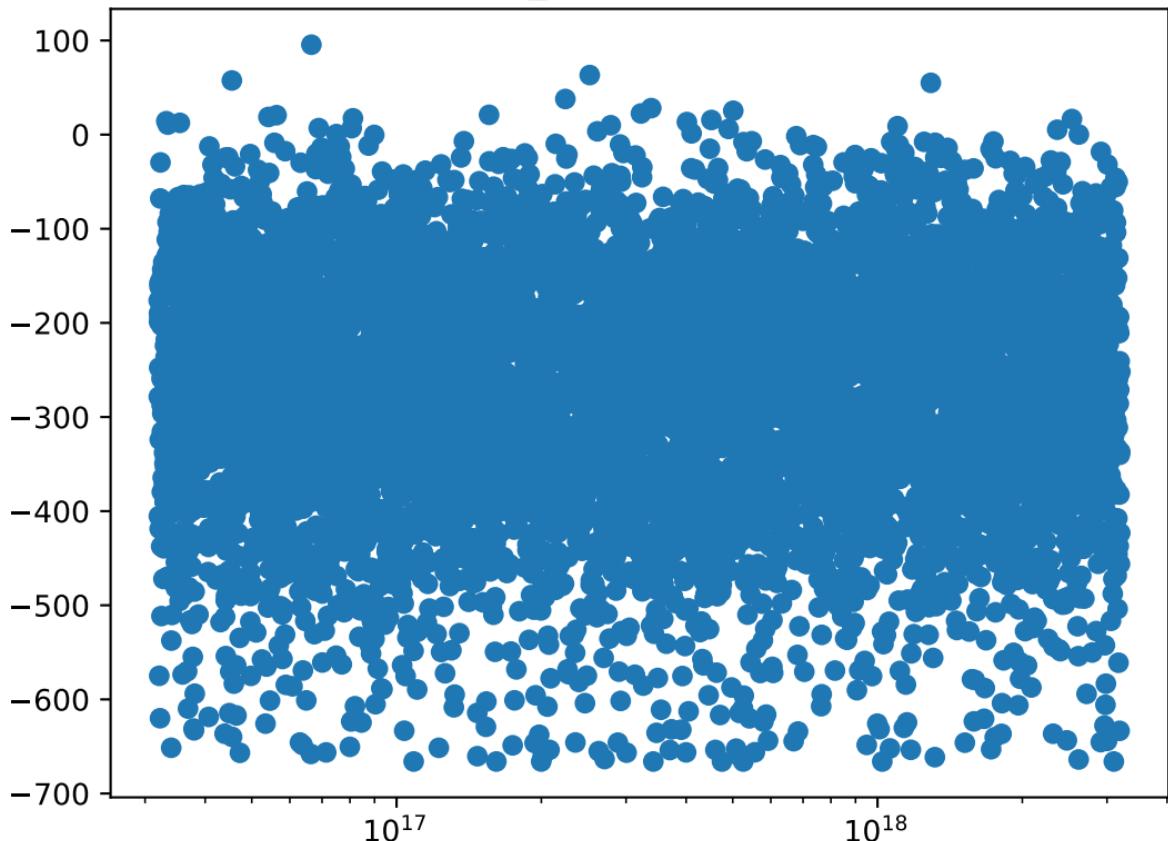
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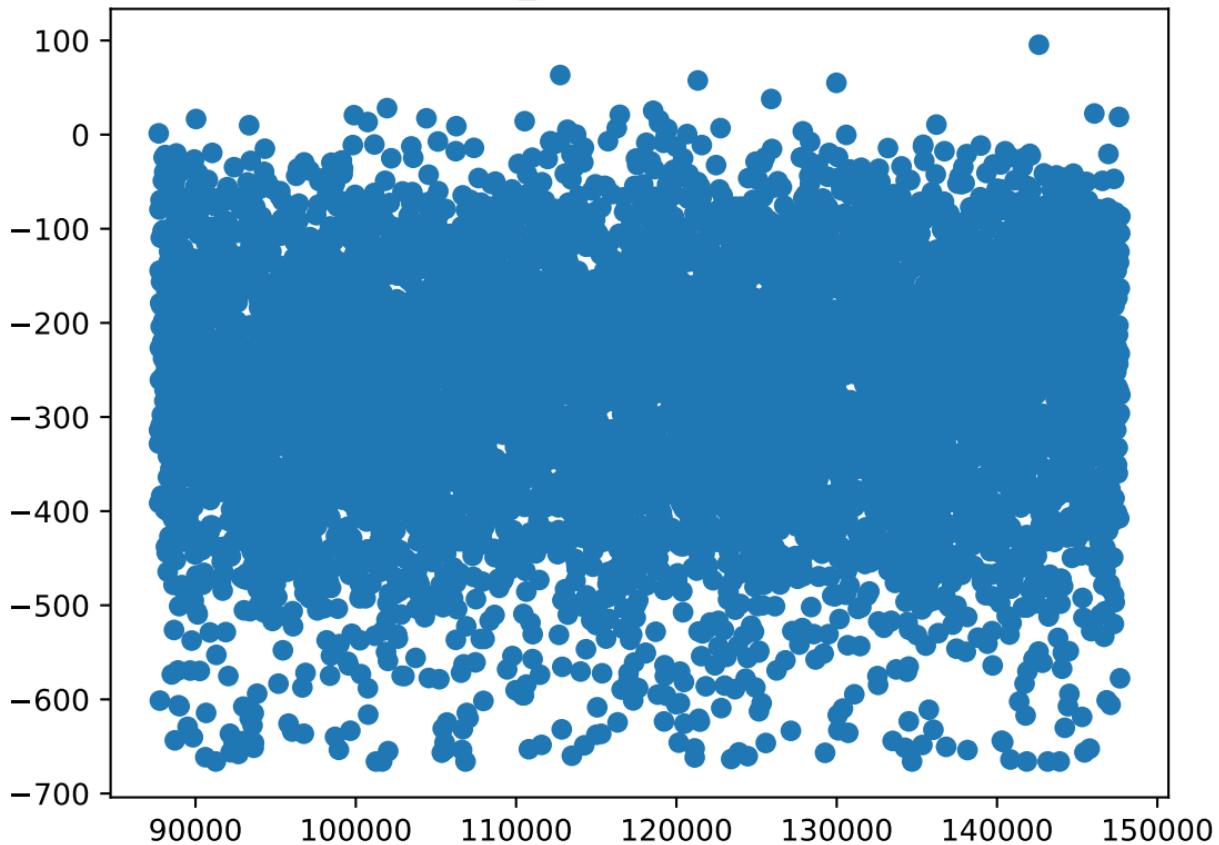
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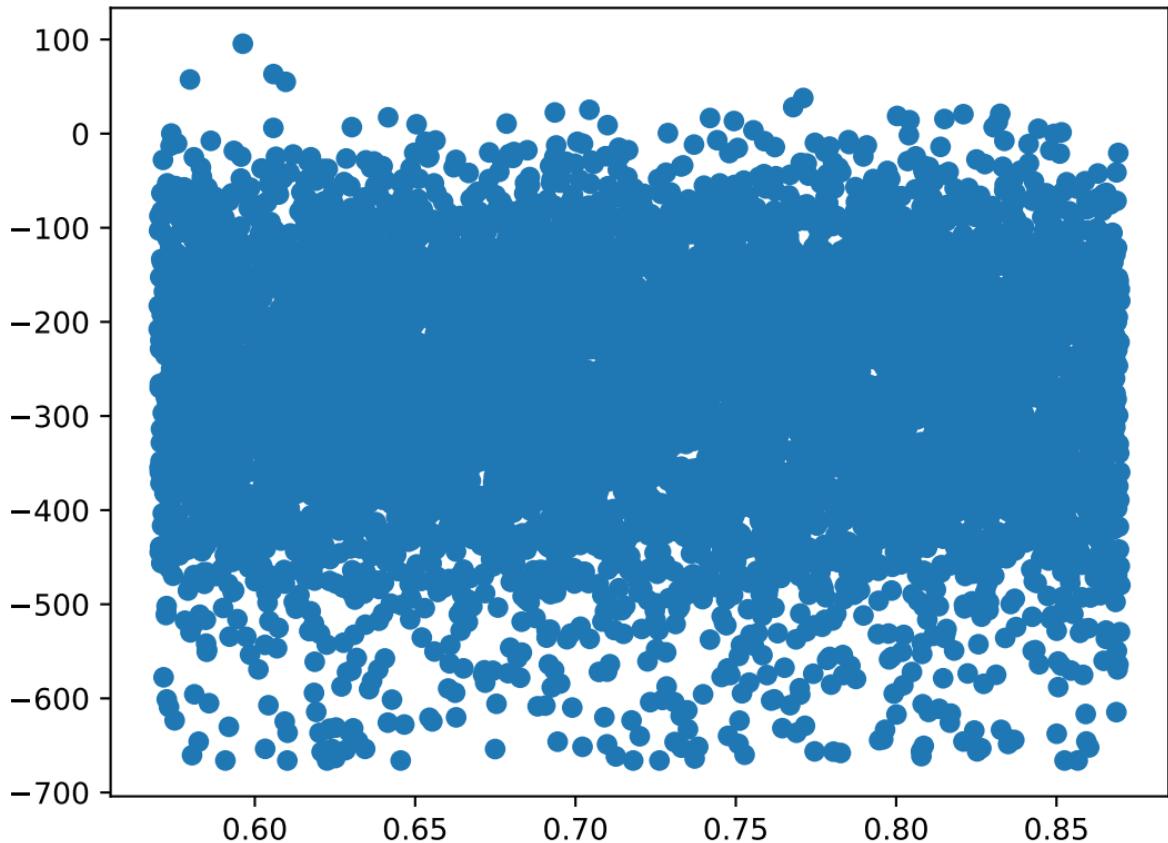
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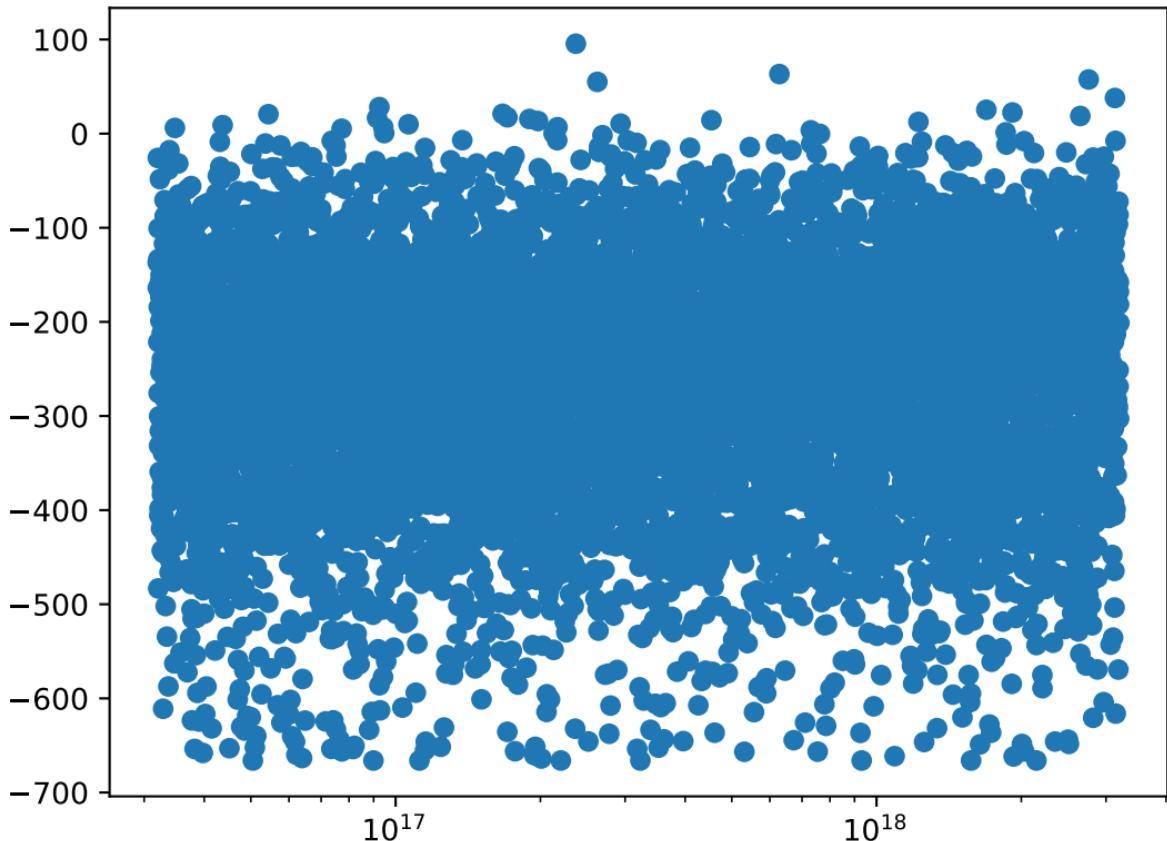
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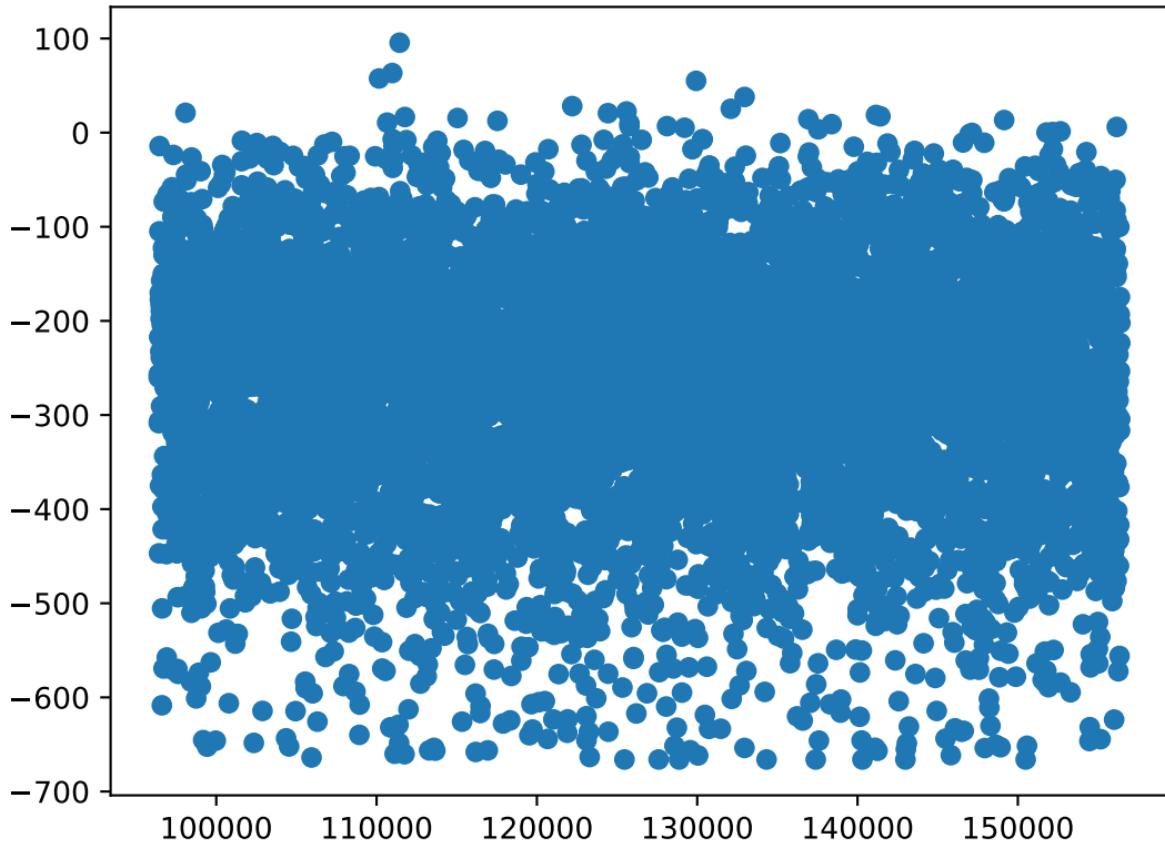
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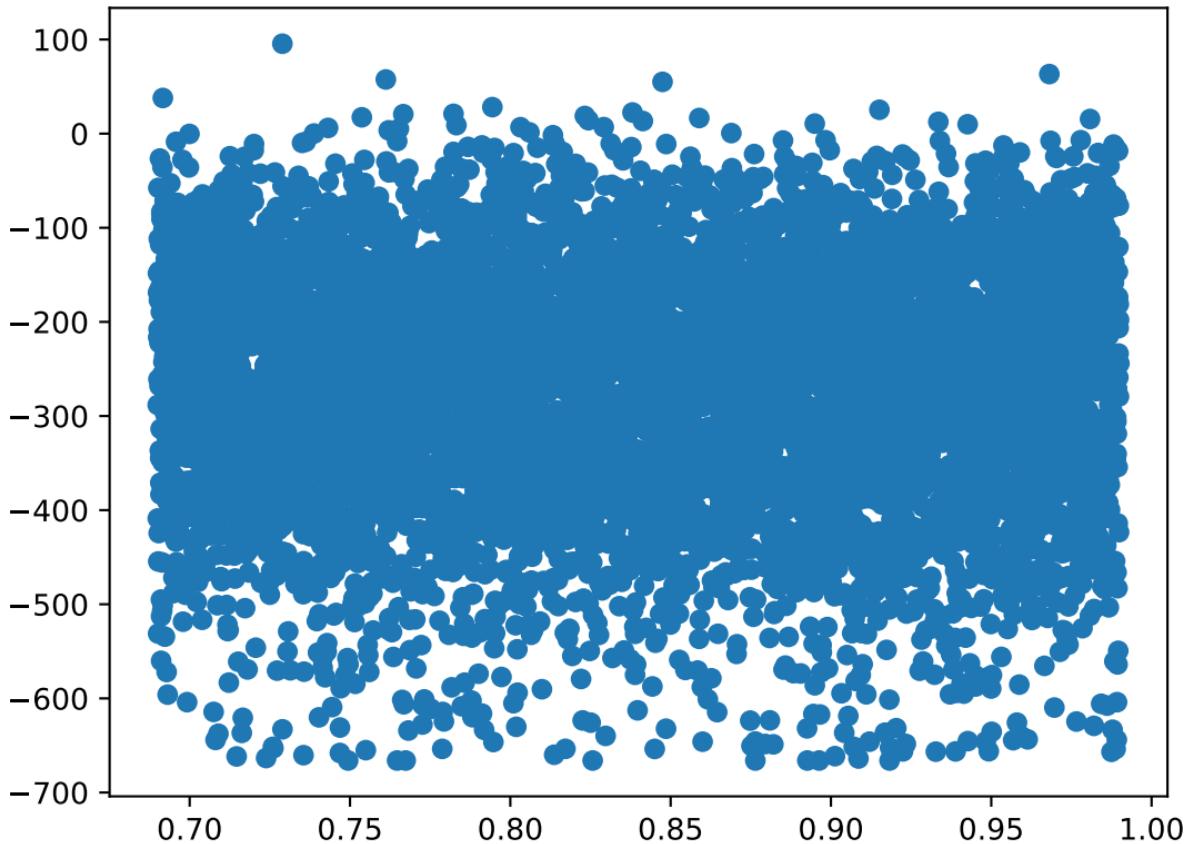
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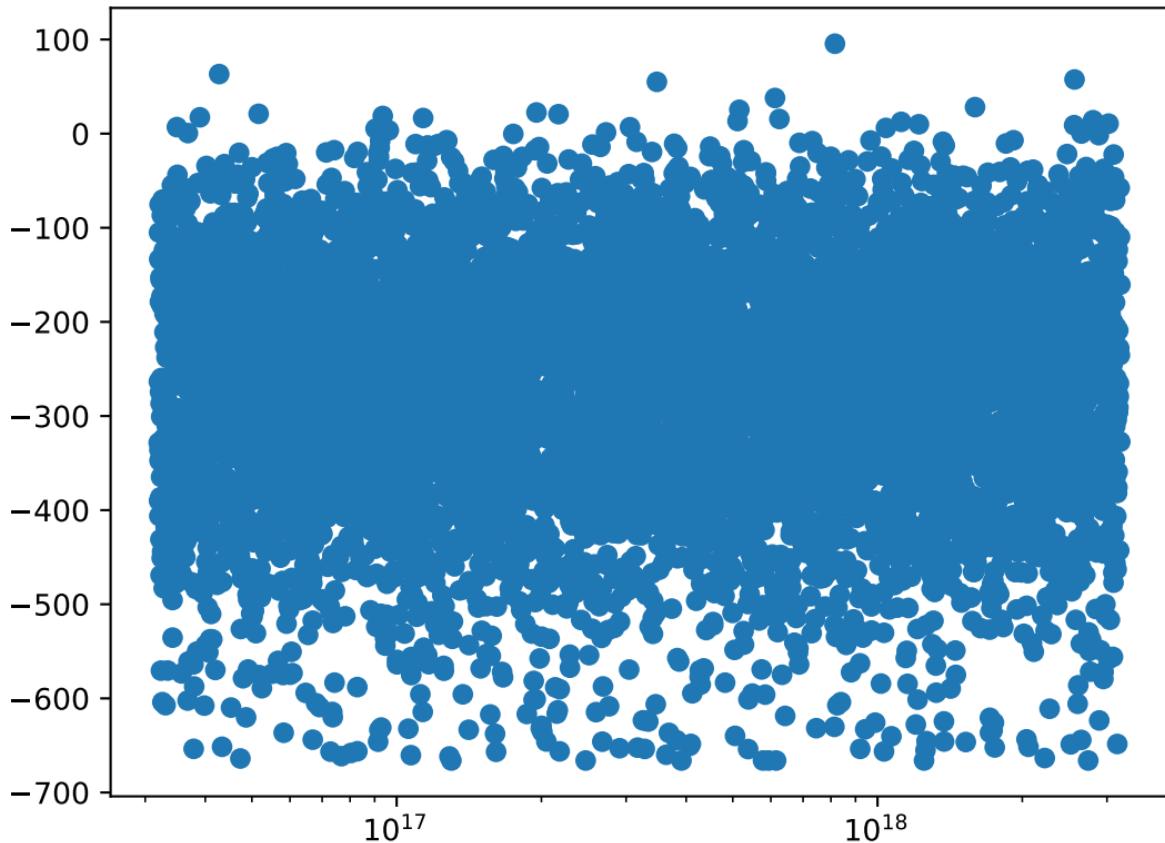
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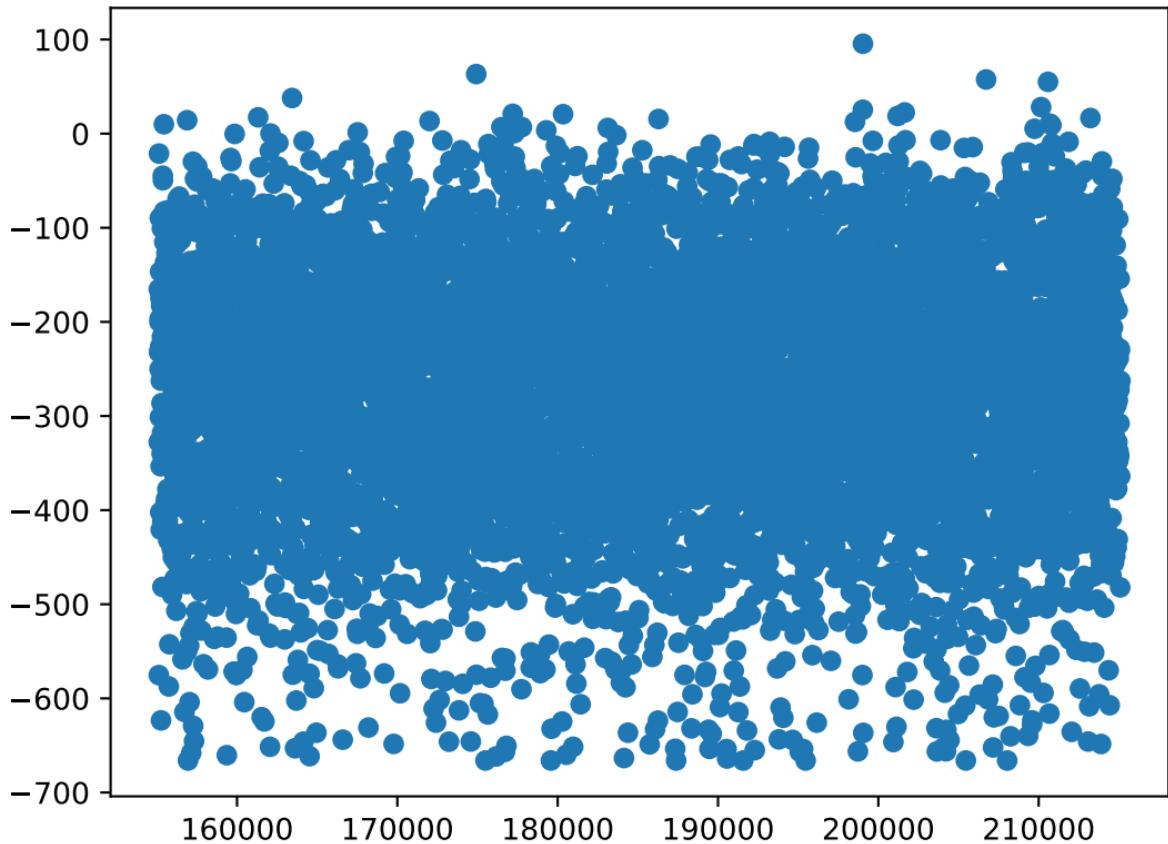
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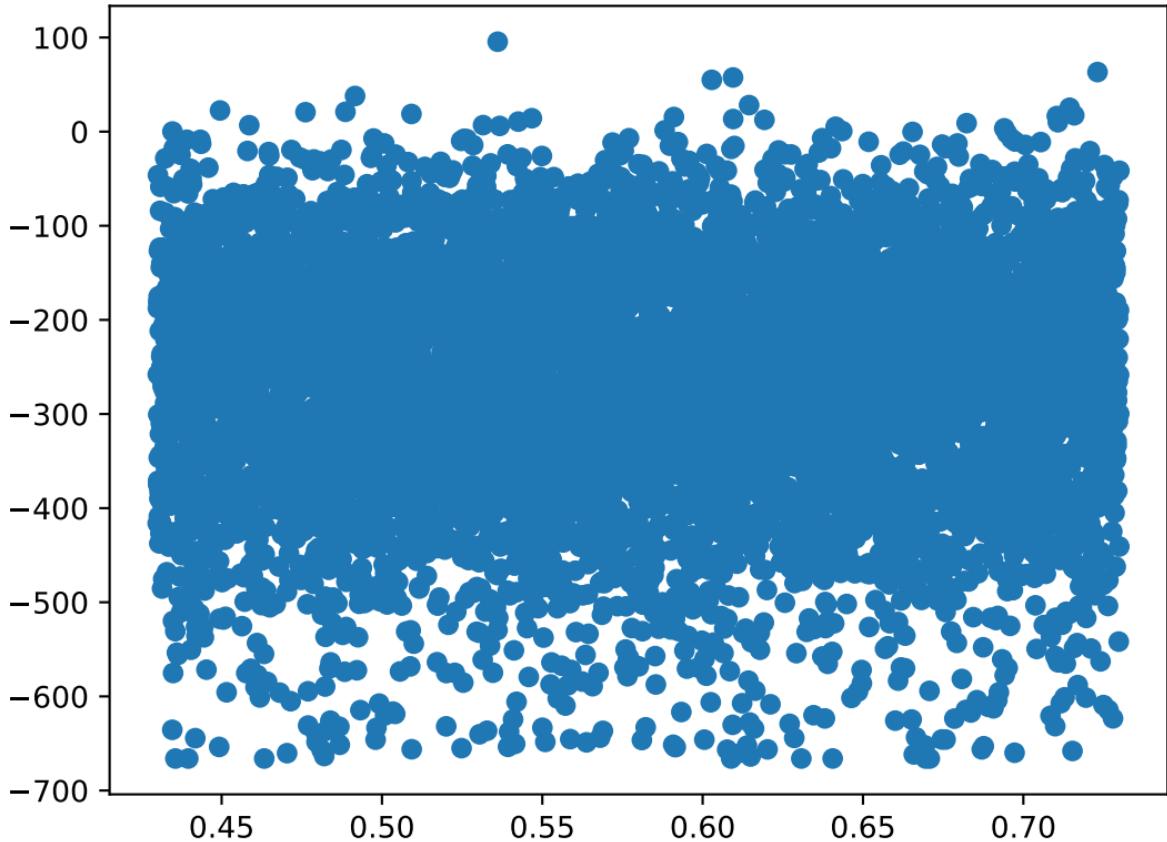
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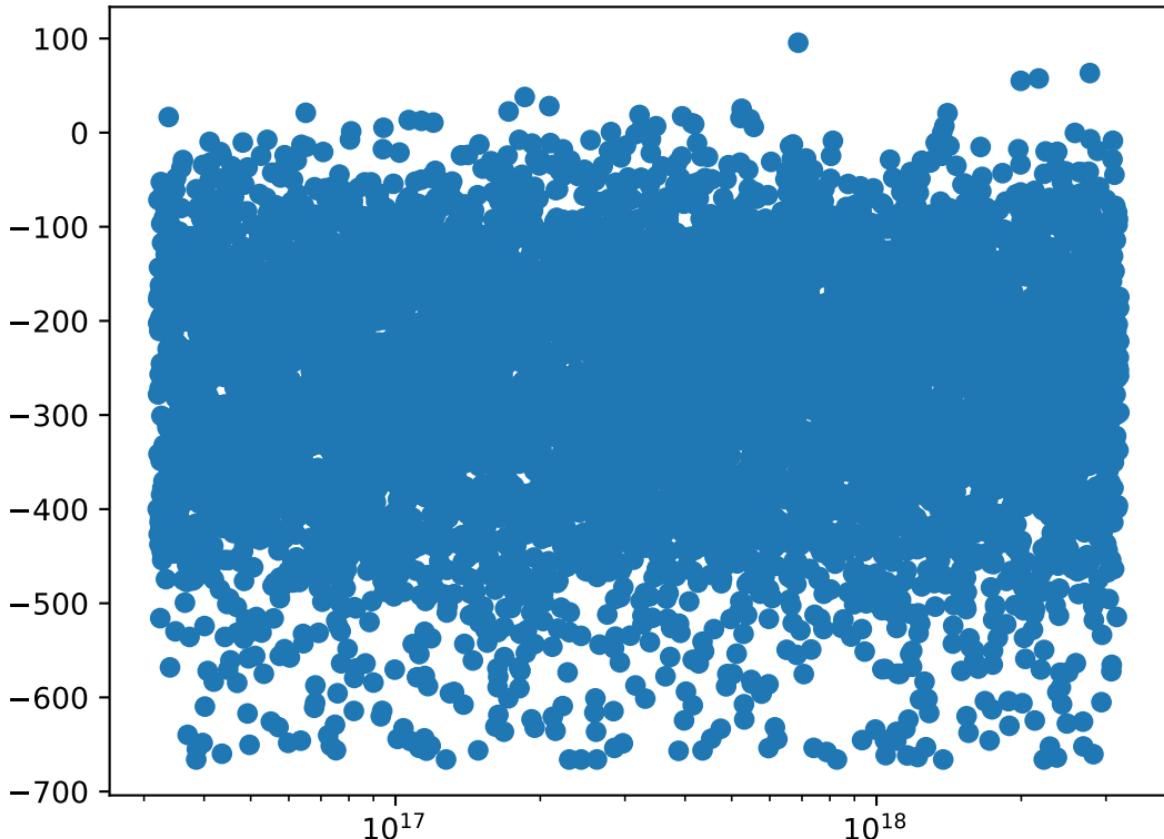
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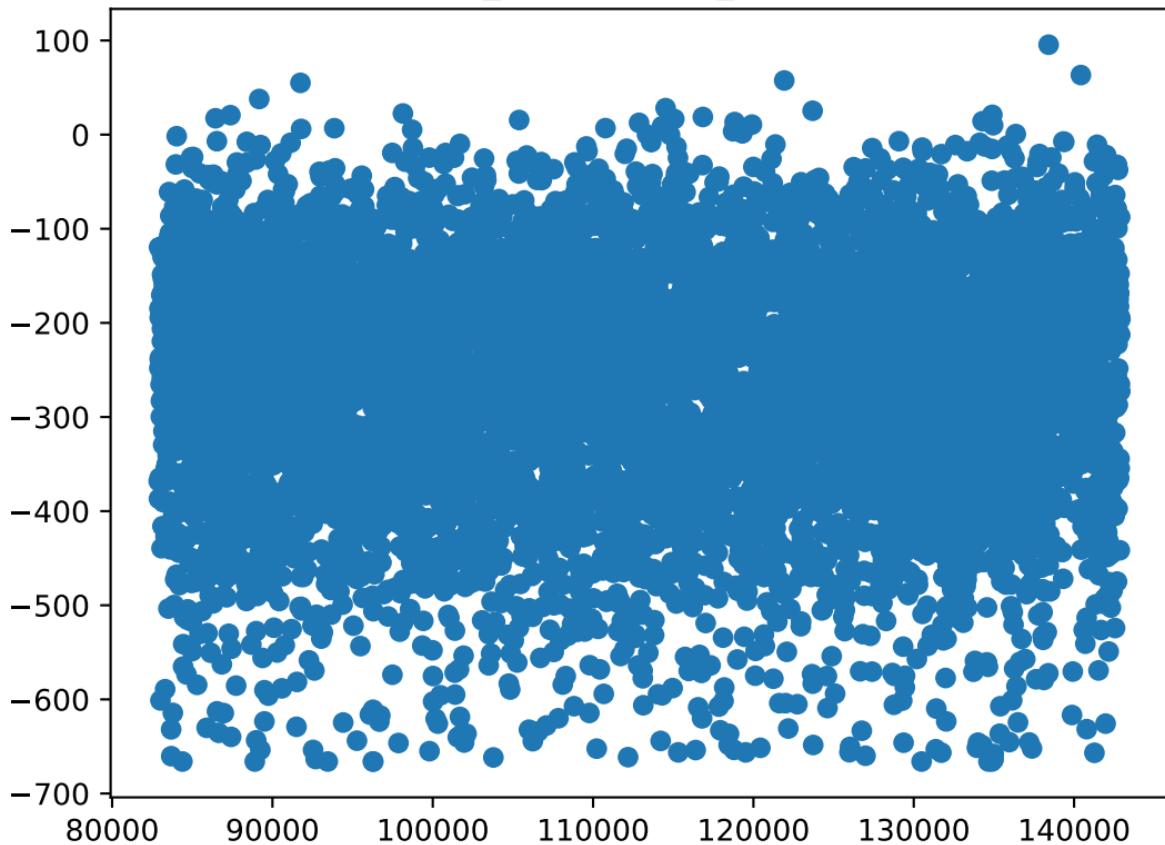
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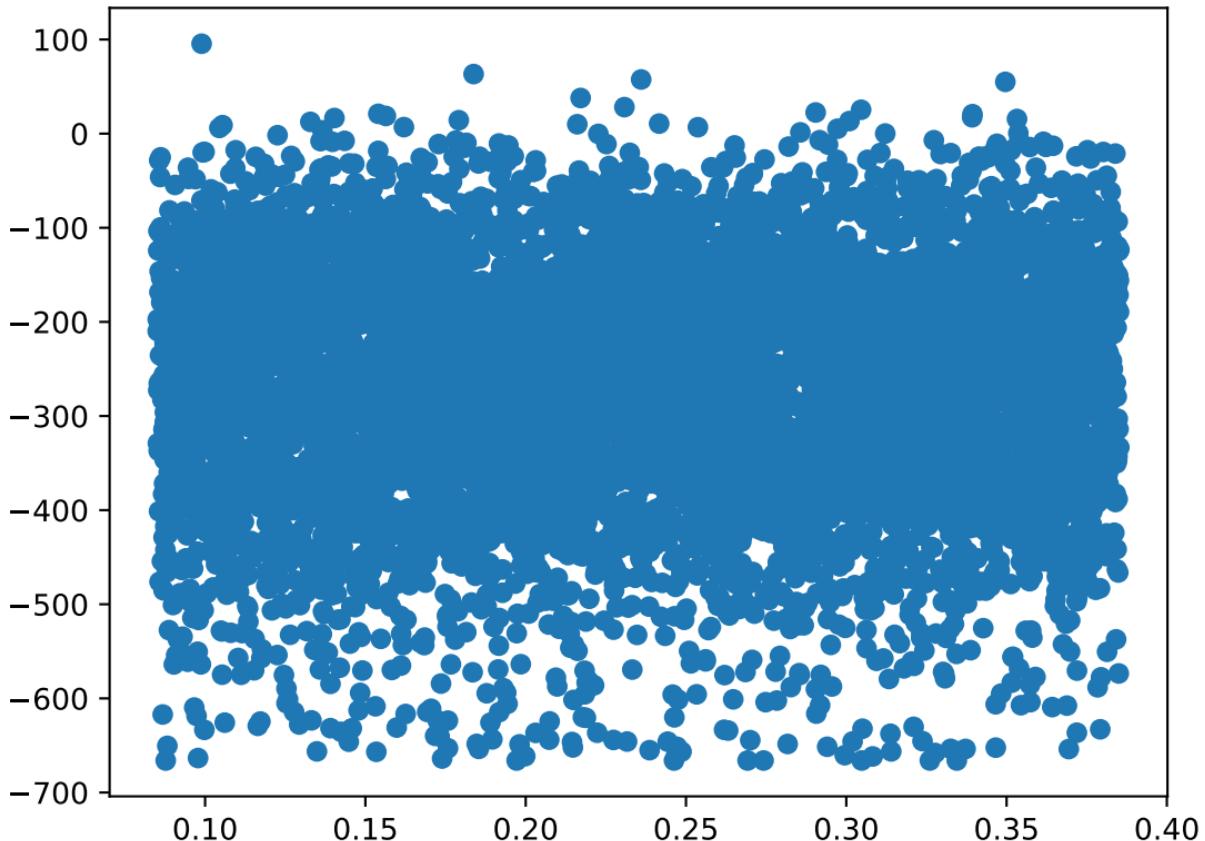
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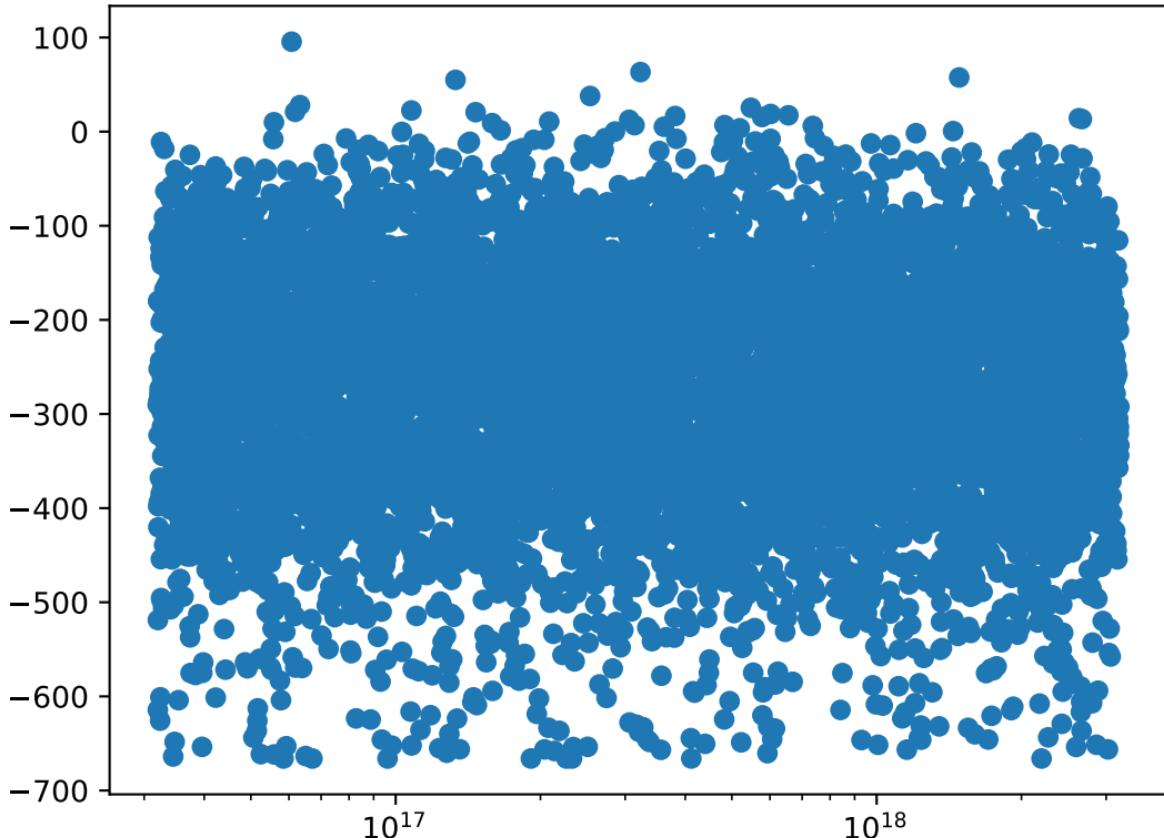
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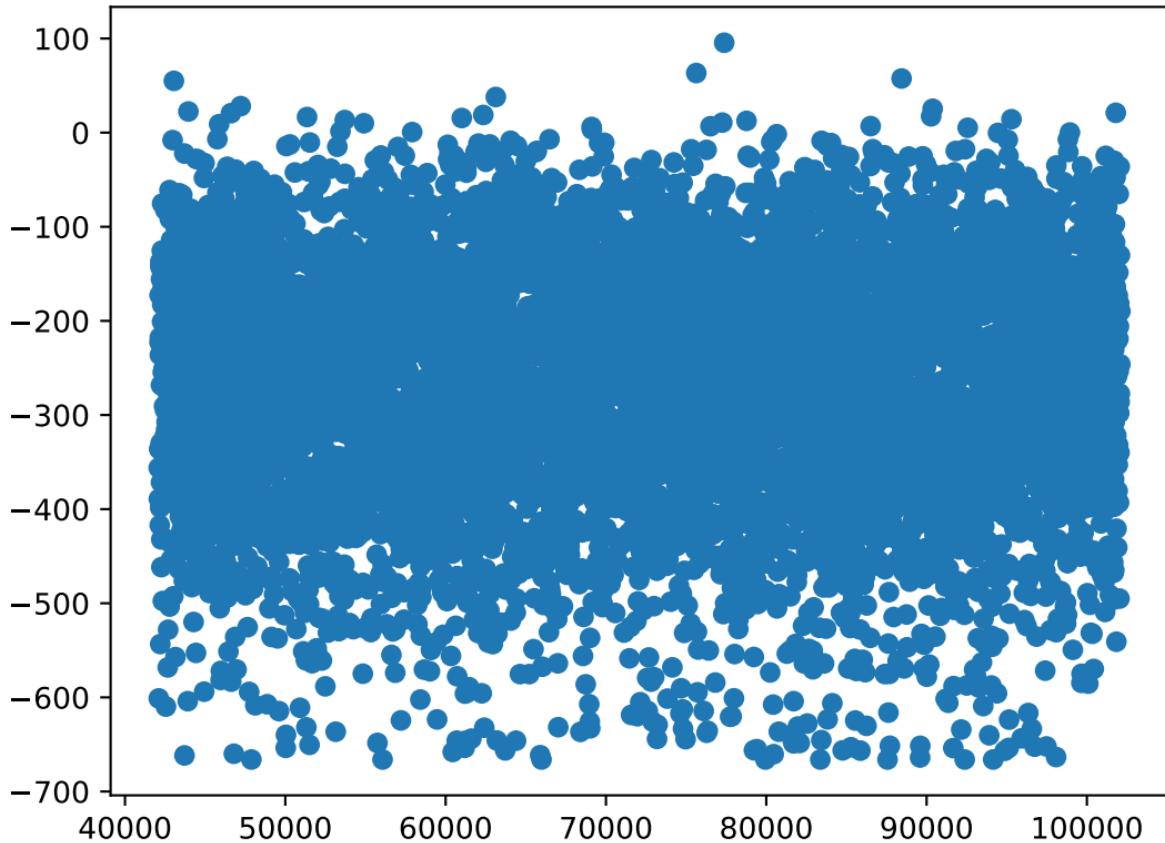
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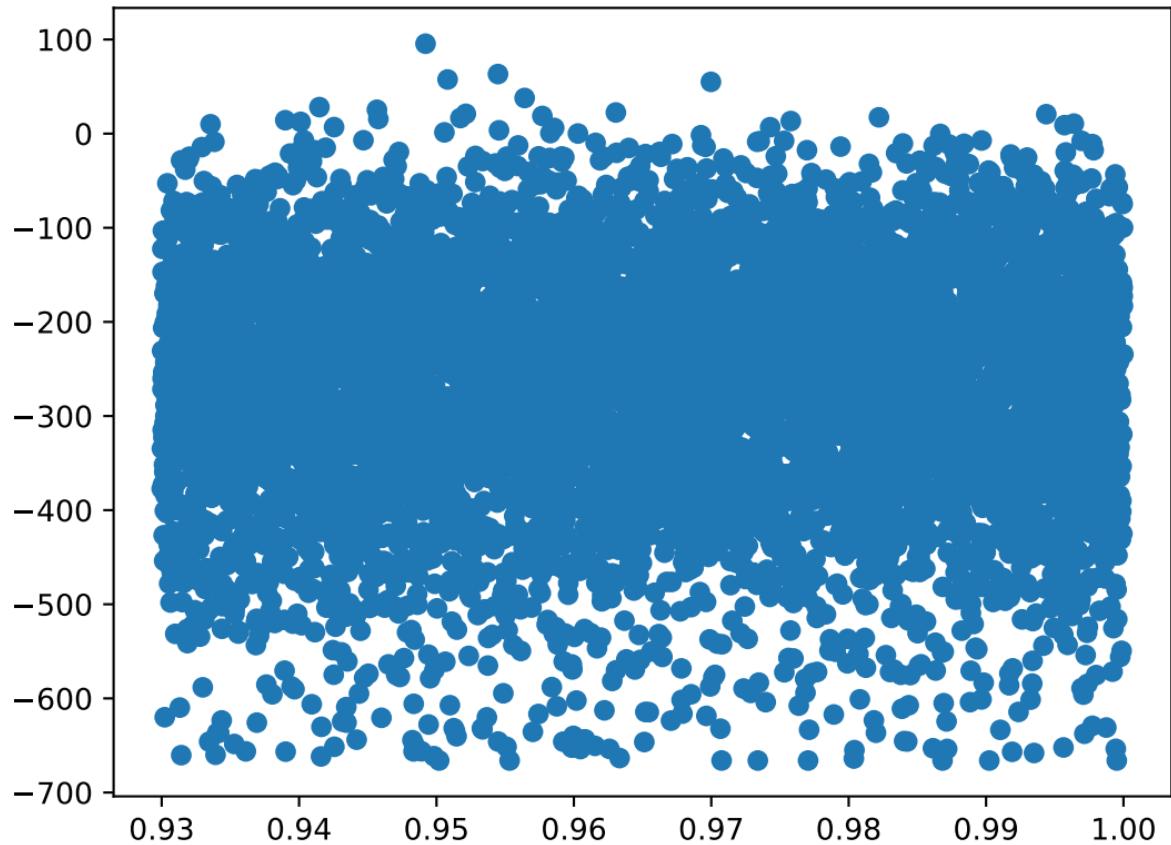
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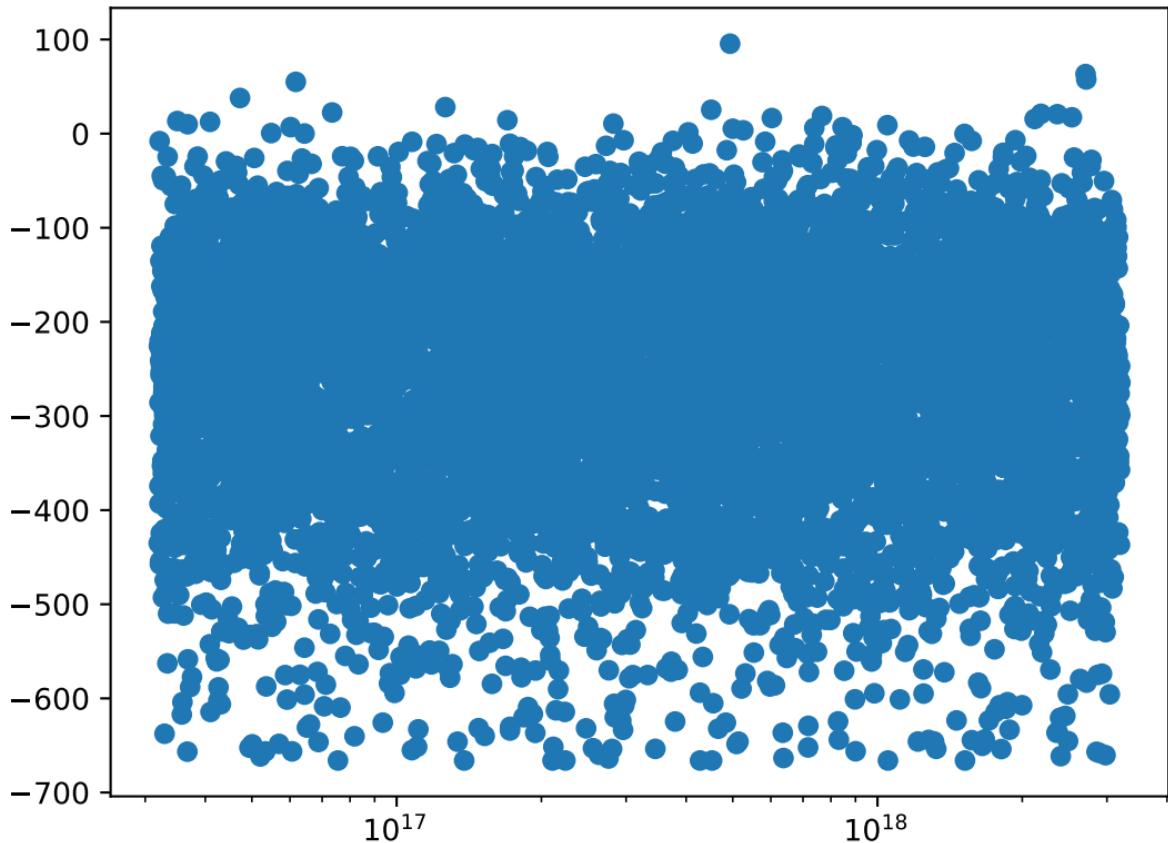
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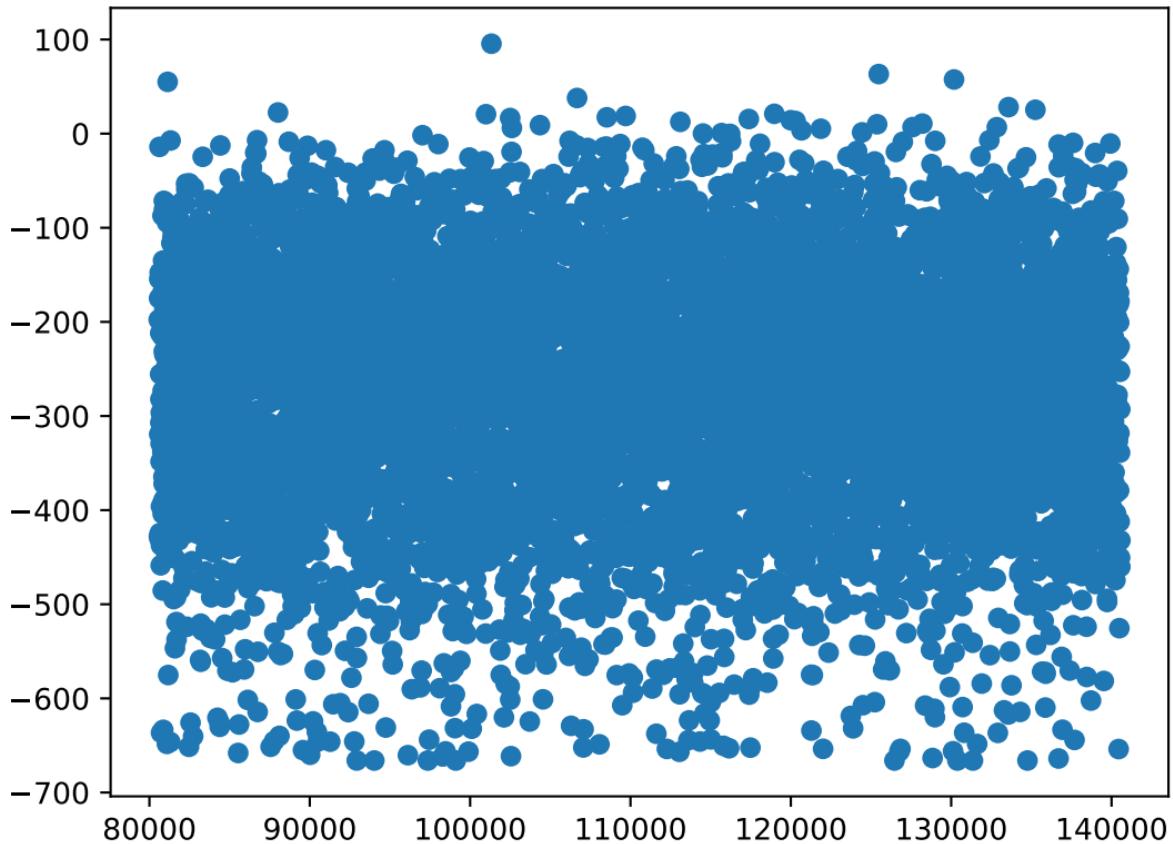
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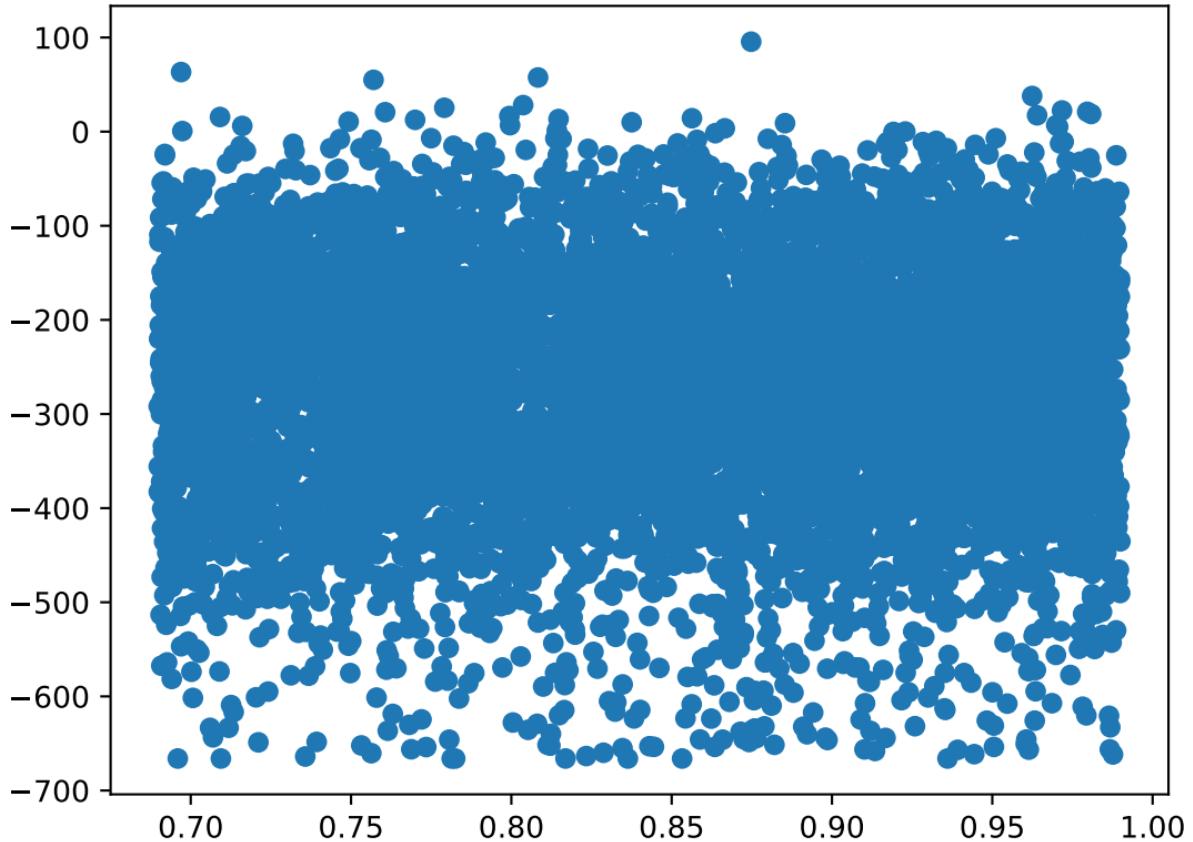
log obj func Surface_Dissociation_Beta_vdW/Combined;VacantSite/A



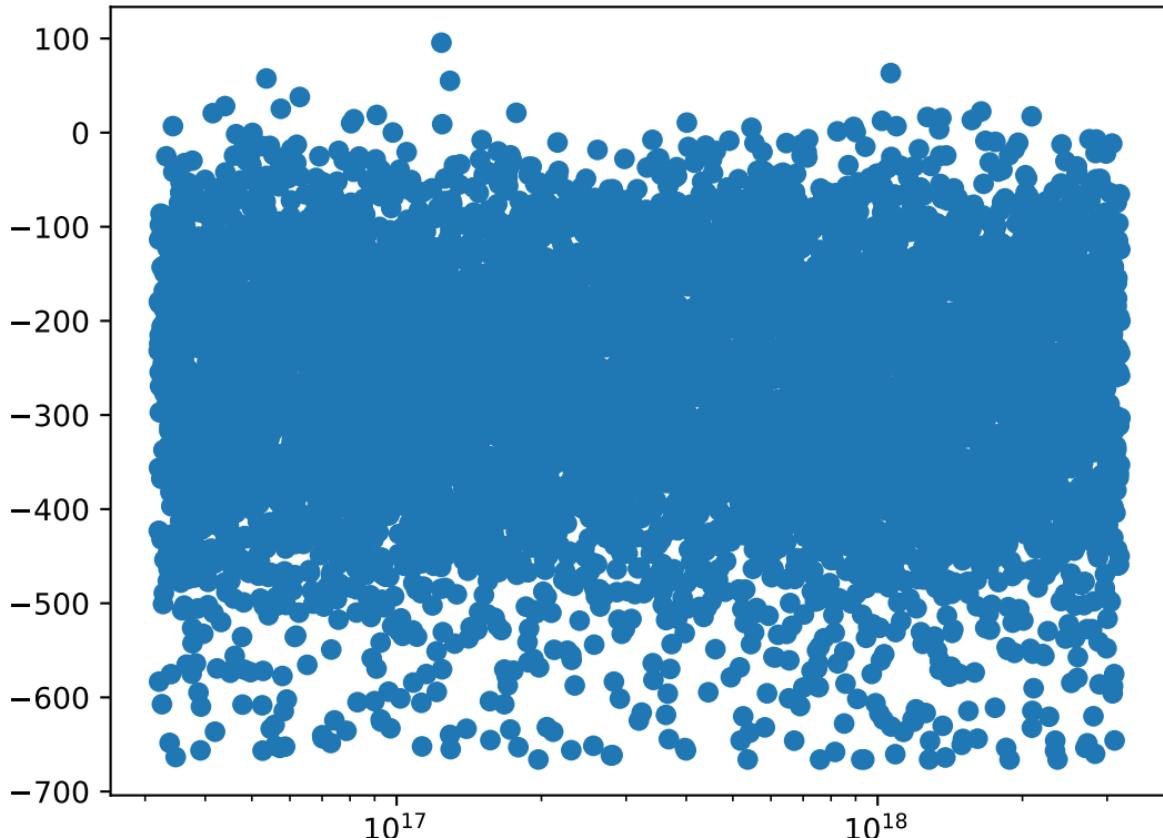
log obj func Surface_Dissociation_Beta_vdW/Combined;VacantSite/E0



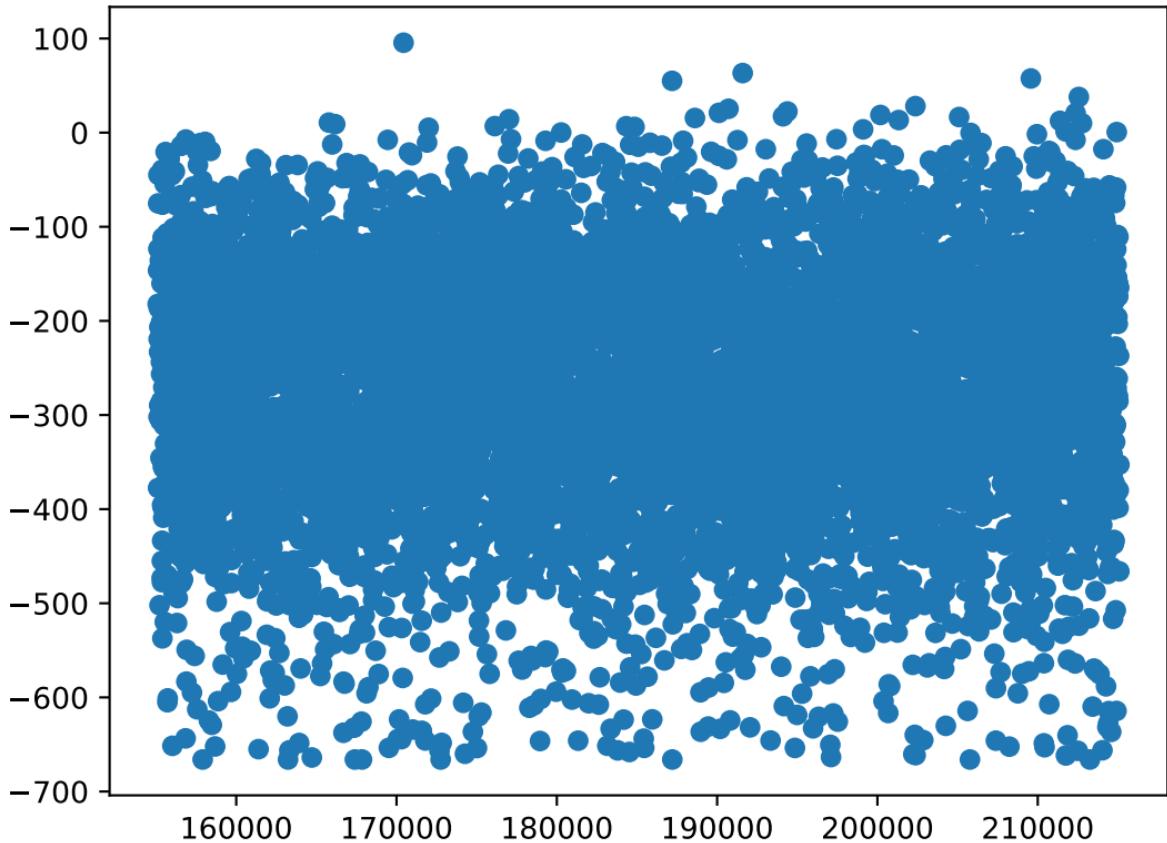
log obj func Surface_Dissociation_Double/Combined;VacantSite/alpha



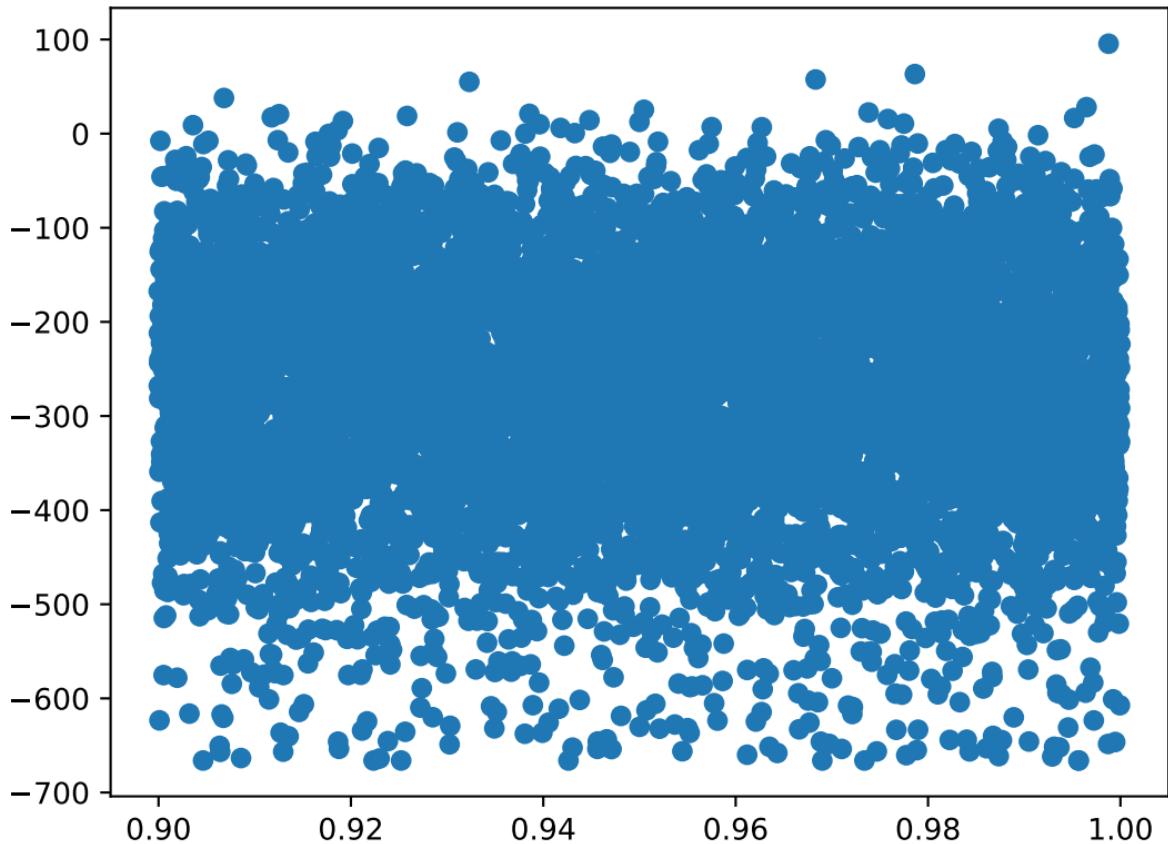
log obj func Surface_Dissociation_Double/Combined;VacantSite/A



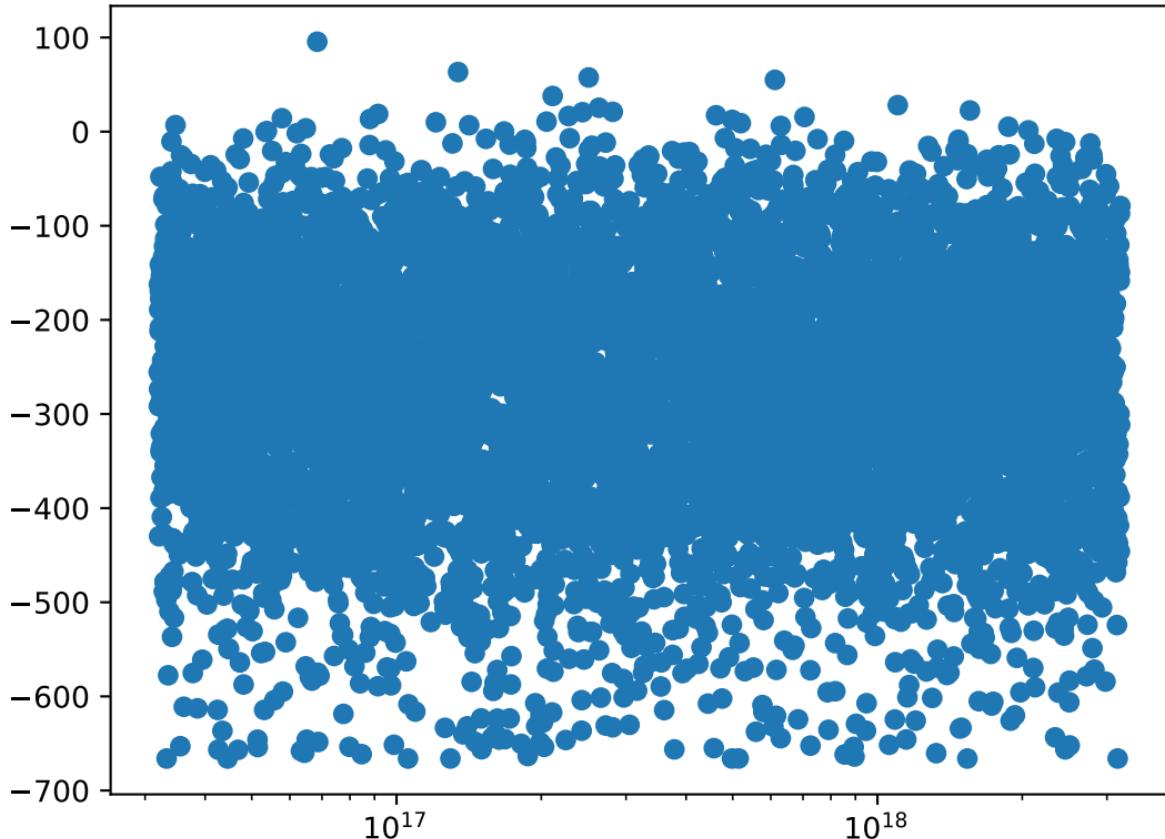
log obj func Surface_Dissociation_Double/Combined;VacantSite/E0



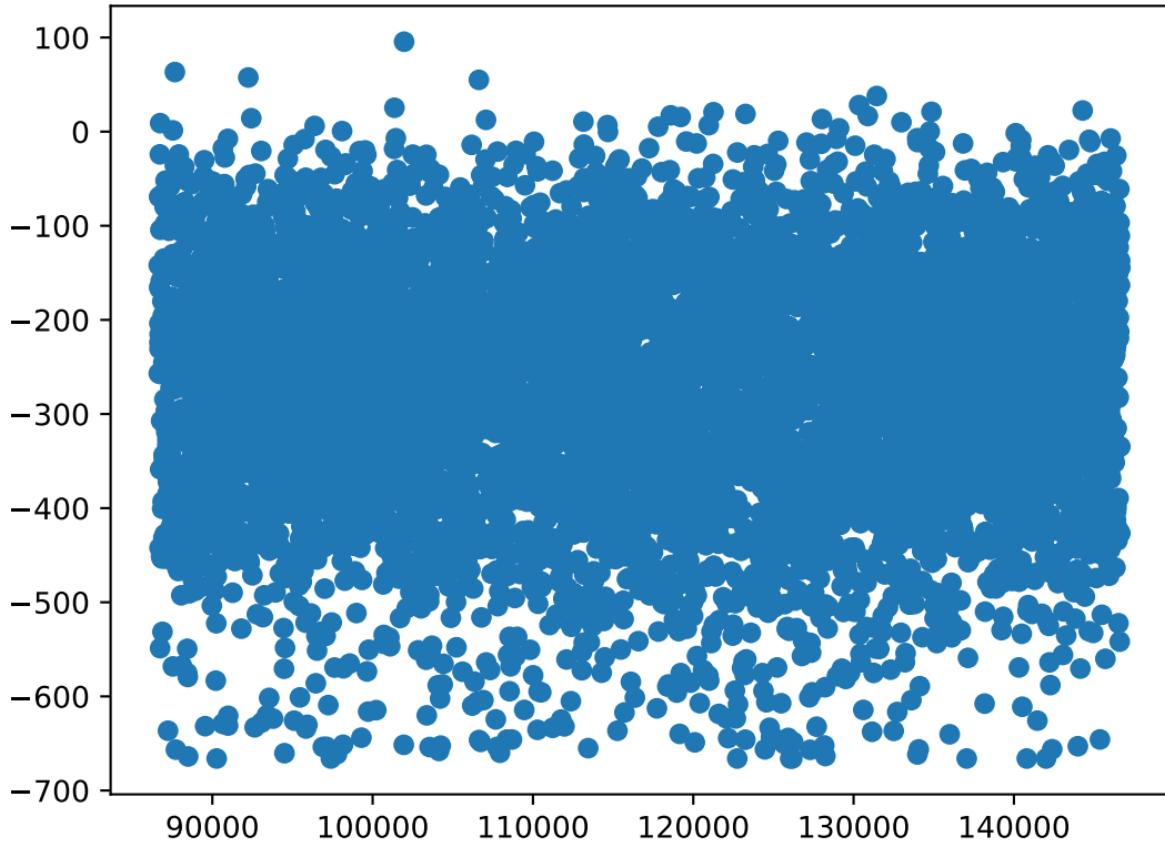
log obj func Surface_Dissociation_Double/C=O;VacantSite/alpha



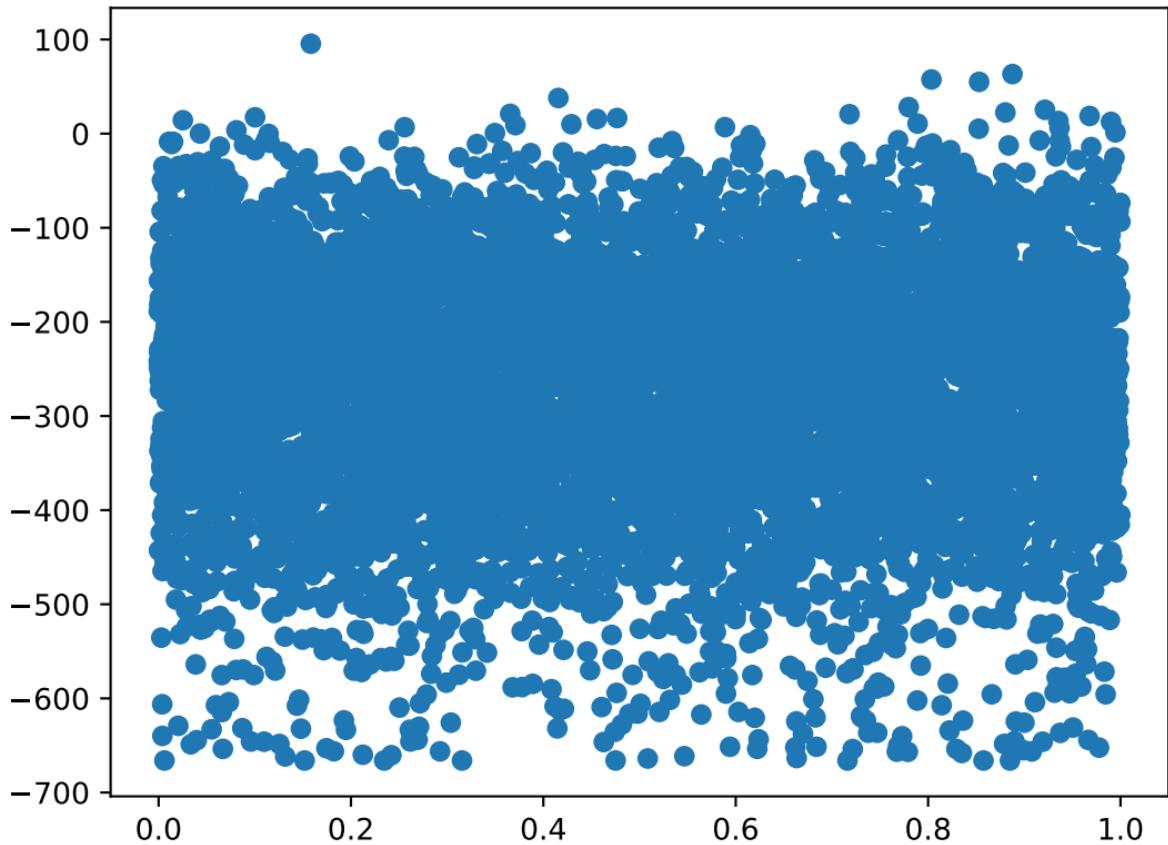
log obj func Surface_Dissociation_Double/C=O;VacantSite/A



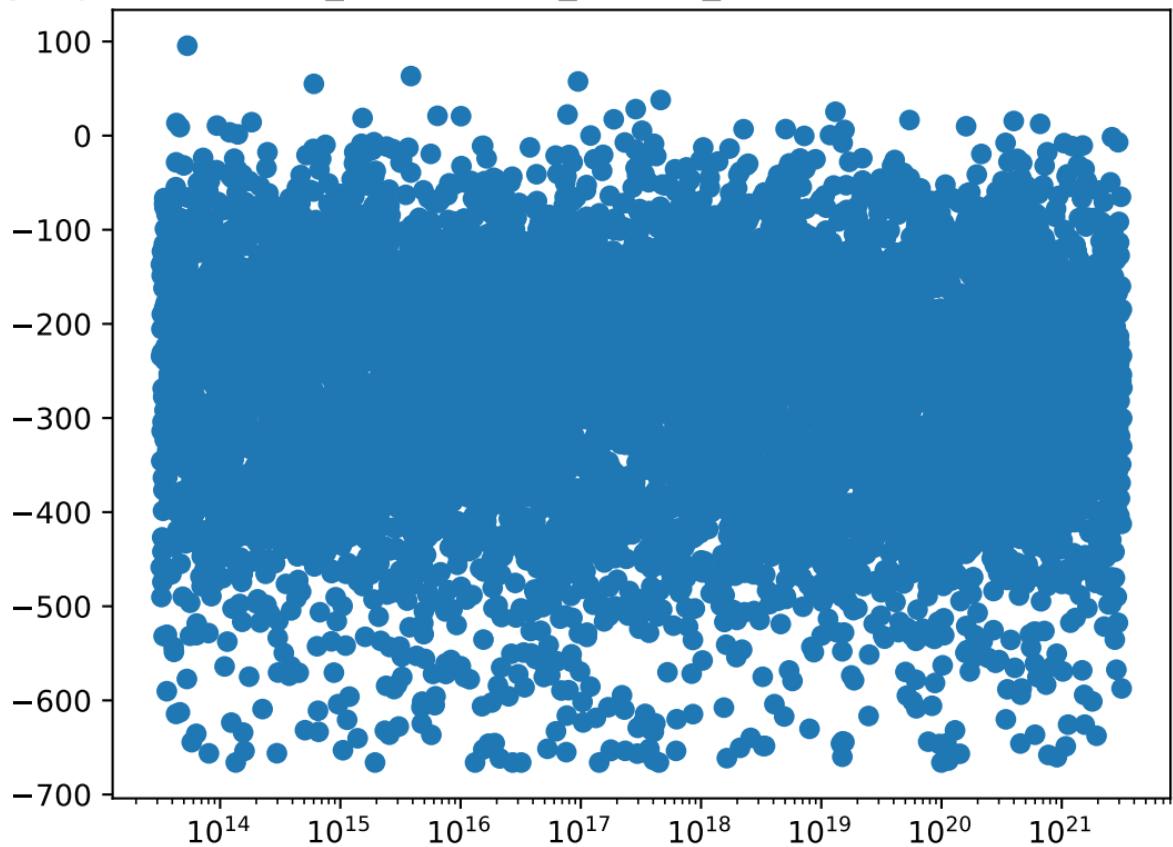
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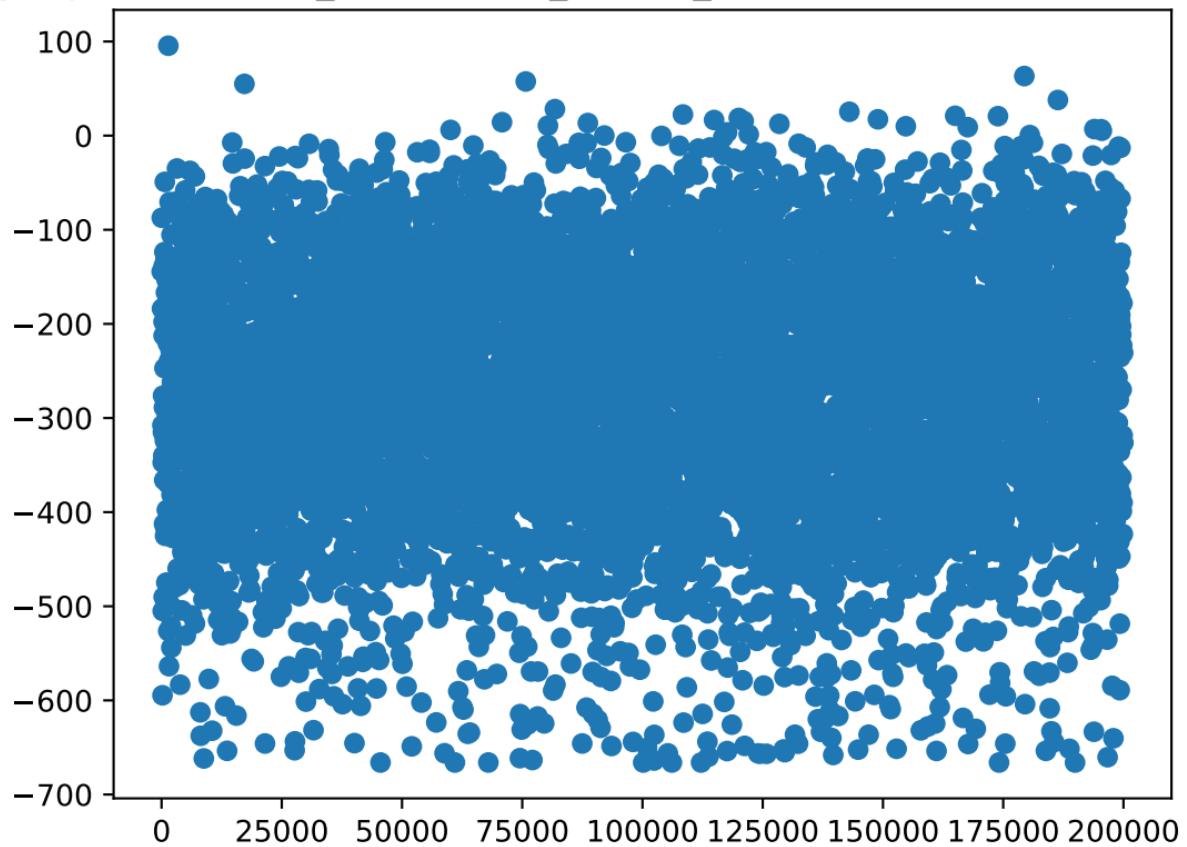
og obj func Surface_Dissociation_Double_vdW/AdsorbateVdW;VacantSite/alpha



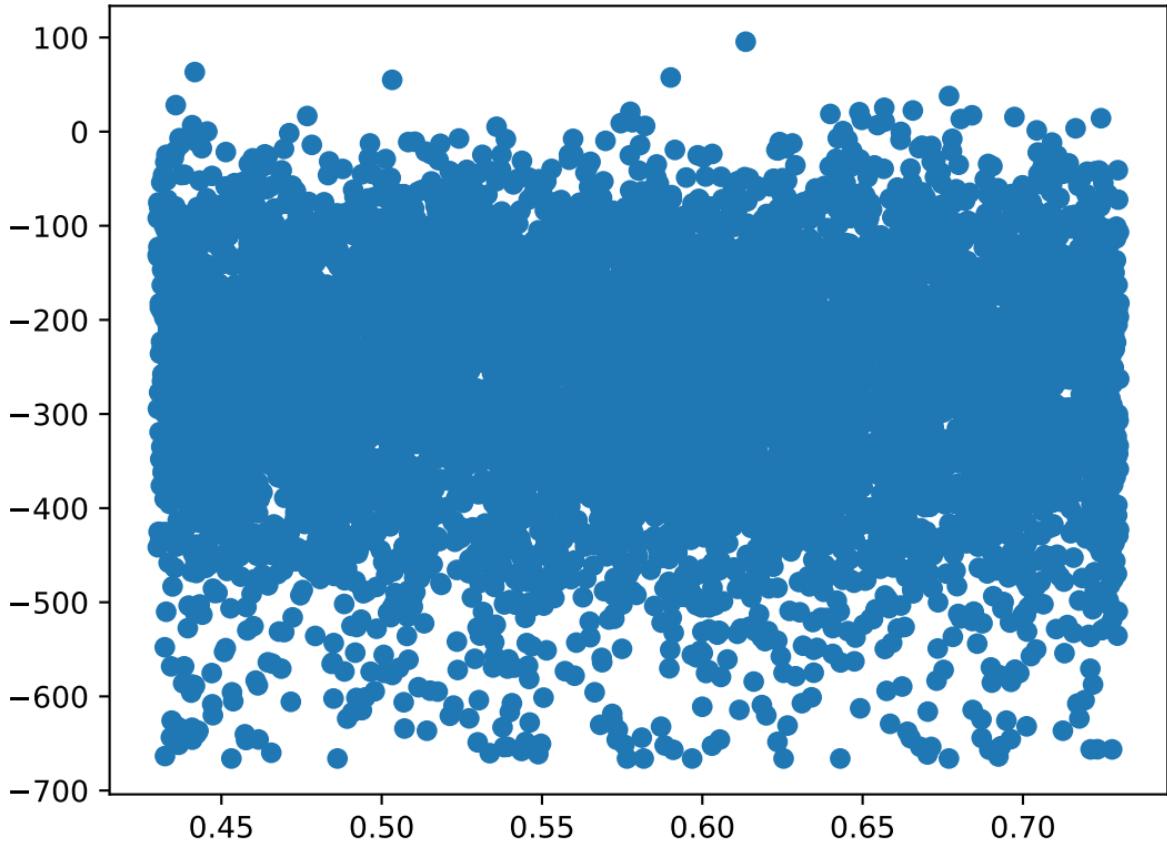
log obj func Surface_Dissociation_Double_vdW/AdsorbateVdW;VacantSite/A



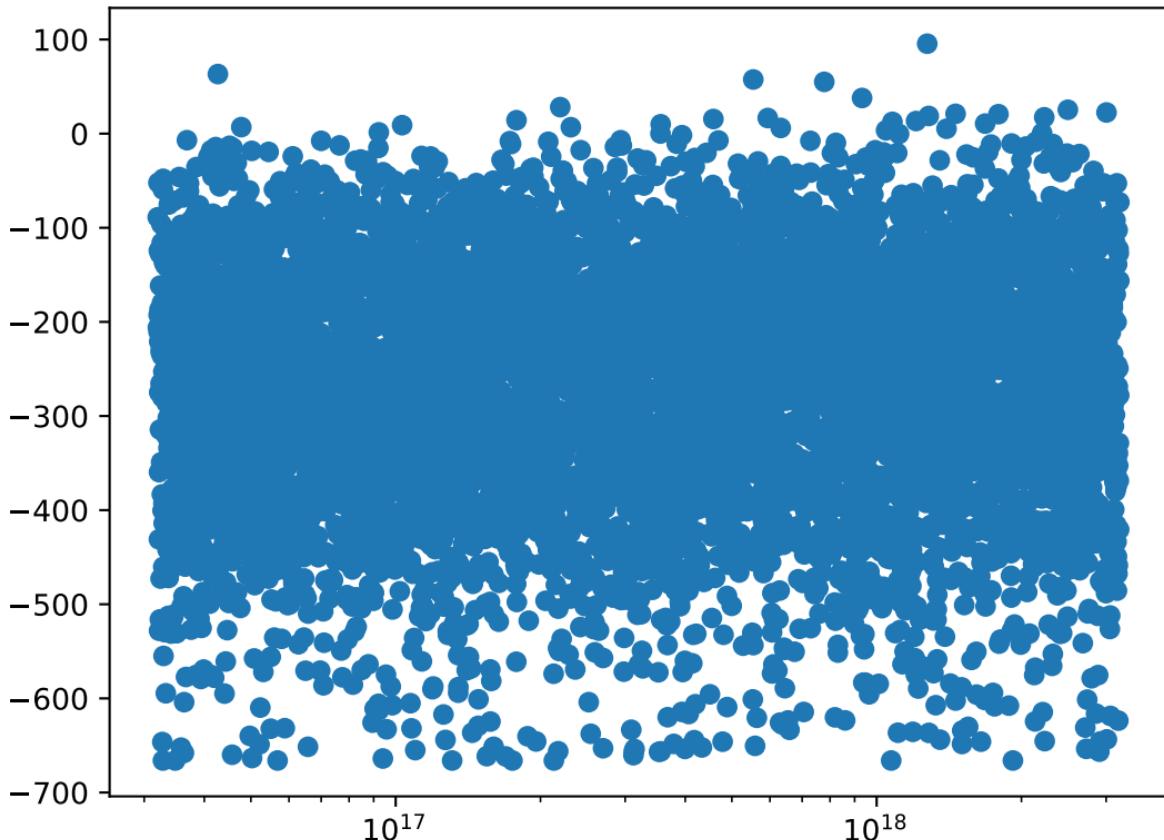
log obj func Surface_Dissociation_Double_vdW/AdsorbateVdW;VacantSite/E



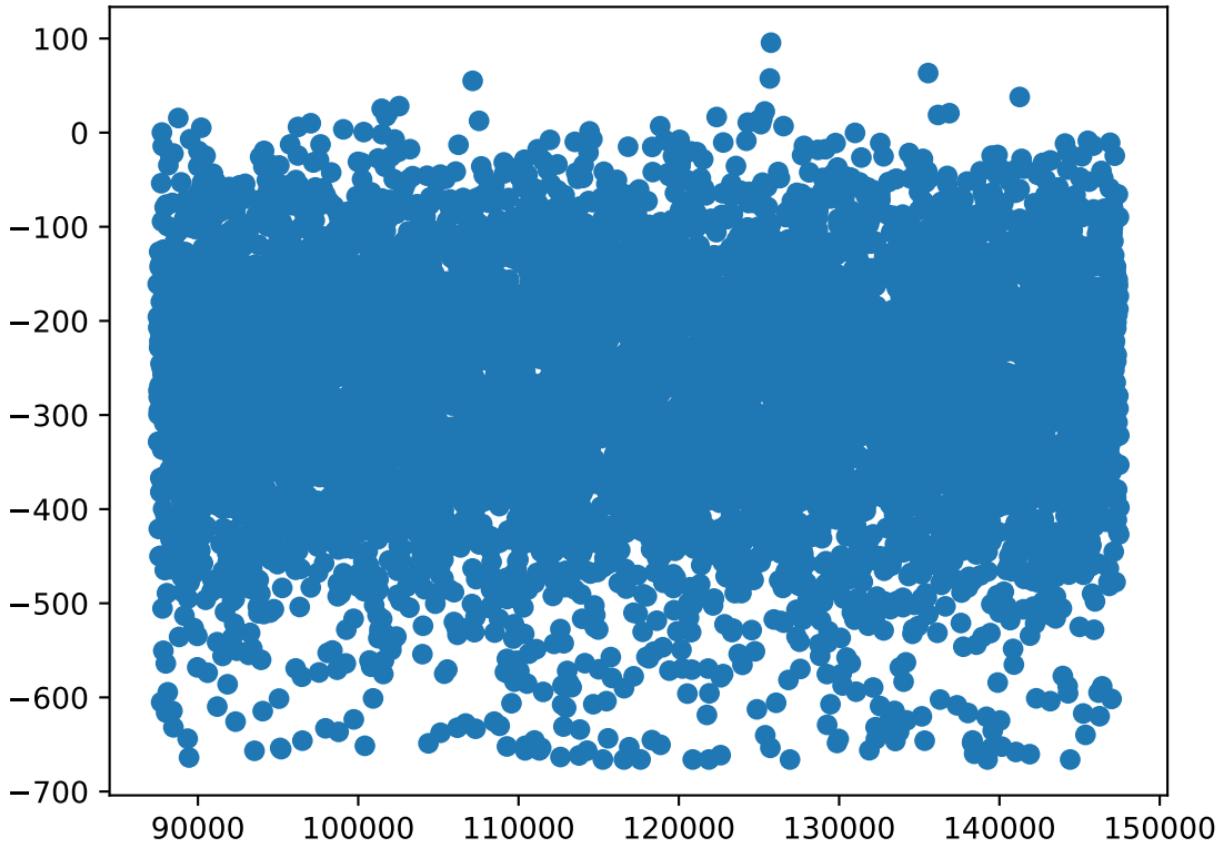
log obj func Surface_Dissociation_vdW/Combined;VacantSite/alpha



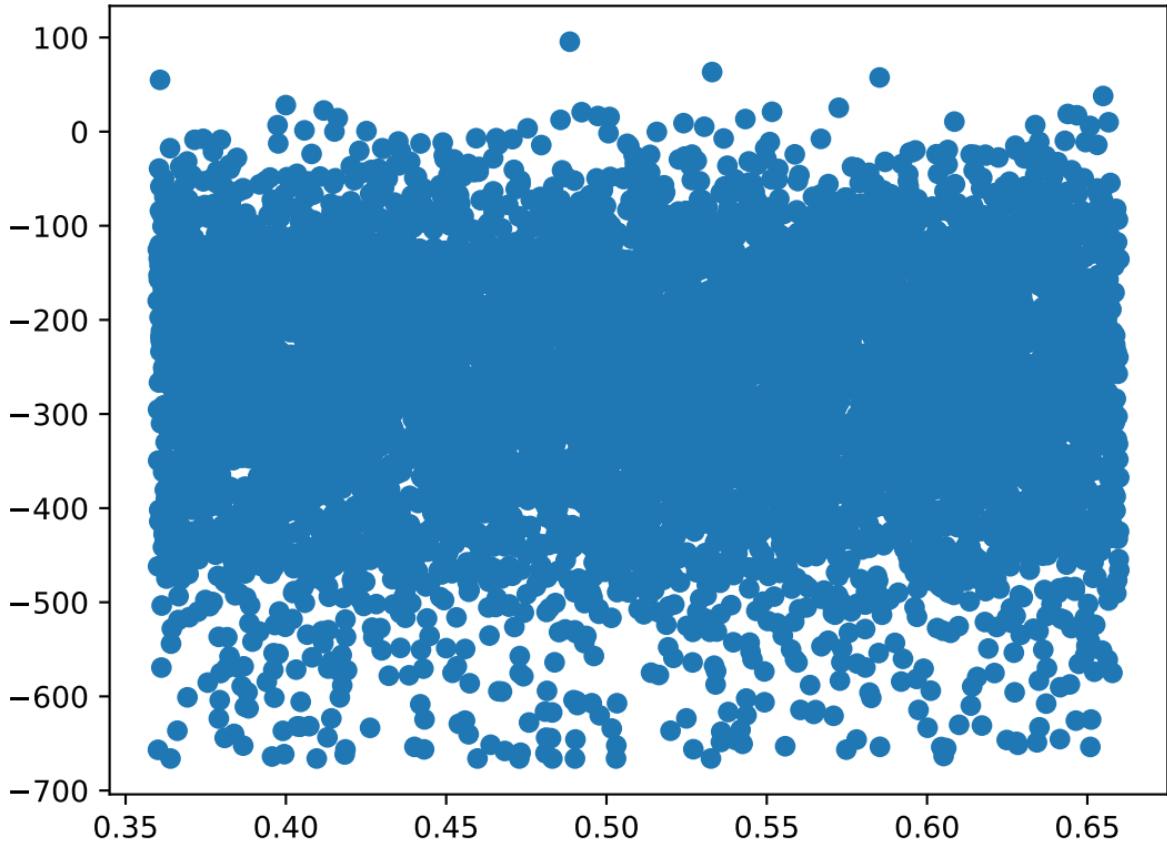
log obj func Surface_Dissociation_vdW/Combined;VacantSite/A



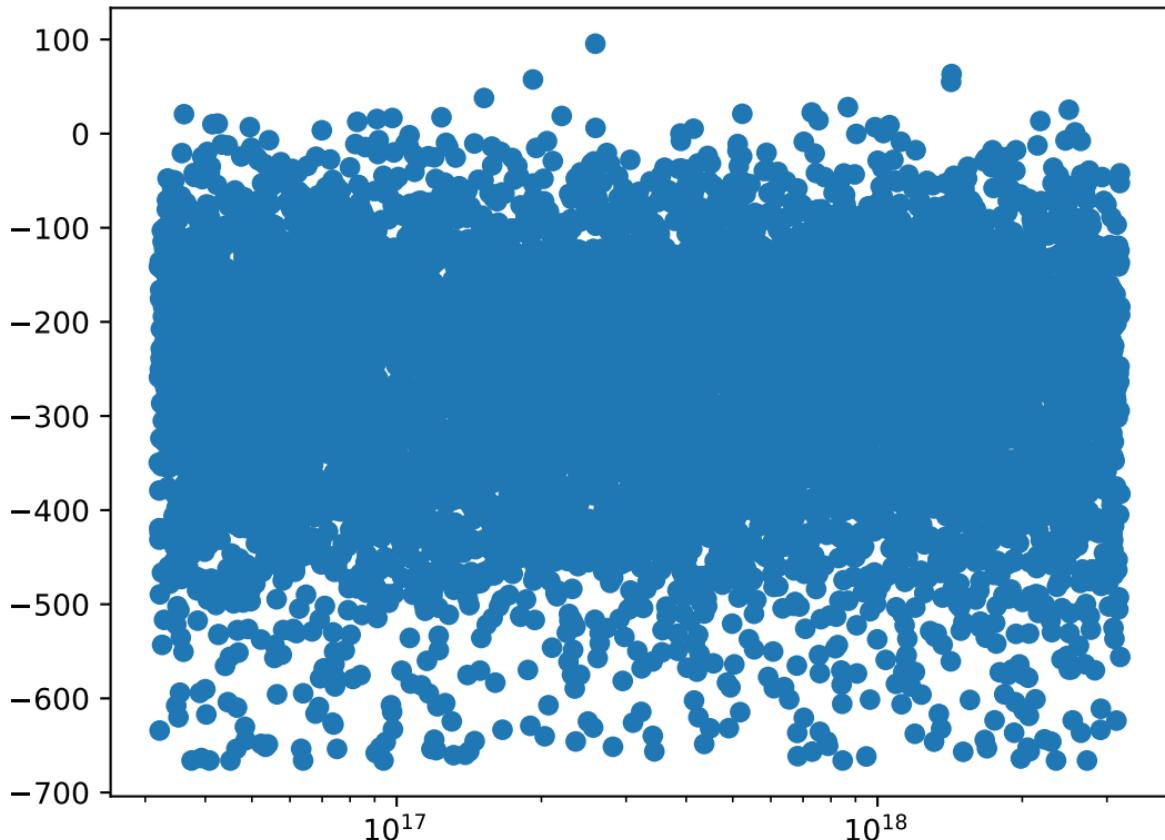
log obj func Surface_Dissociation_vdW/Combined;VacantSite/E0



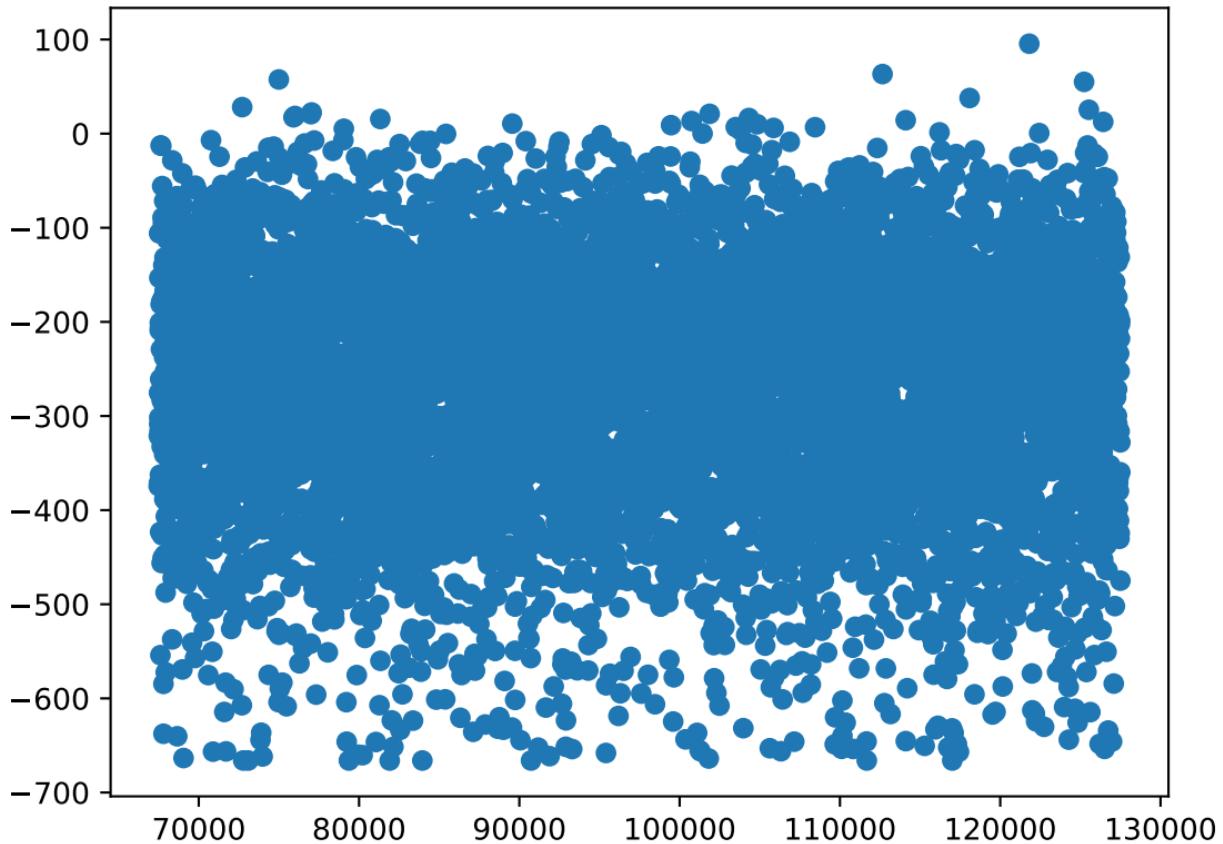
log obj func Surface_Dissociation_vdW/H2O;VacantSite/alpha



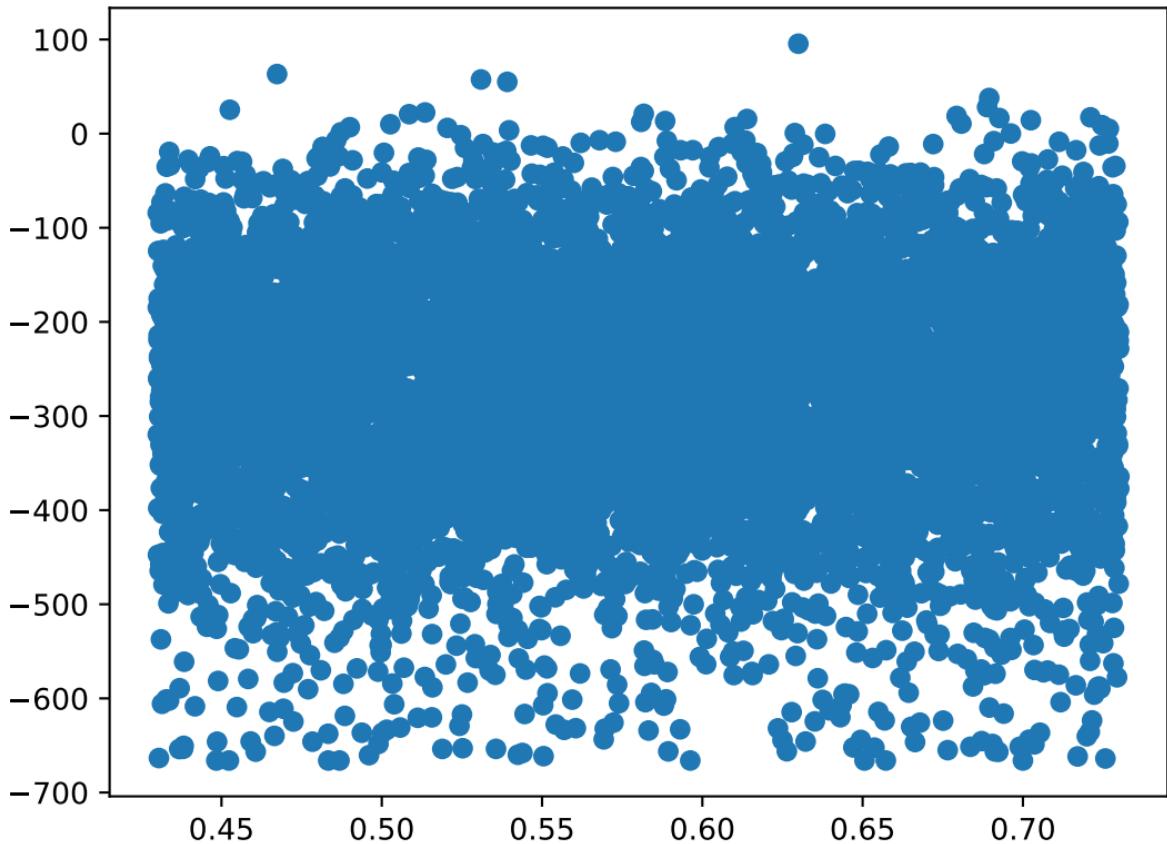
log obj func Surface_Dissociation_vdW/H2O;VacantSite/A



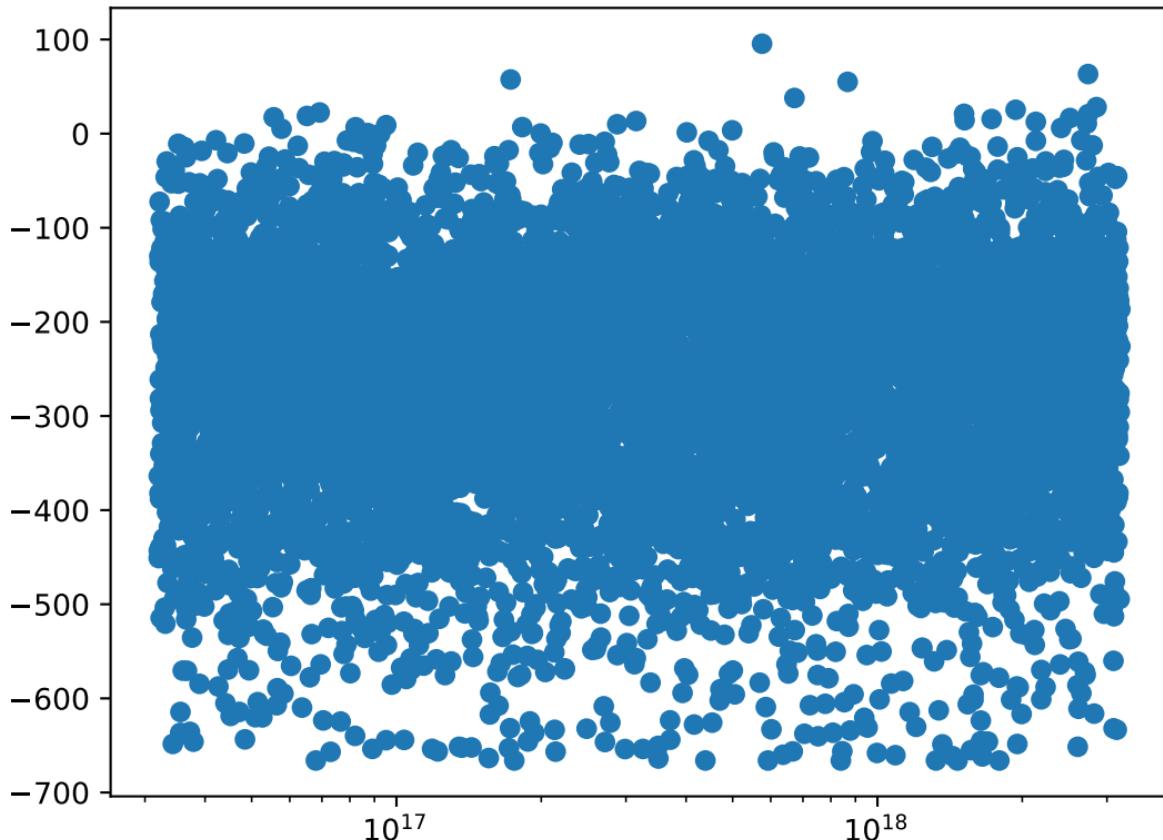
log obj func Surface_Dissociation_vdW/H2O;VacantSite/E0



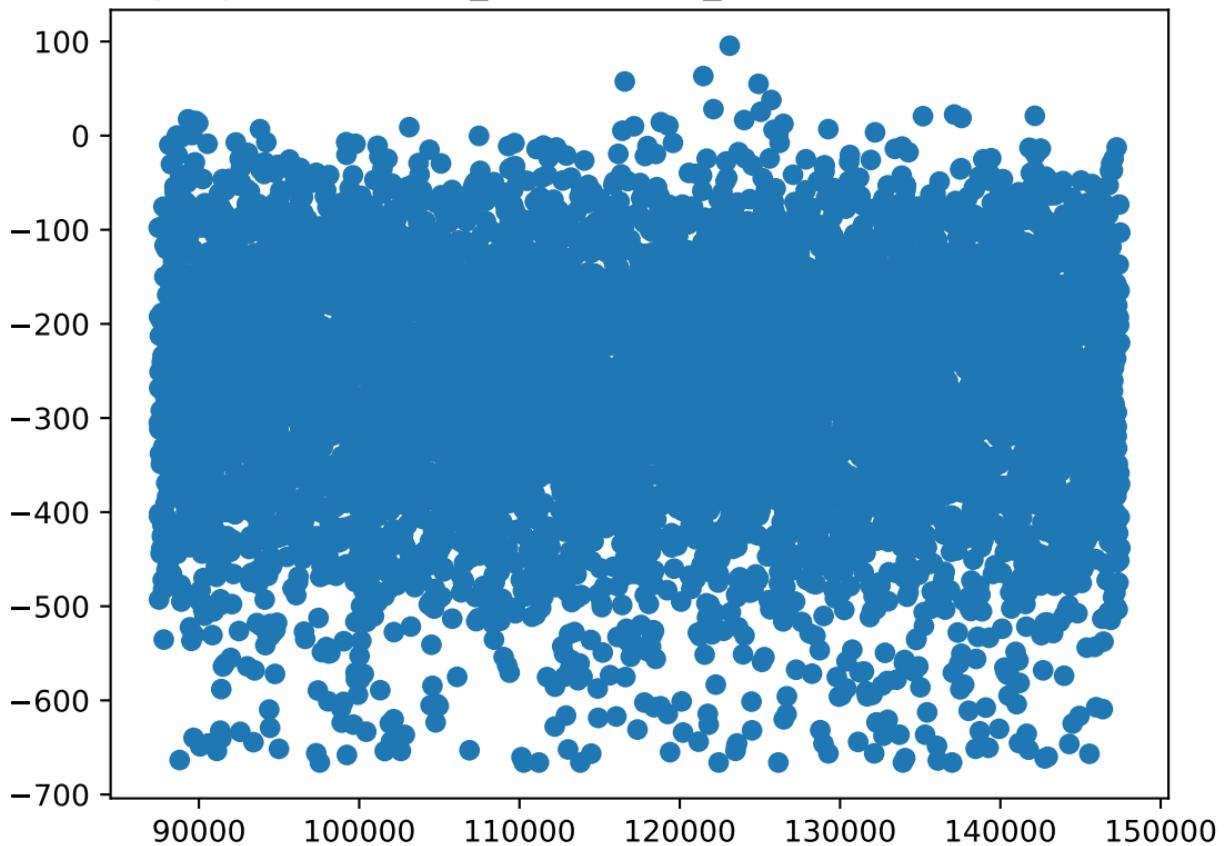
log obj func Surface_Dissociation_vdW/C-OH;VacantSite/alpha



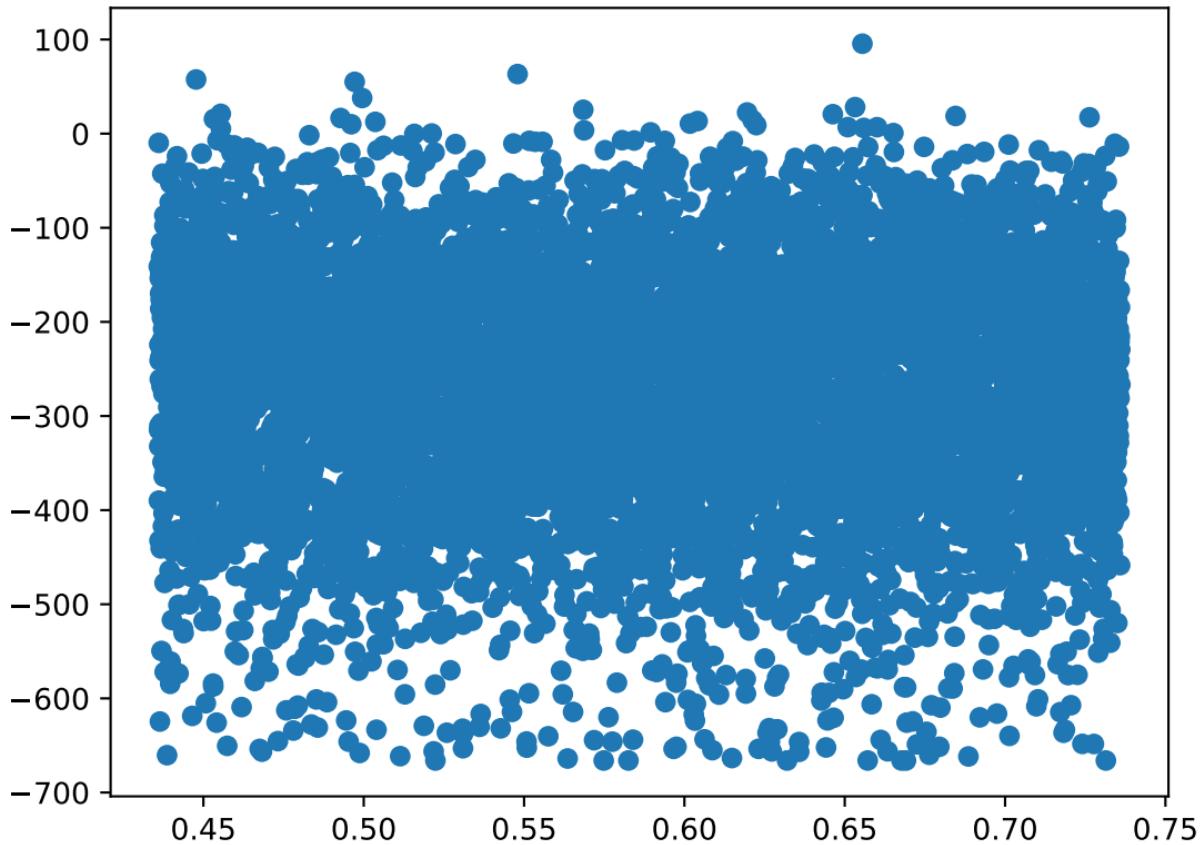
log obj func Surface_Dissociation_vdW/C-OH;VacantSite/A



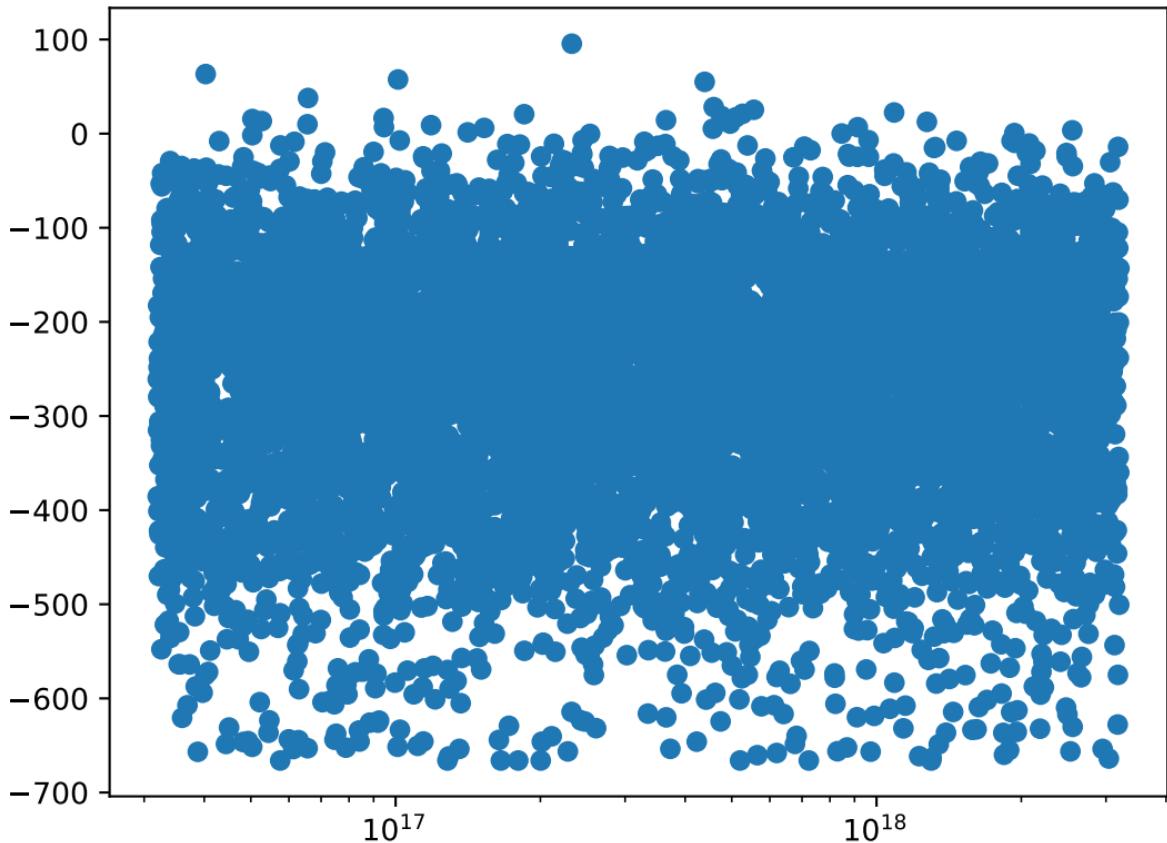
log obj func Surface_Dissociation_vdW/C-OH;VacantSite/E0



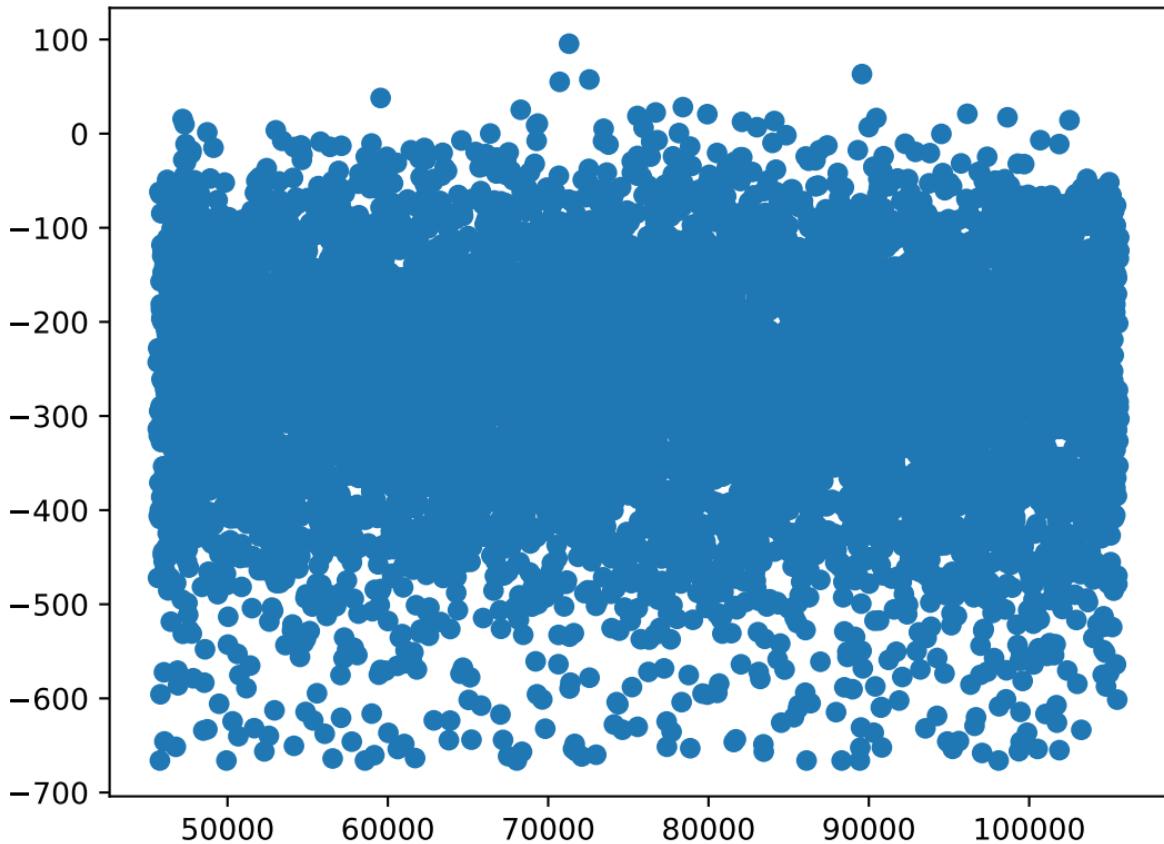
log obj func Surface_Dissociation_vdW/C-H;VacantSite/alpha



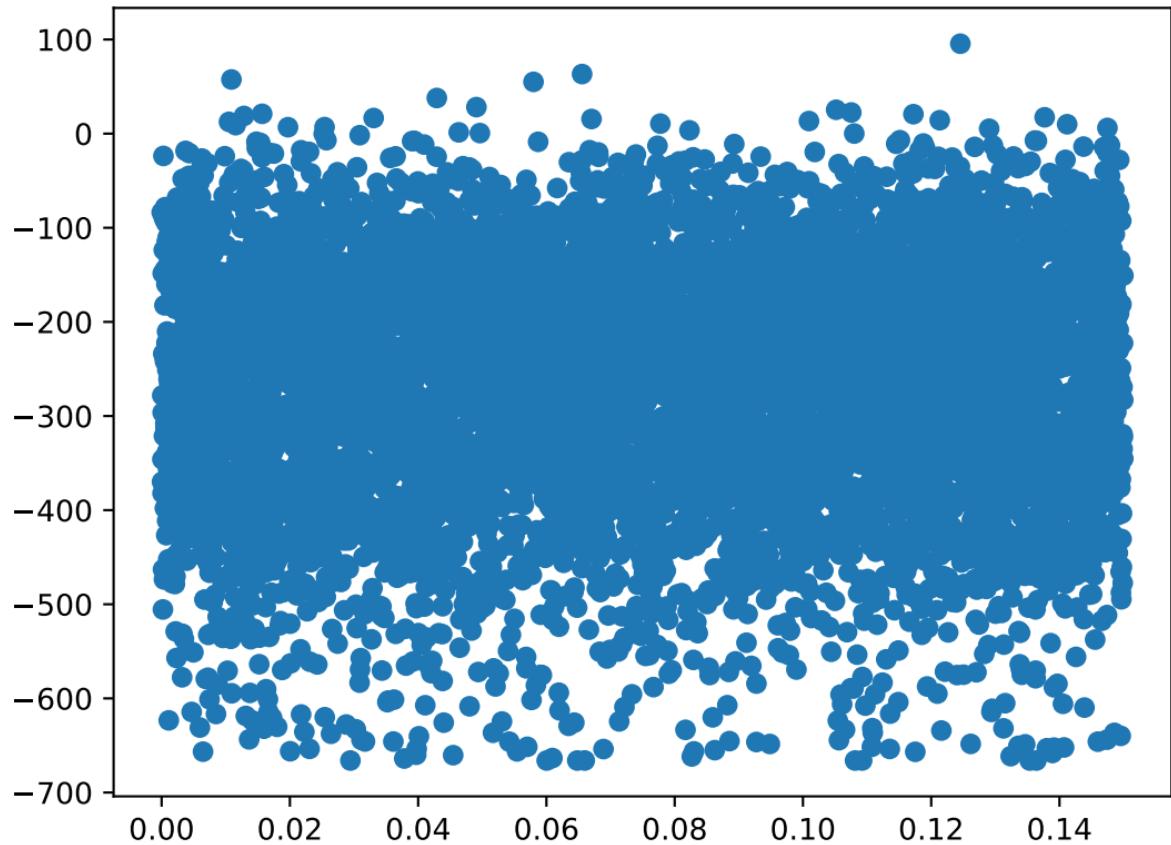
log obj func Surface_Dissociation_vdW/C-H;VacantSite/A



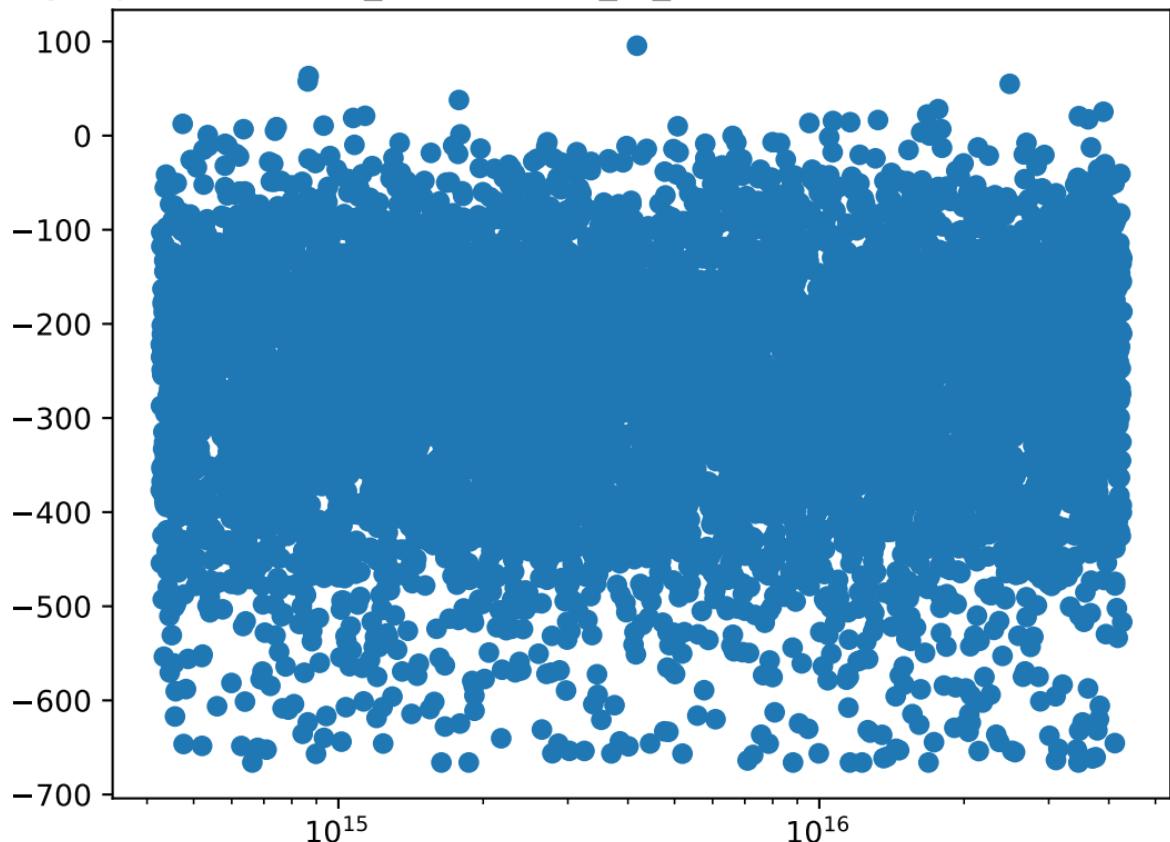
log obj func Surface_Dissociation_vdW/C-H;VacantSite/E0



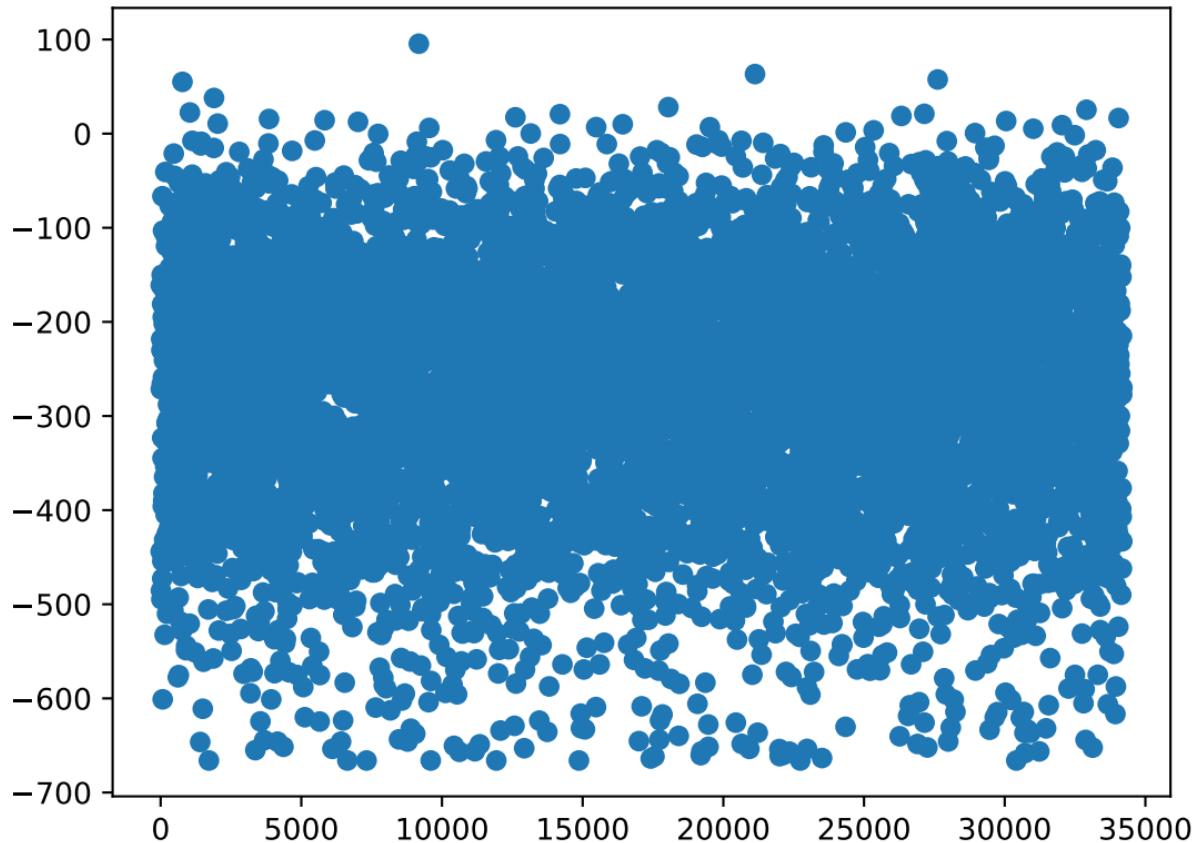
log obj func Surface_DoubleBond_to_Bidentate/Combined;VacantSite/alpha



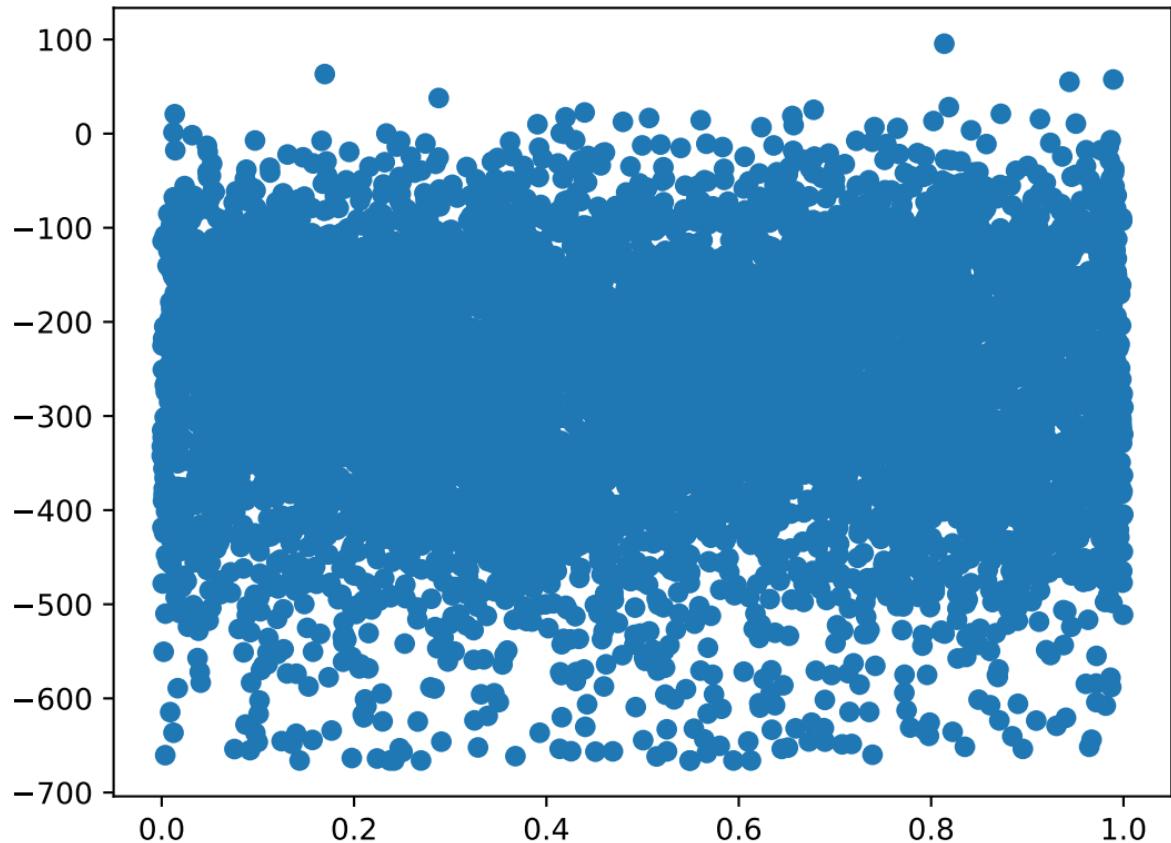
log obj func Surface_DoubleBond_to_Bidentate/Combined;VacantSite/A



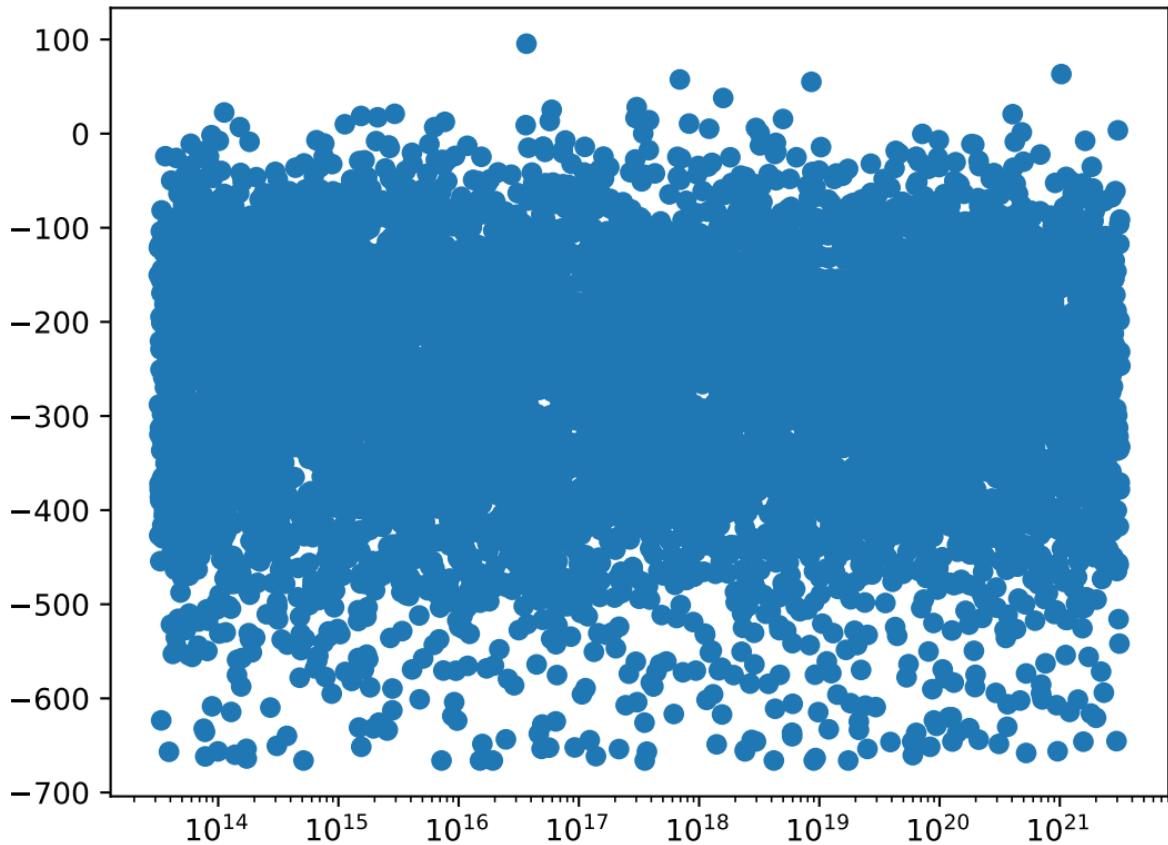
log obj func Surface_DoubleBond_to_Bidentate/Combined;VacantSite/E0



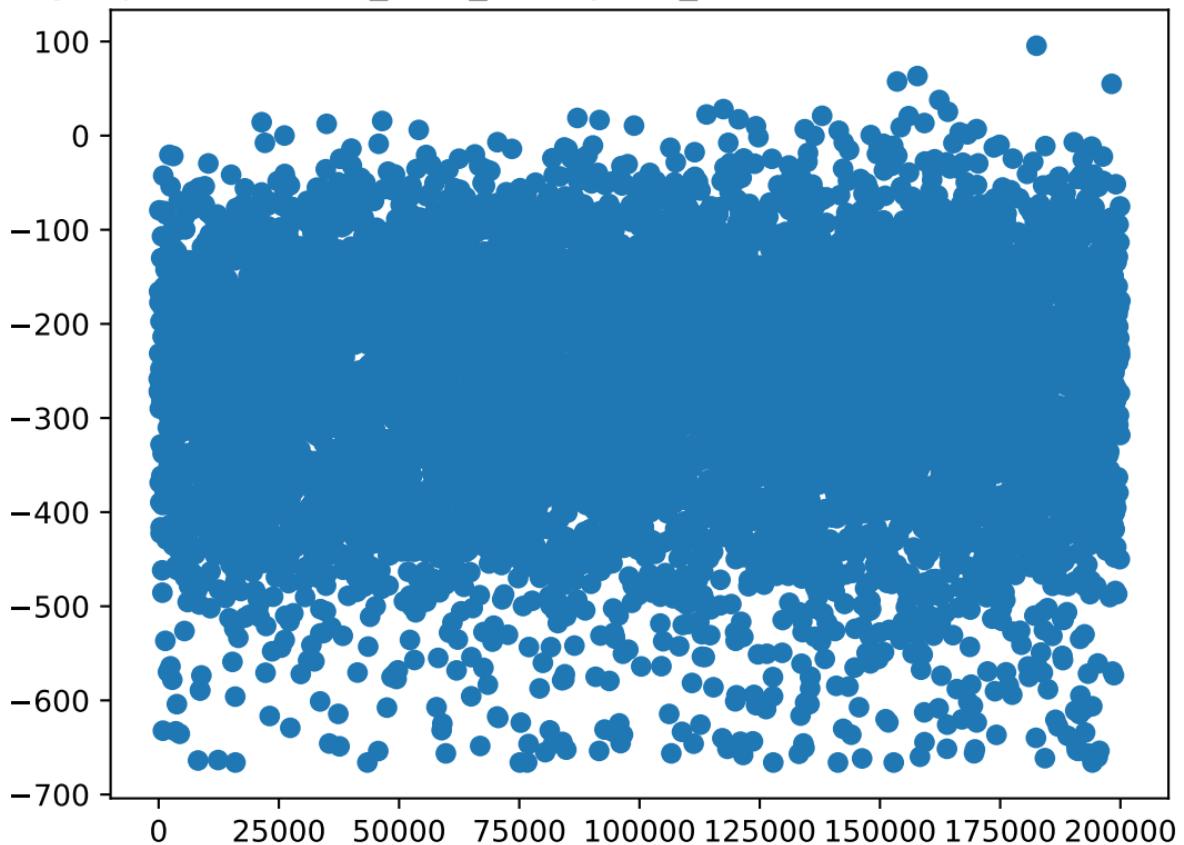
log obj func Surface_Dual_Adsorption_vdW/Adsorbate1;Adsorbate2/alpha



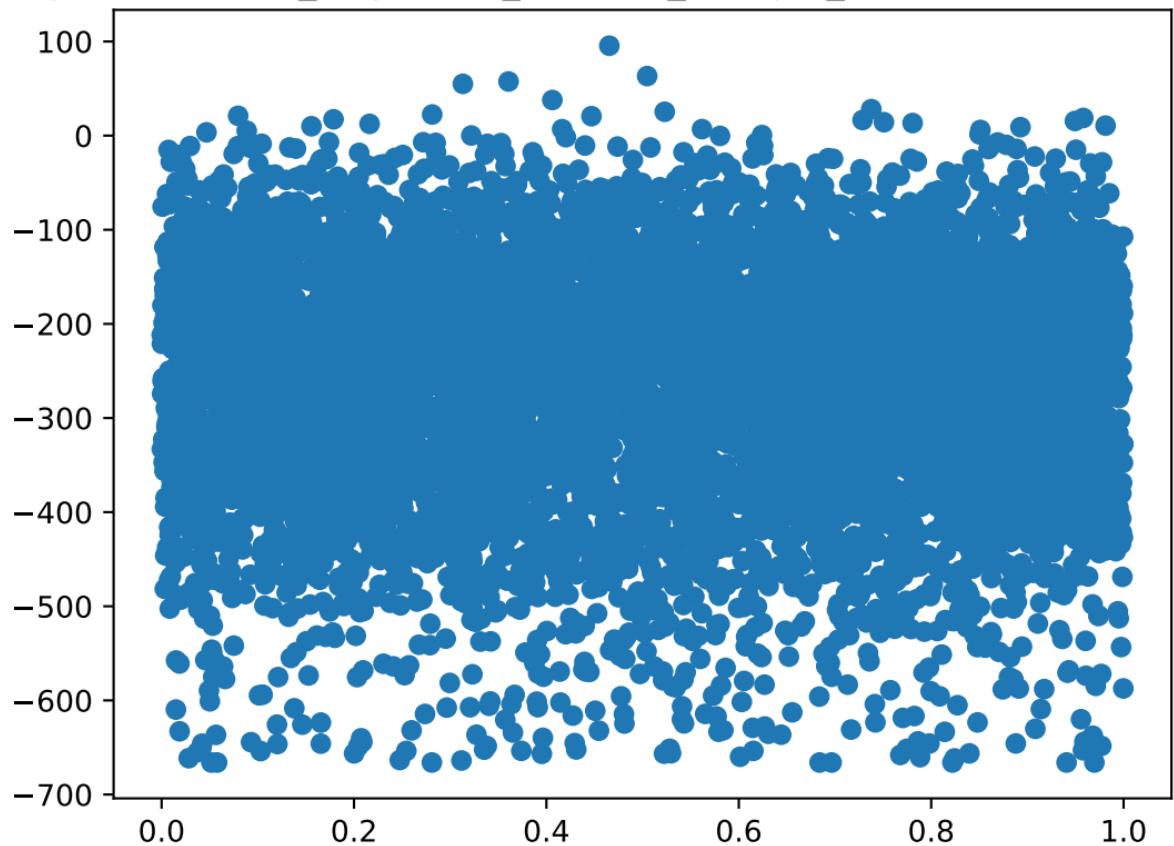
log obj func Surface_Dual_Adsorption_vdW/Adsorbate1;Adsorbate2/A



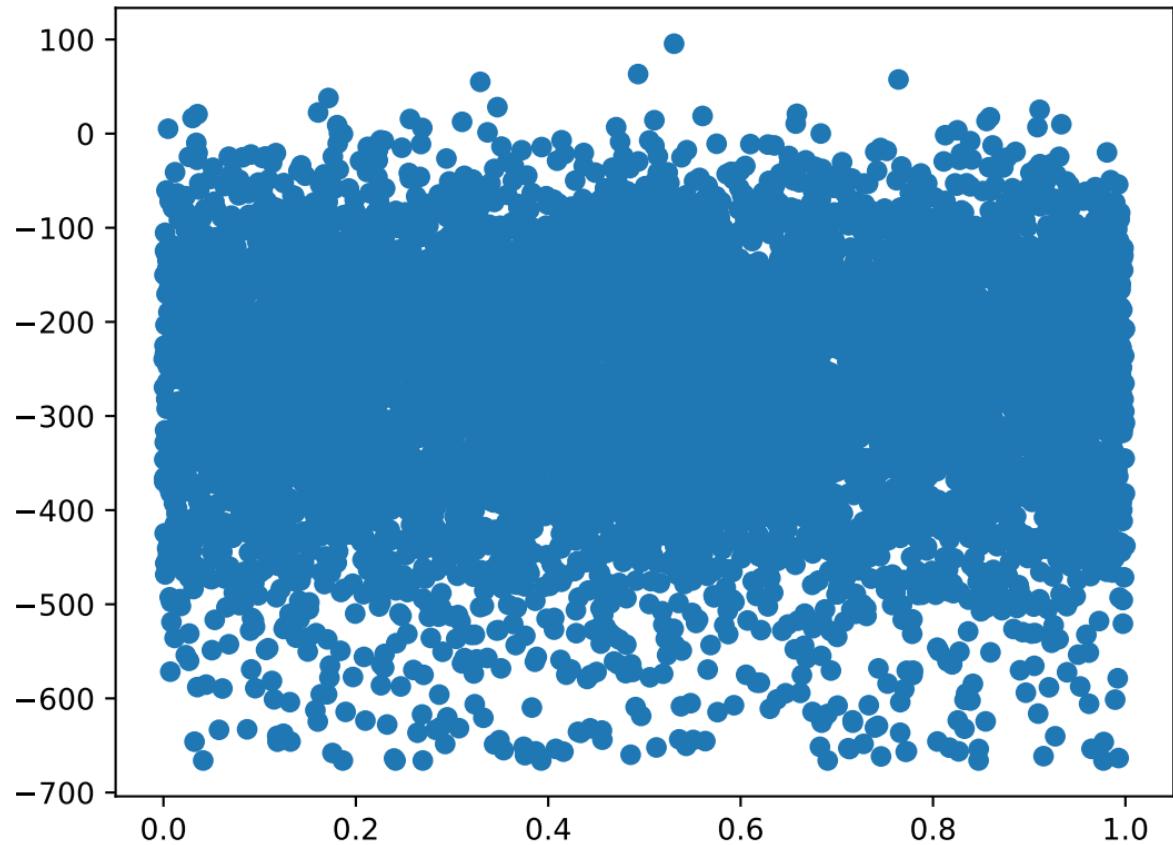
log obj func Surface_Dual_Adsorption_vdW/Adsorbate1;Adsorbate2/E0



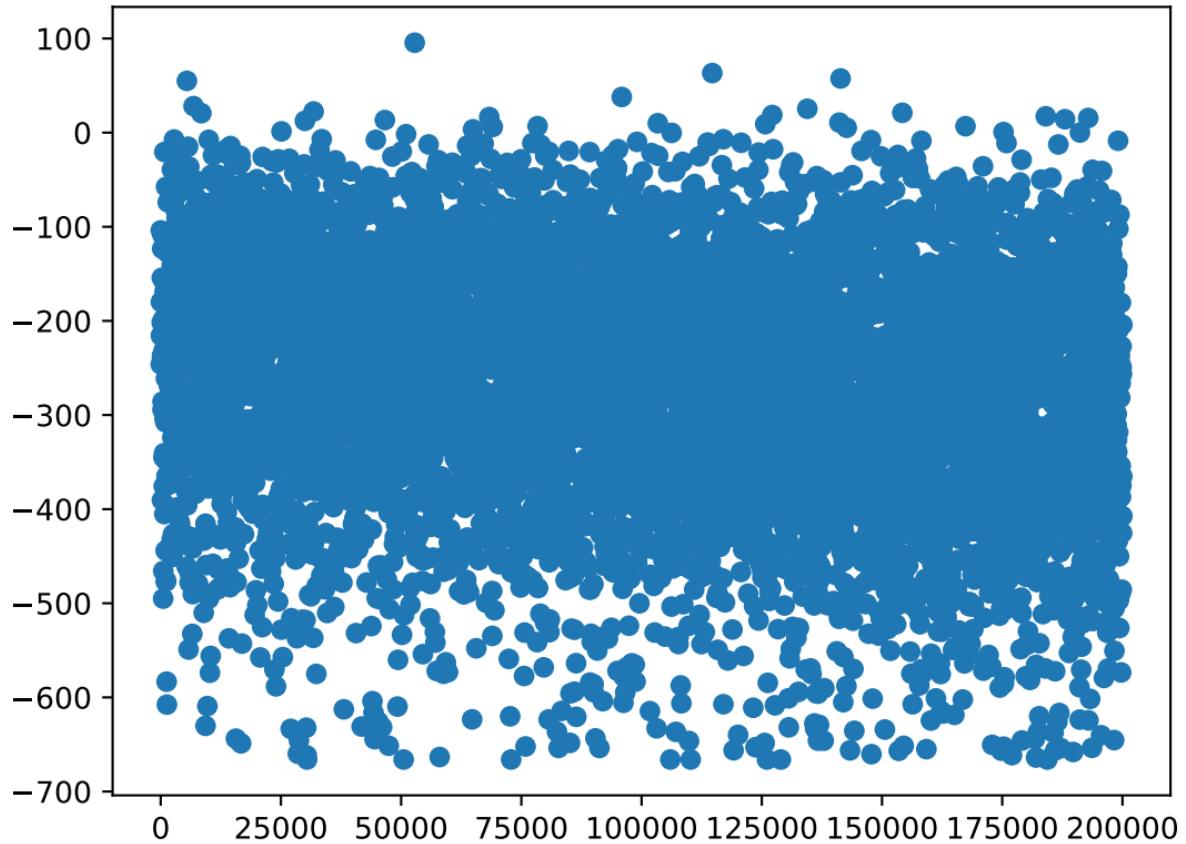
log obj func Surface_EleyRideal_Addition_Multiple_Bond/Adsorbate1;Gas/alpha



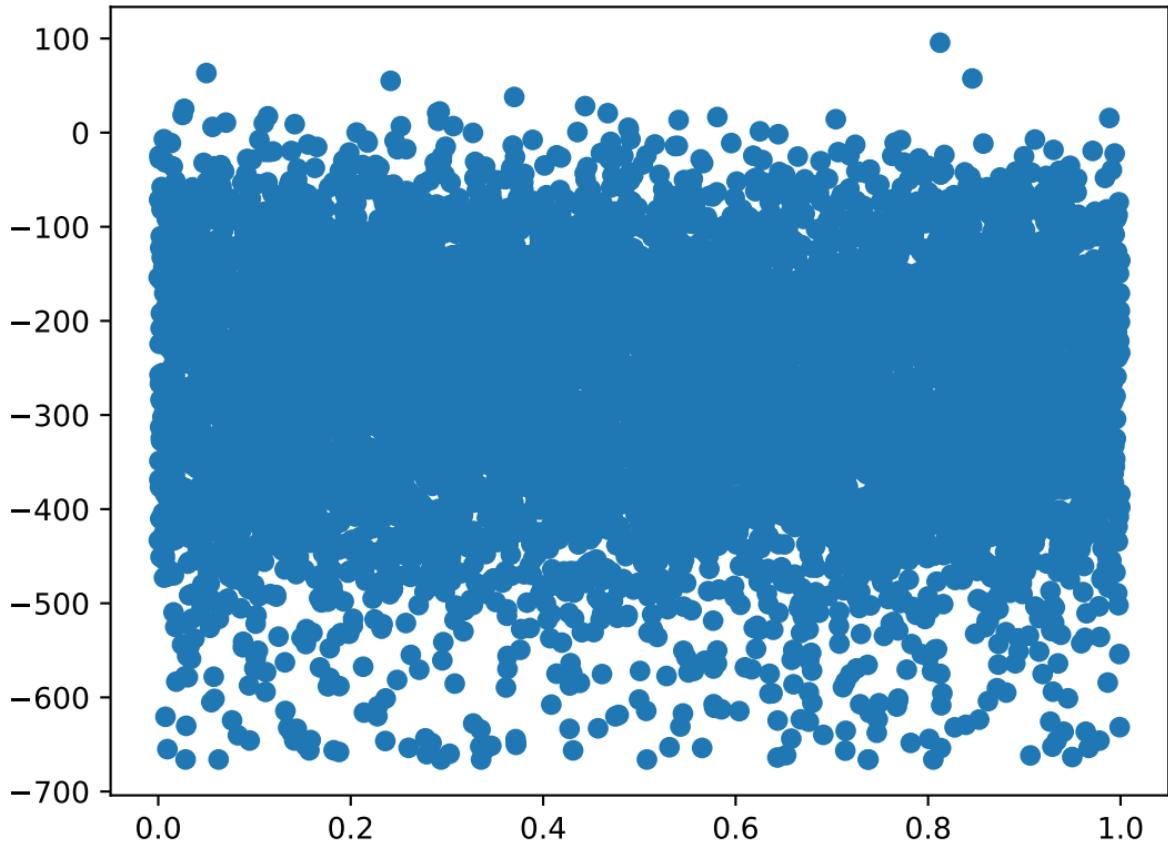
log obj func Surface_EleyRideal_Addition_Multiple_Bond/Adsorbate1;Gas/A



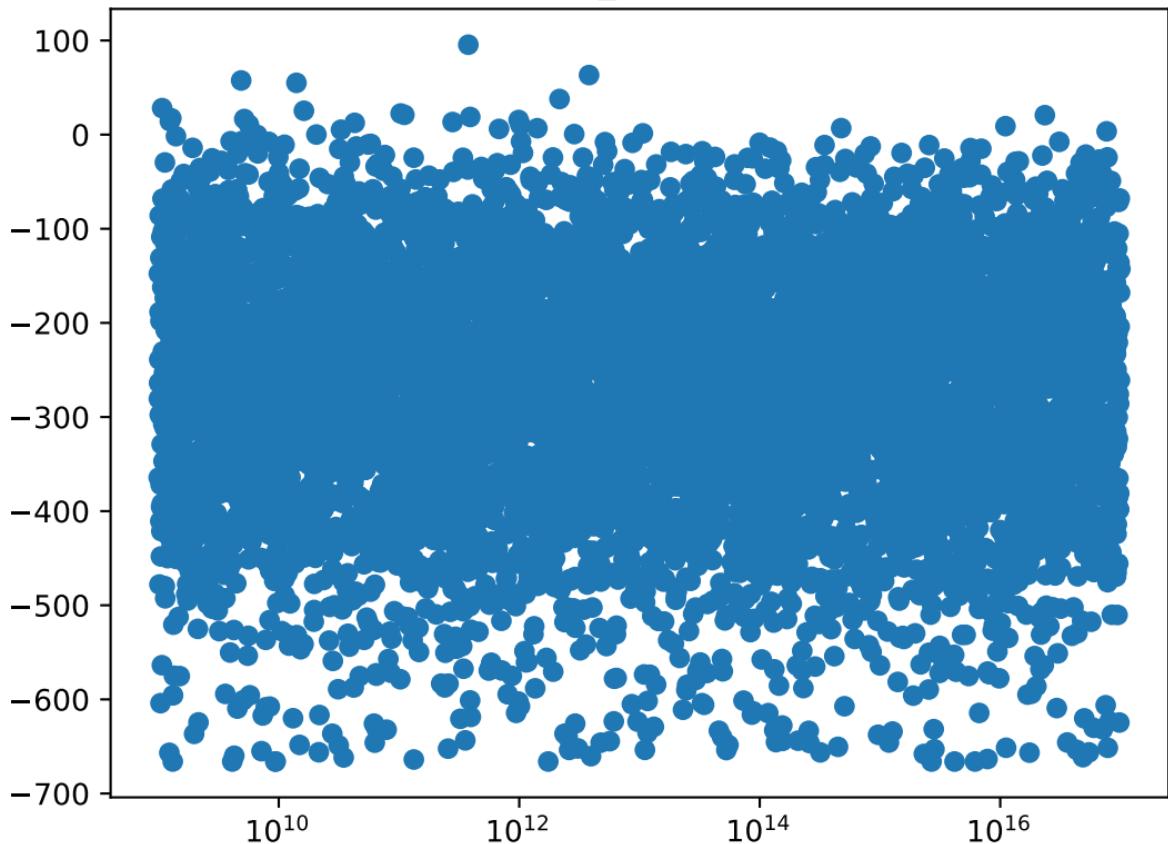
log obj func Surface_EleyRideal_Addition_Multiple_Bond/Adsorbate1;Gas/E0



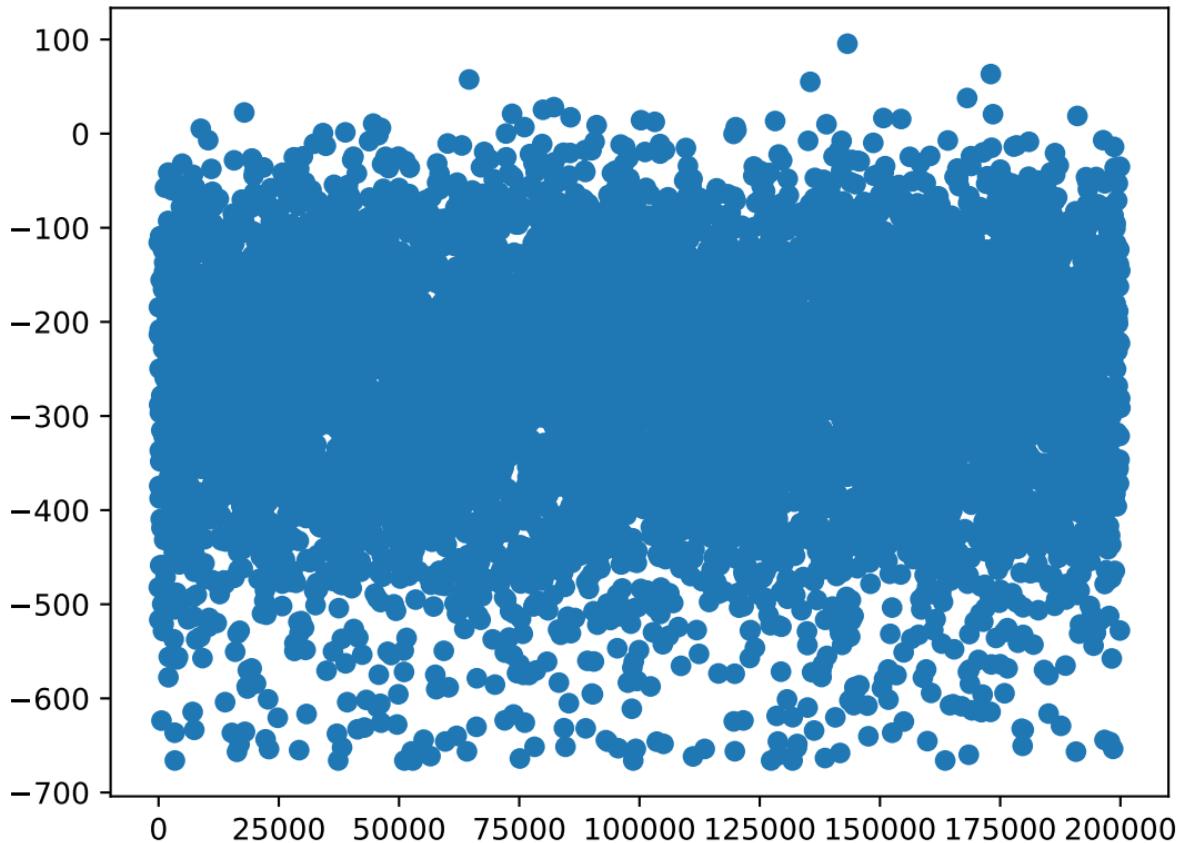
log obj func Surface_Migration/Adsorbate1/alpha



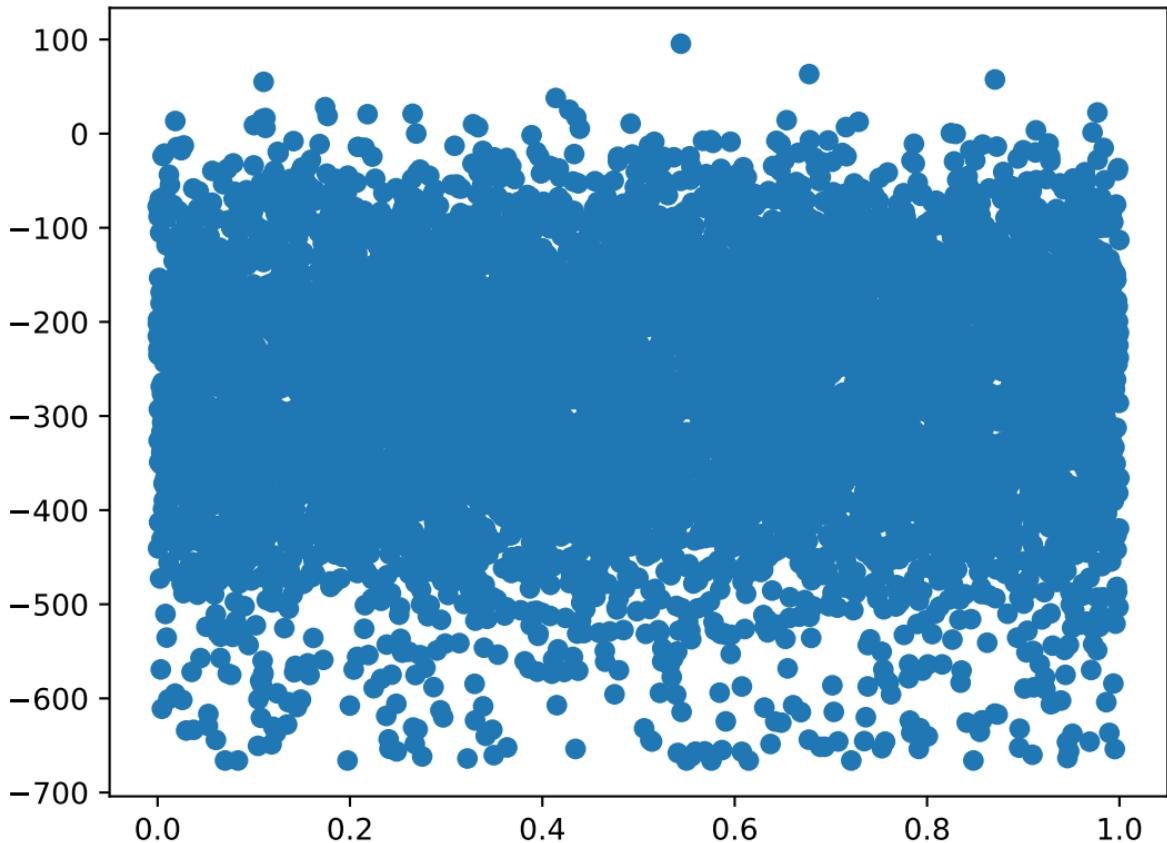
log obj func Surface_Migration/Adsorbate1/A



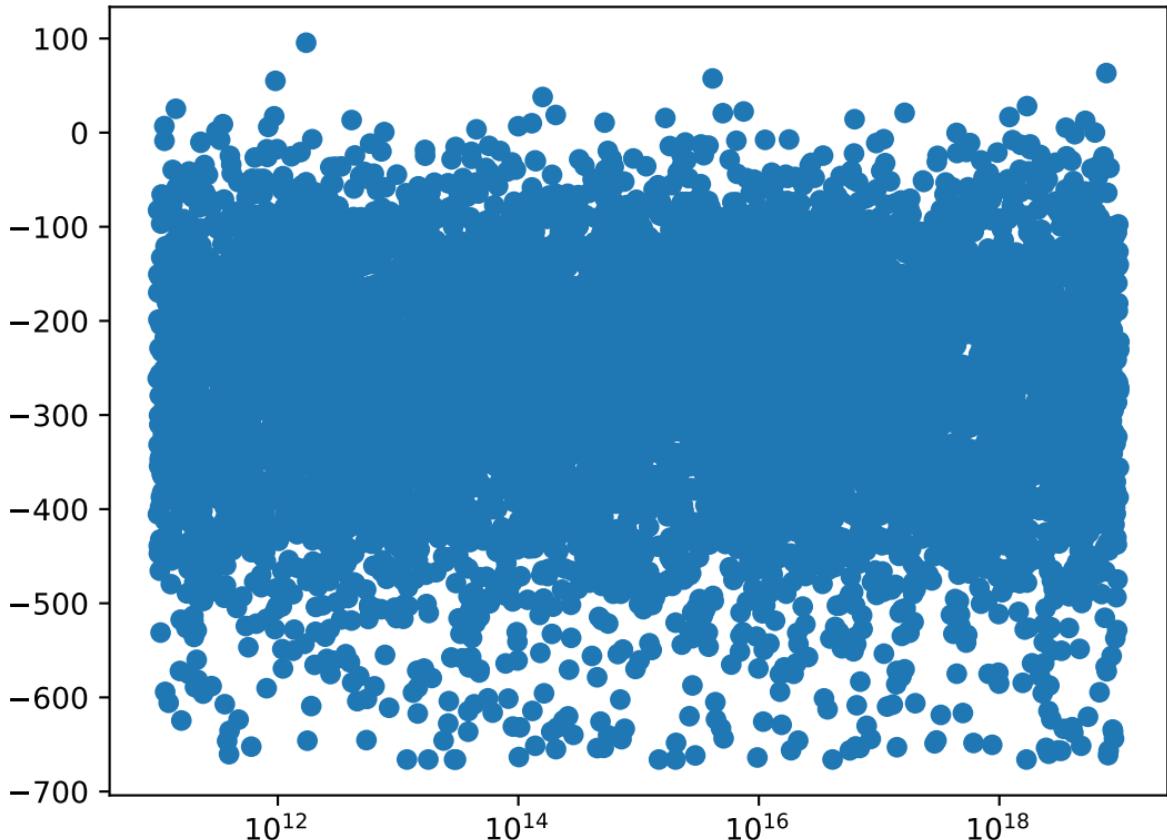
log obj func Surface_Migration/Adsorbate1/E0



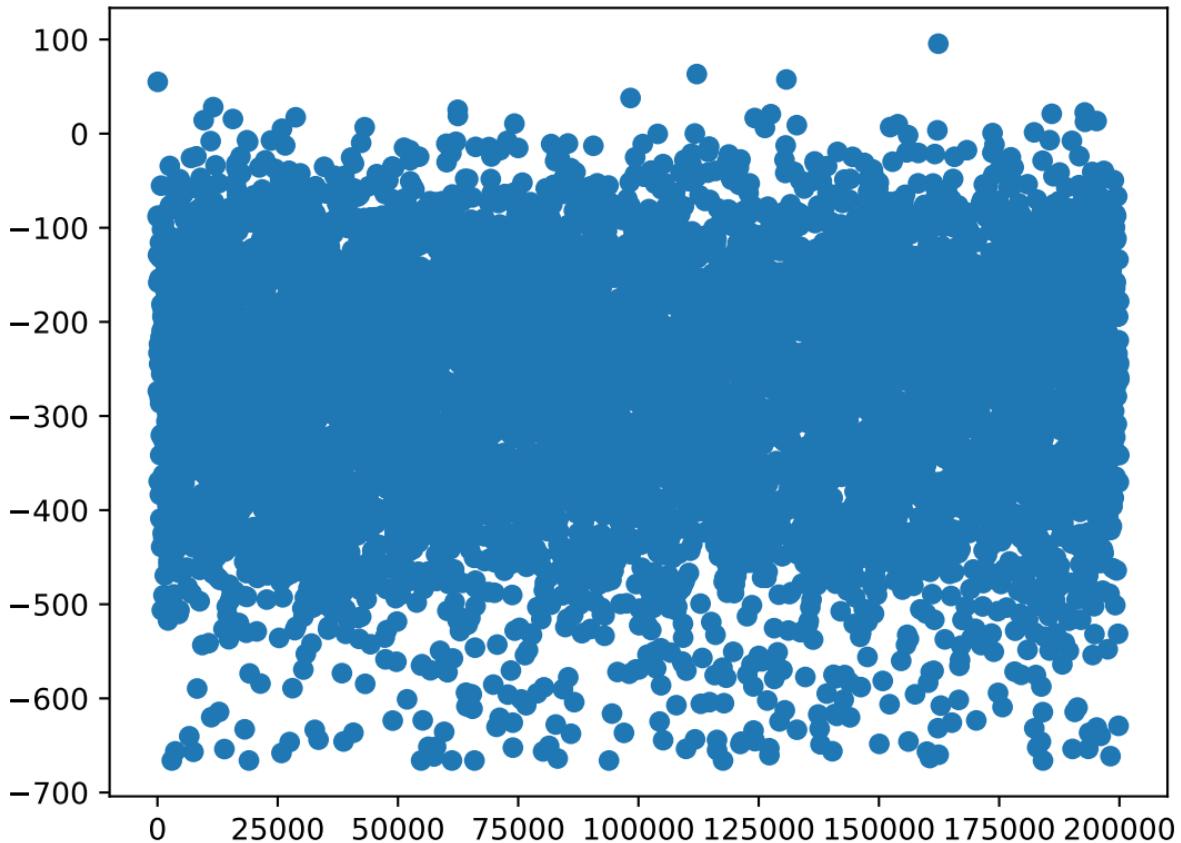
log obj func Surface_vdW_to_Bidentate/Combined;VacantSite/alpha



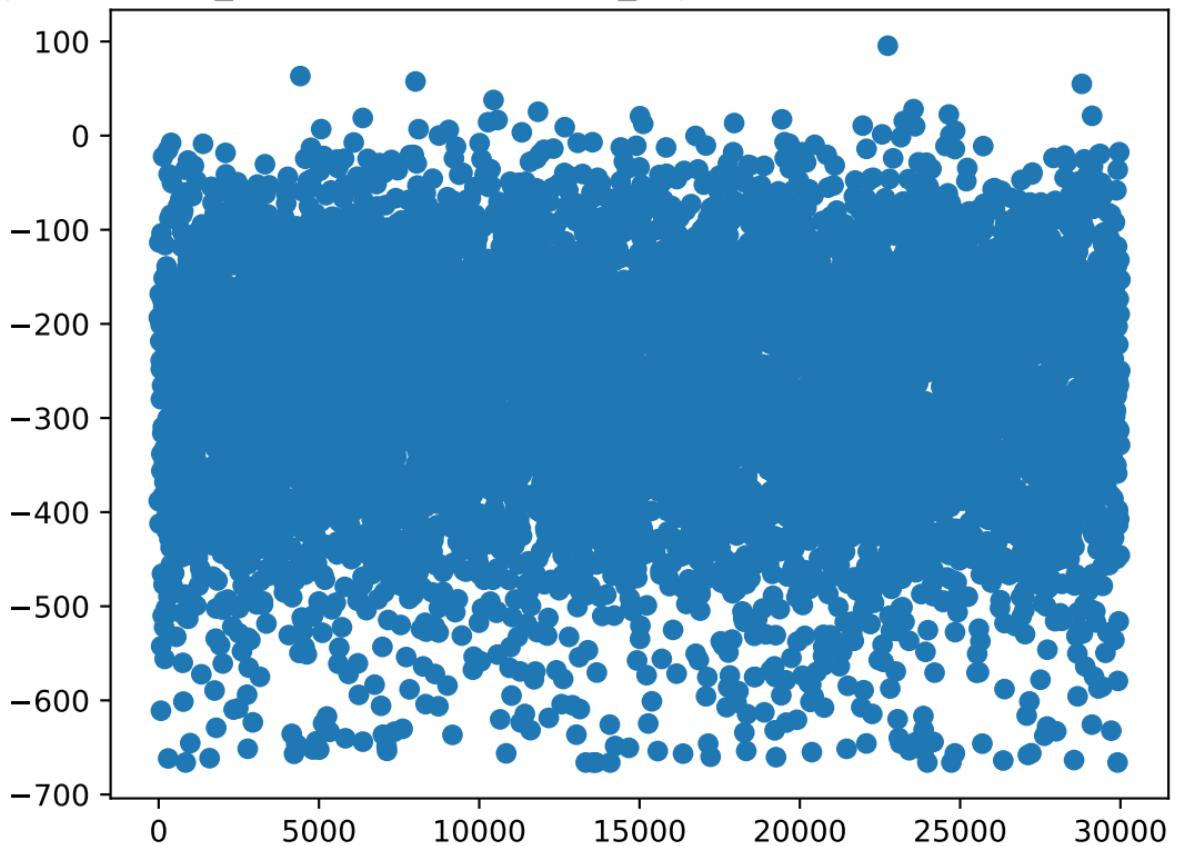
log obj func Surface_vdW_to_Bidentate/Combined;VacantSite/A



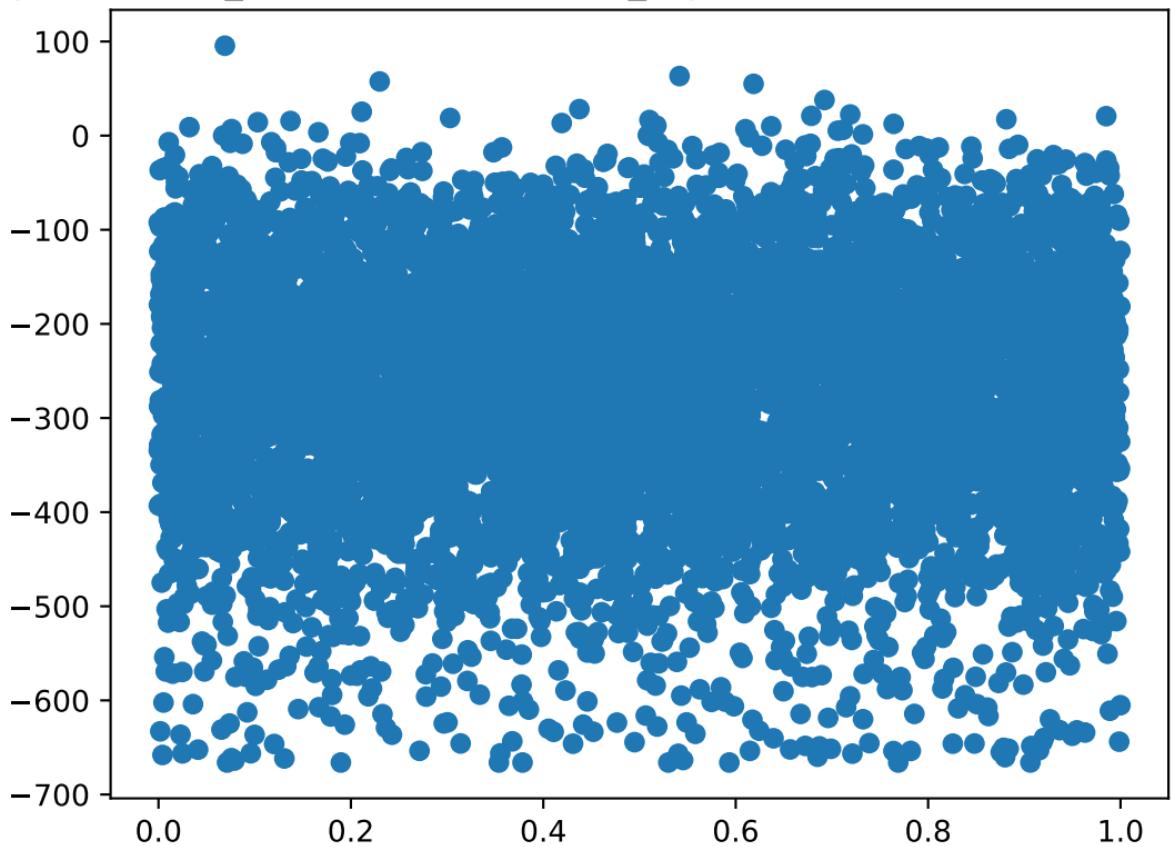
log obj func Surface_vdW_to_Bidentate/Combined;VacantSite/E0



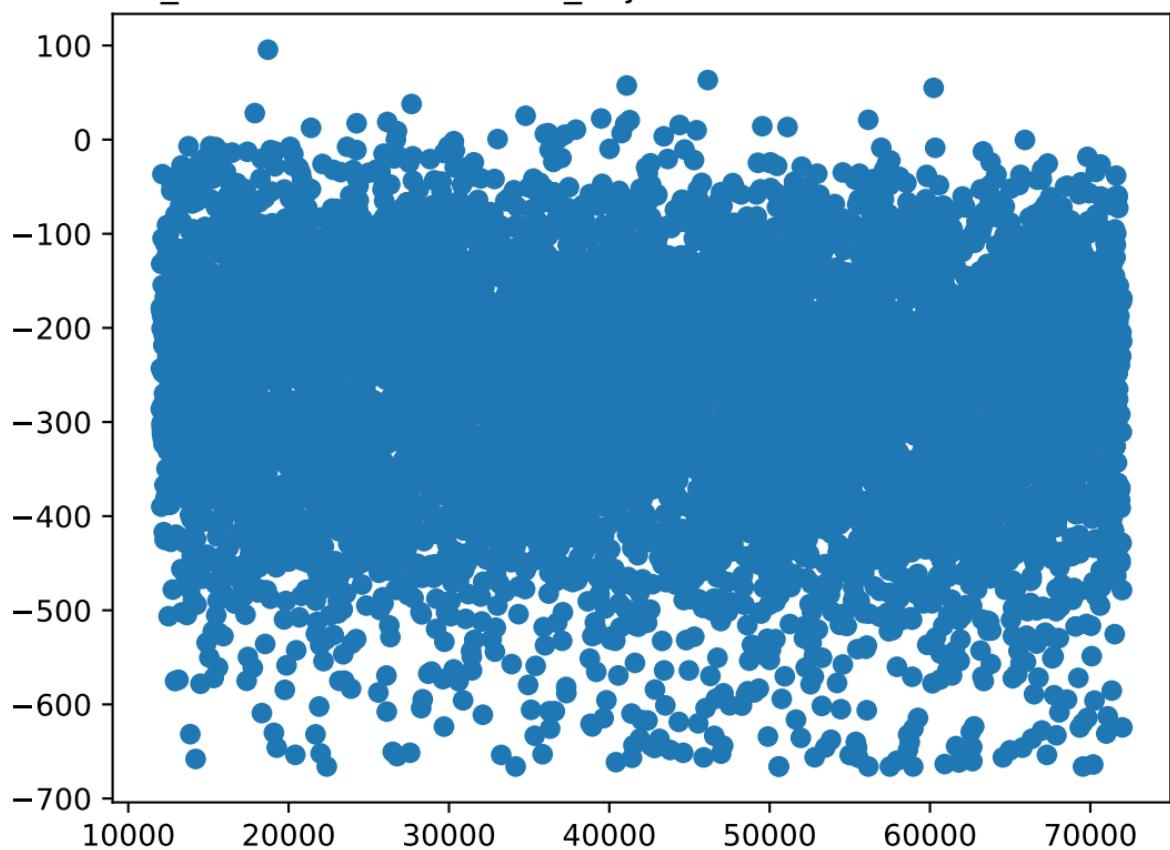
g obj func CPOX_Pt/Deutschmann2006_adjusted/1/H₂ + Pt + Pt <=> HX + H



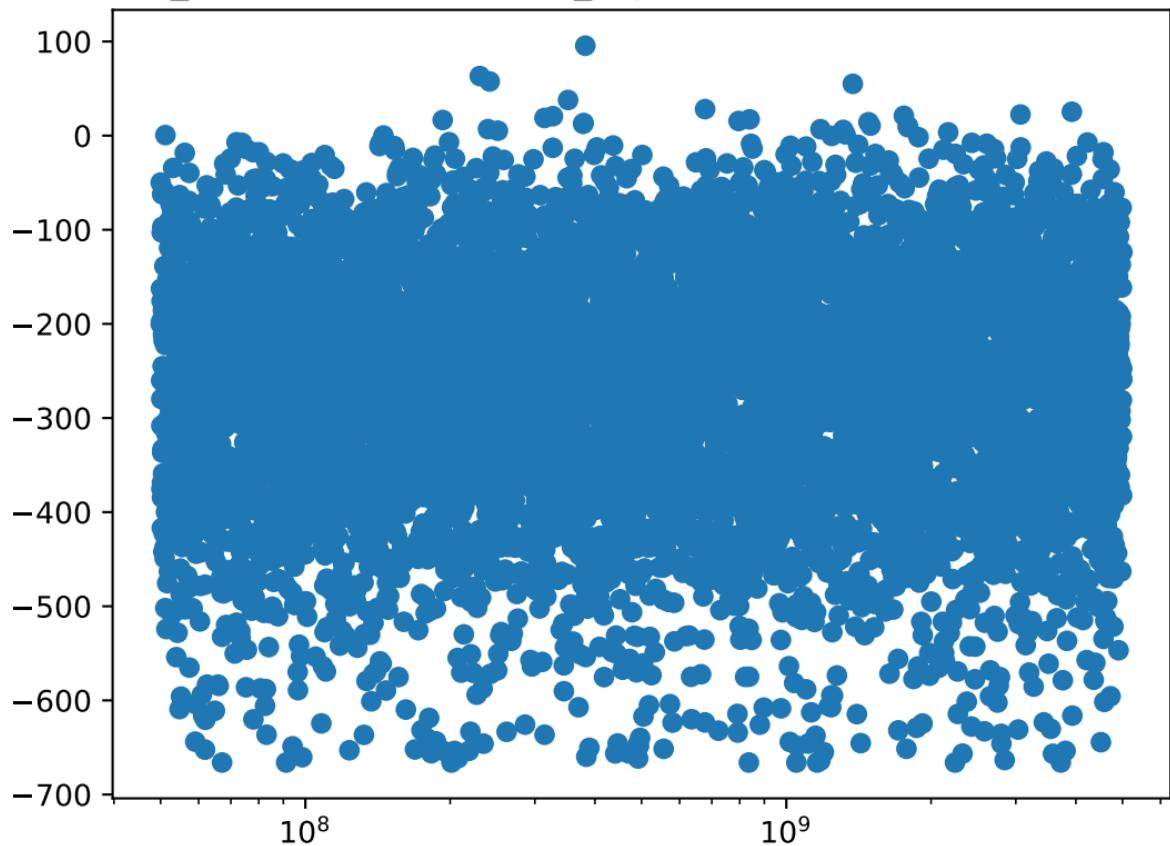
g obj func CPOX_Pt/Deutschmann2006_adjusted/1/H₂ + Pt + Pt <=> HX + H



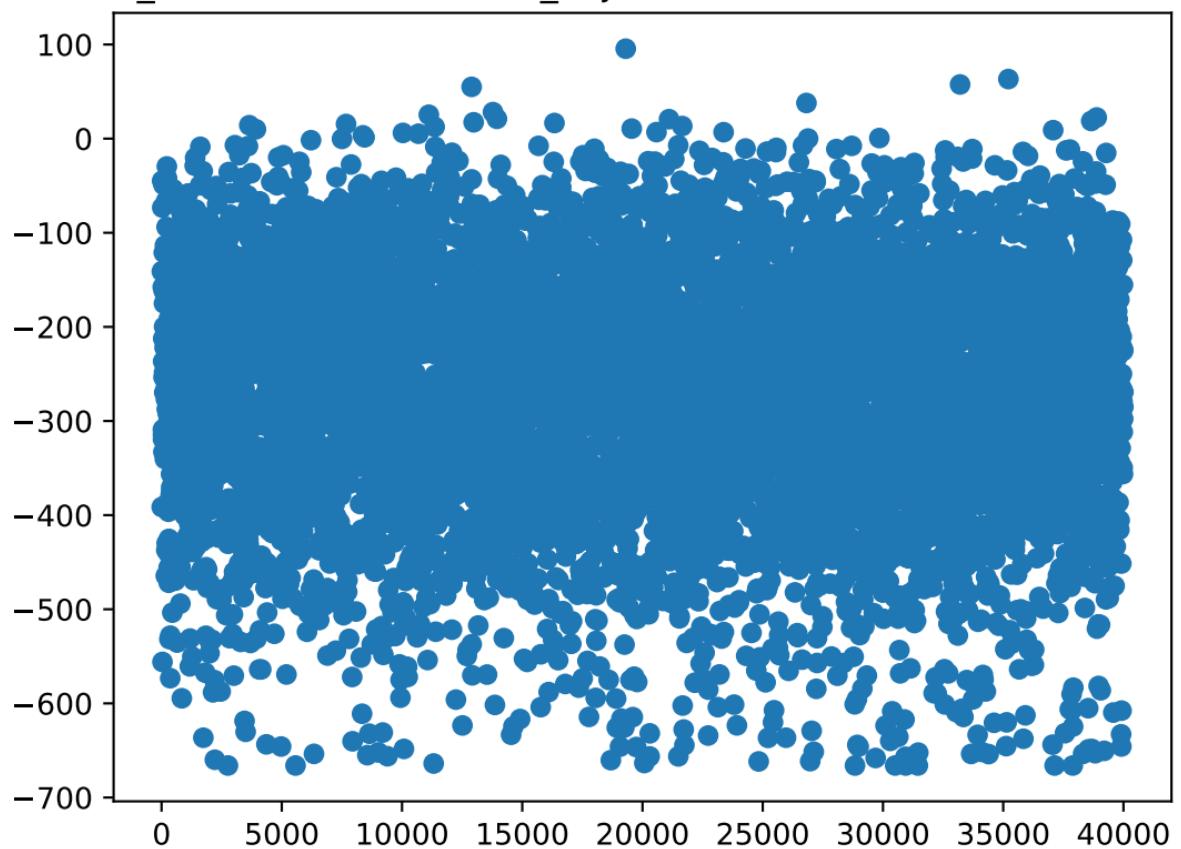
obj func CPOX_Pt/Deutschmann2006_adjusted/4/CH4 + OX + Pt <=> CH3X +



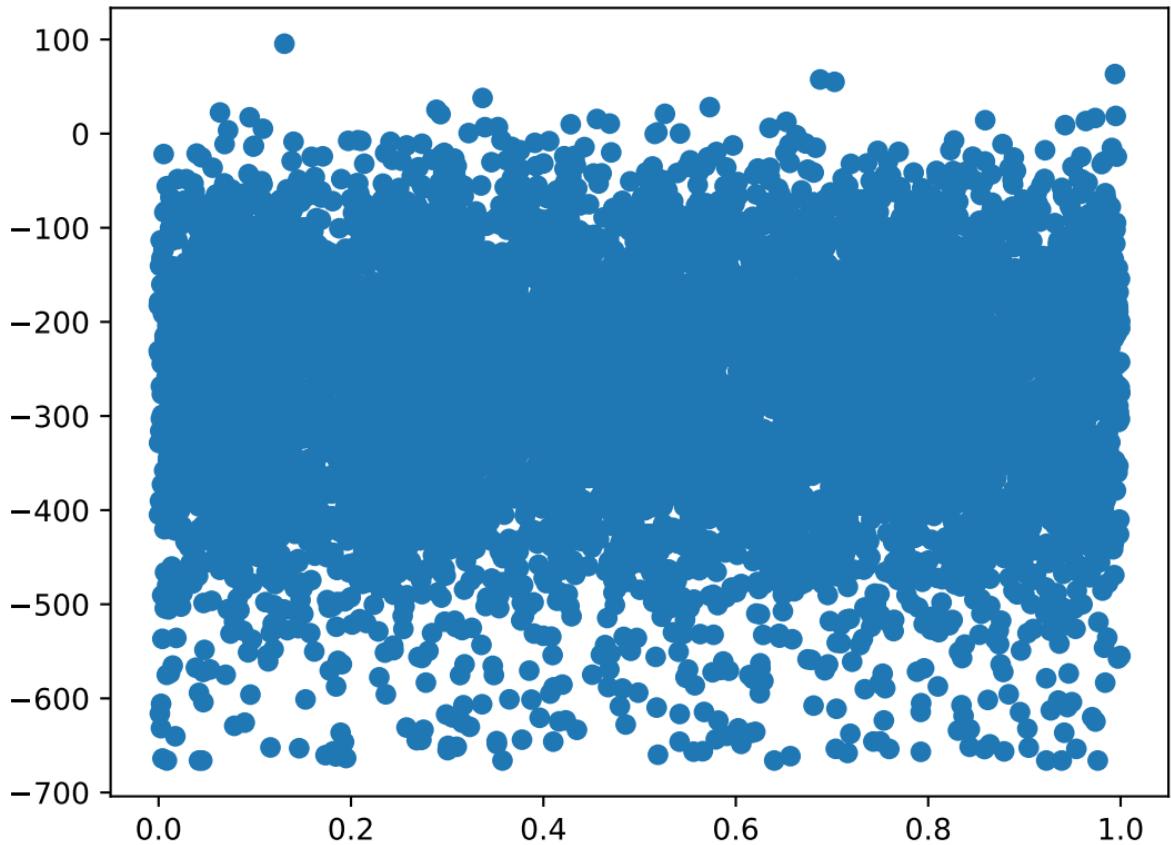
bj func CPOX_Pt/Deutschmann2006_adjusted/4/CH4 + OX + Pt <=> CH3X +



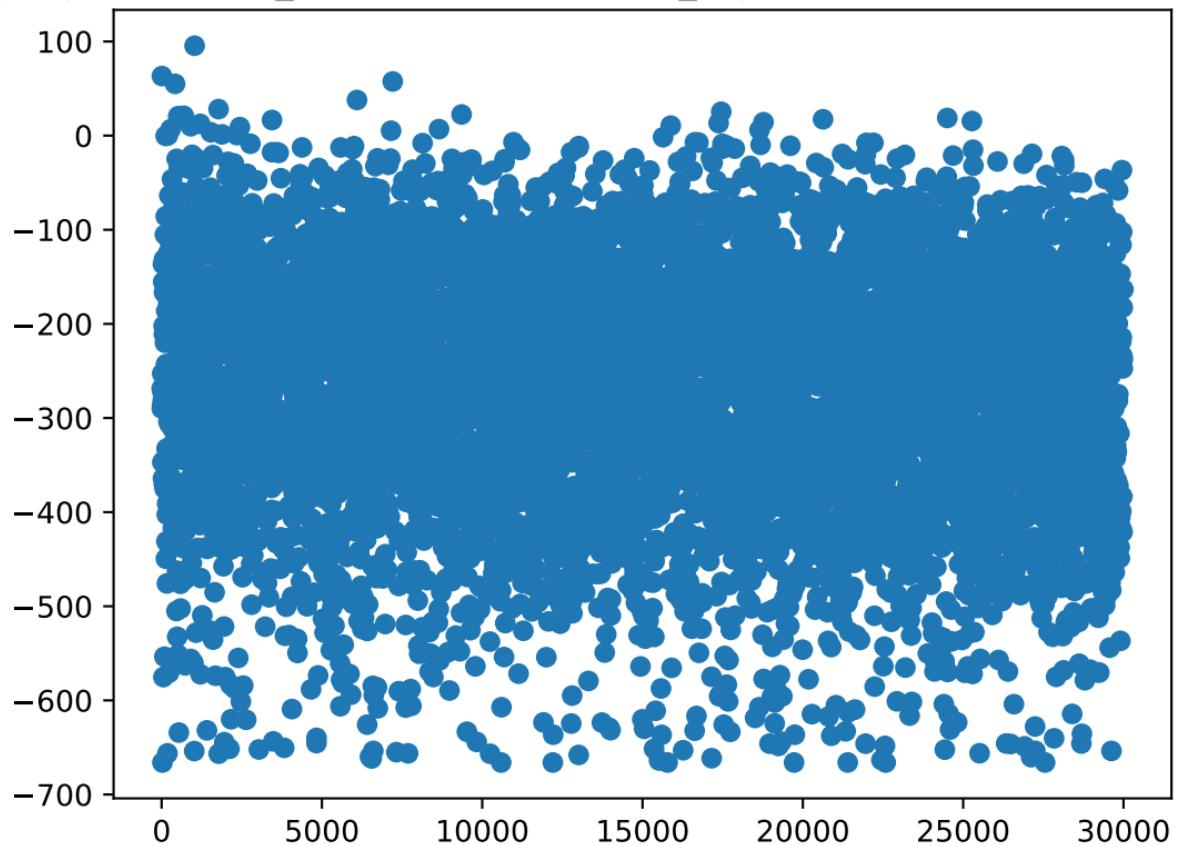
func CPOX_Pt/Deutschmann2006_adjusted/5/CH4 + HOX + Pt <=> CH3X +



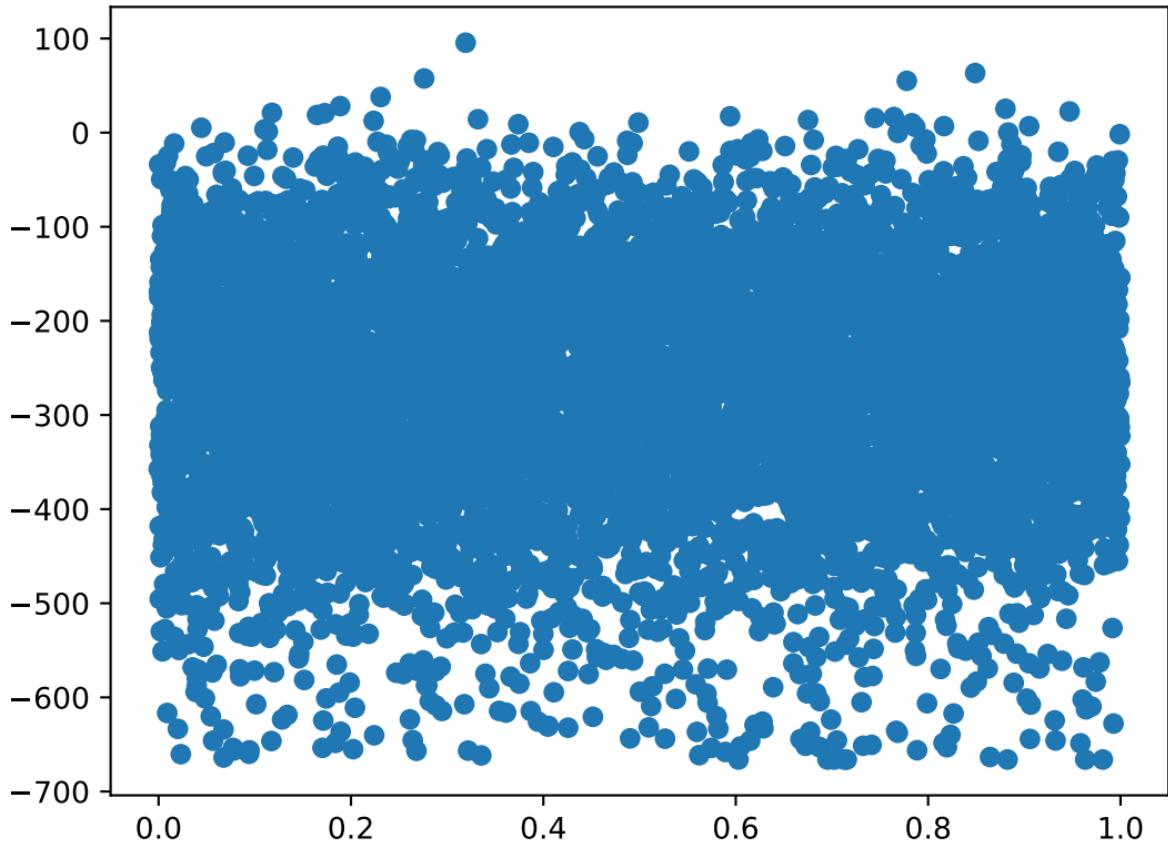
j func CPOX_Pt/Deutschmann2006_adjusted/5/CH4 + HOX + Pt <=> CH3X +



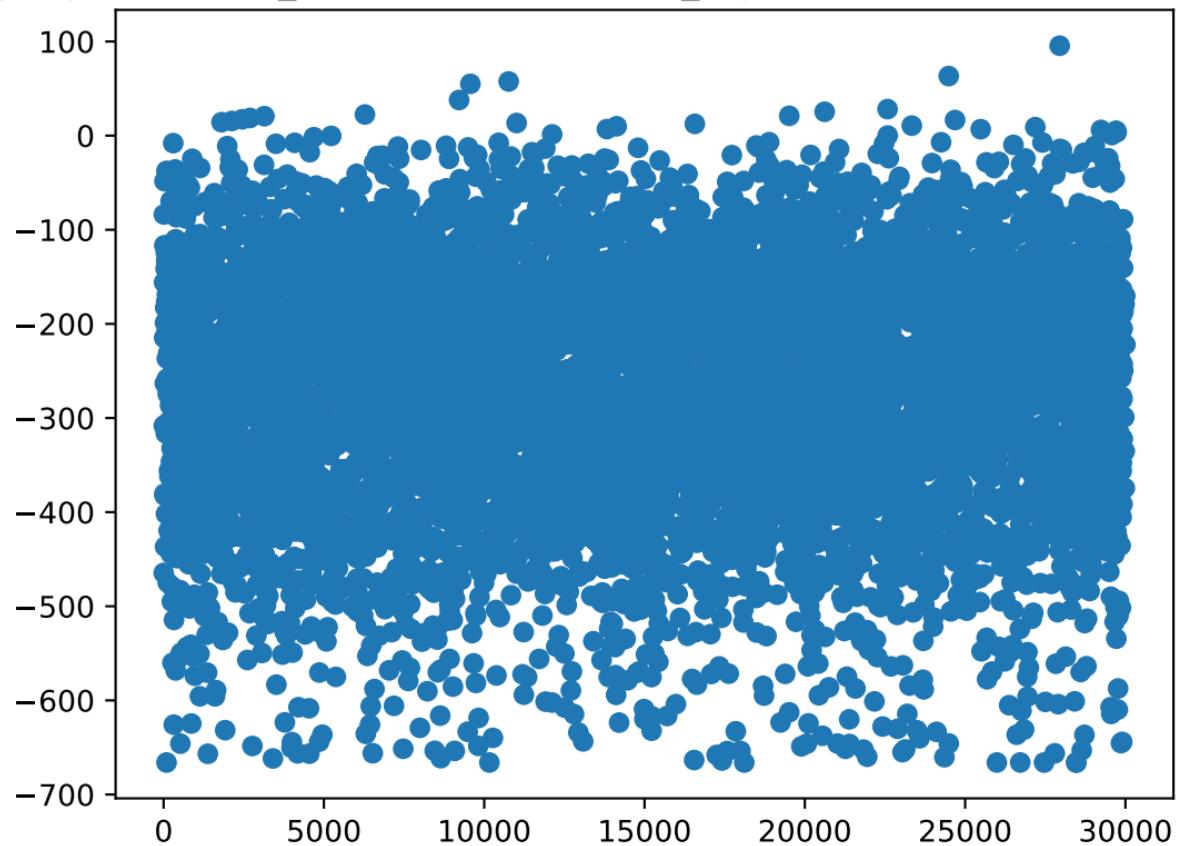
log obj func CPOX_Pt/Deutschmann2006_adjusted/6/H₂O + Pt <=> H₂O_X/E



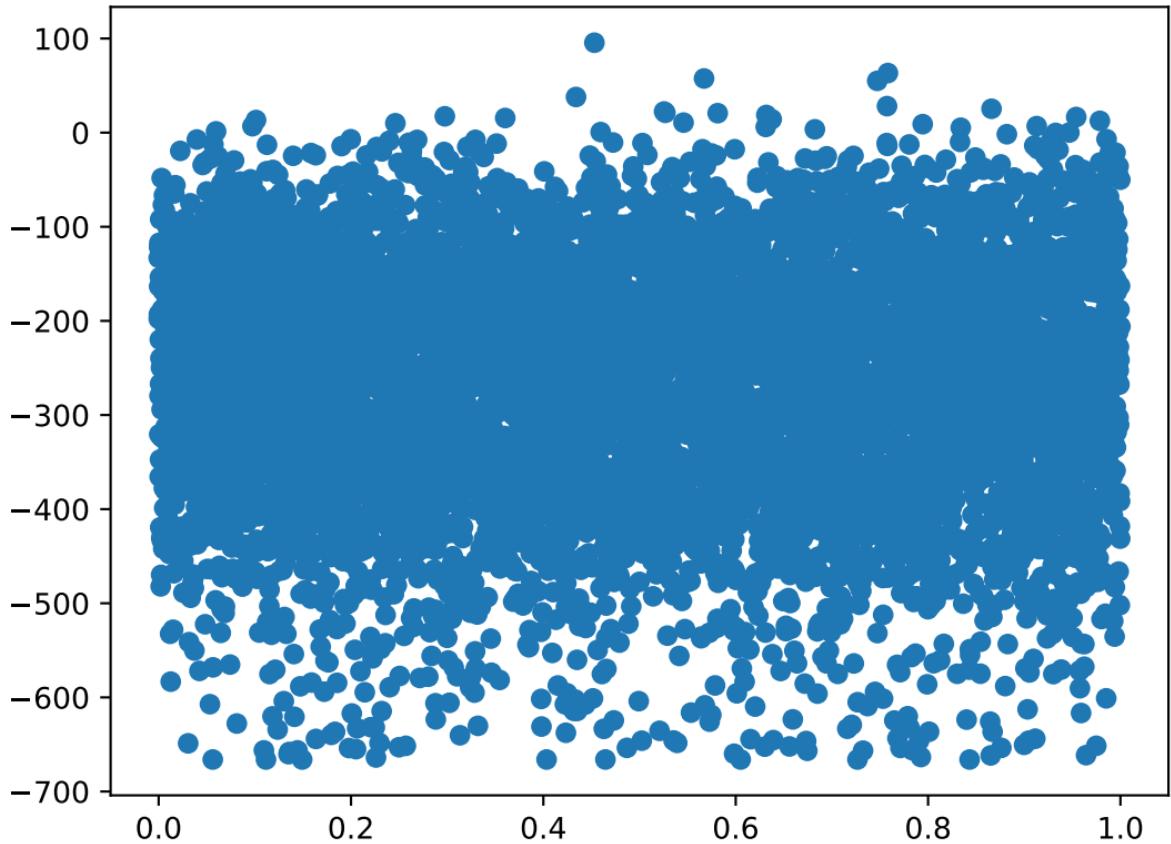
log obj func CPOX_Pt/Deutschmann2006_adjusted/6/H₂O + Pt <=> H₂O_X/A



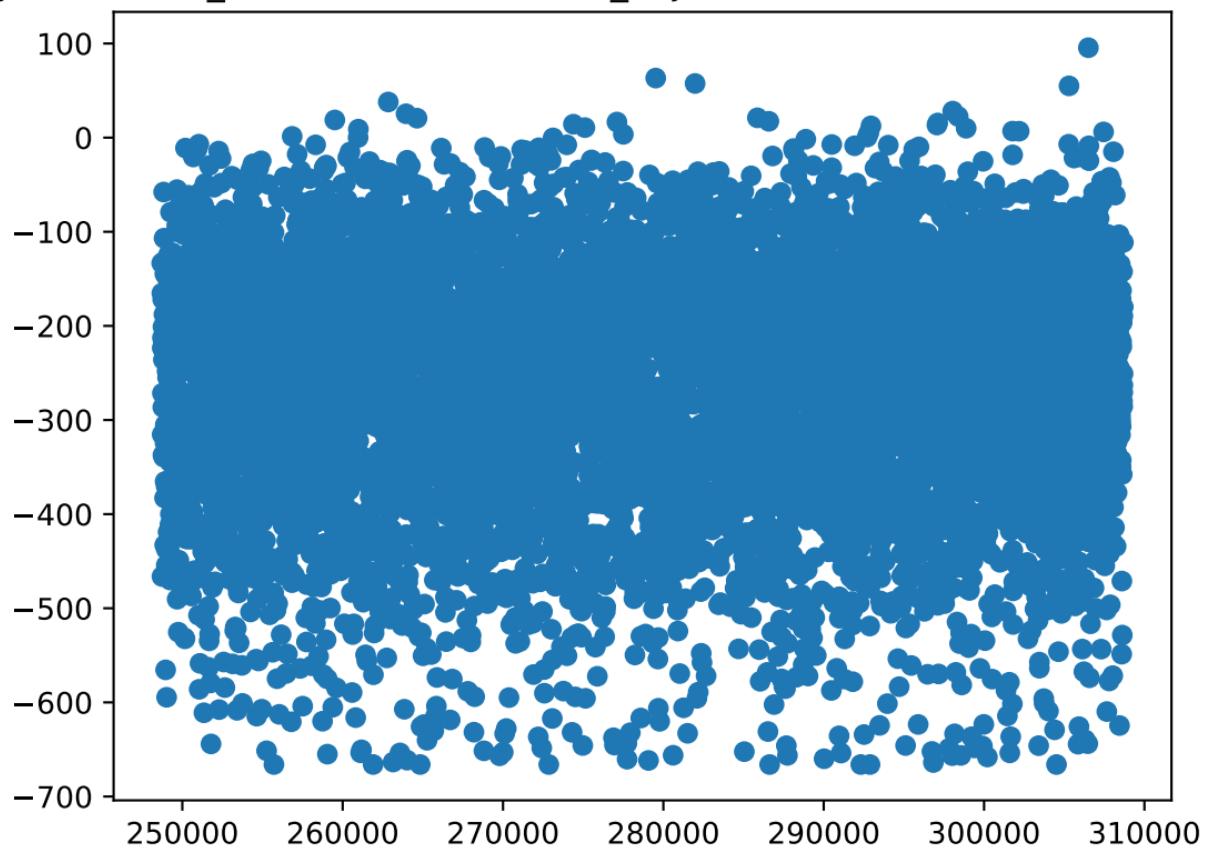
log obj func CPOX_Pt/Deutschmann2006_adjusted/7/CO2 + Pt <=> CO2X/E



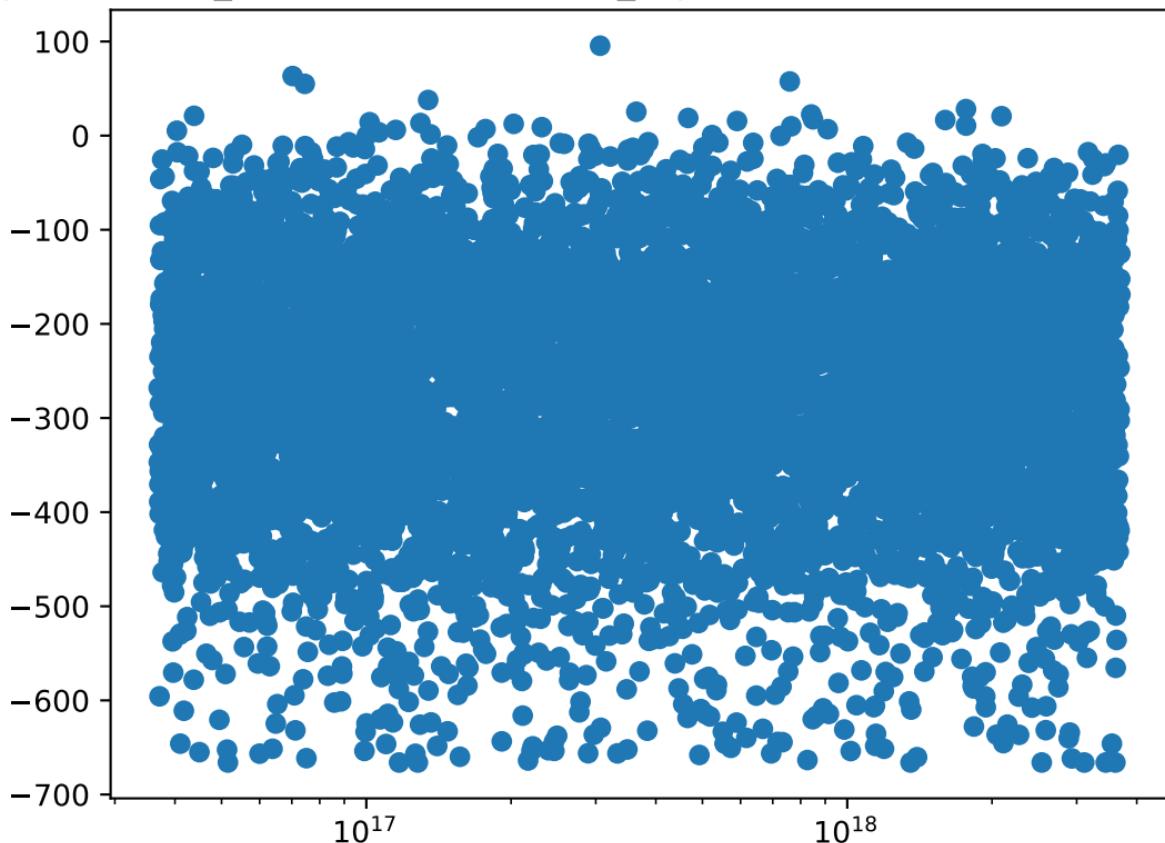
log obj func CPOX_Pt/Deutschmann2006_adjusted/7/CO2 + Pt <=> CO2X/Pt



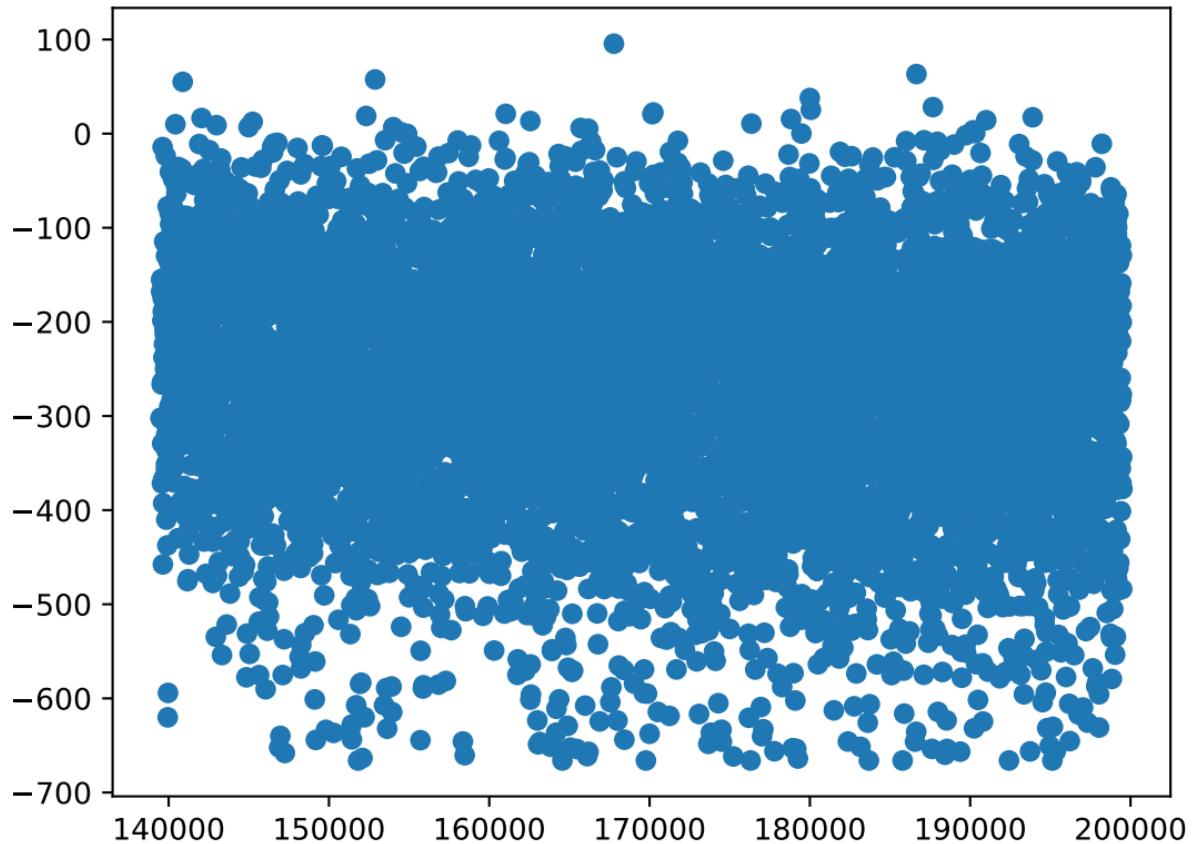
obj func CPOX_Pt/Deutschmann2006_adjusted/10/OX + OX <=> Pt + Pt + O



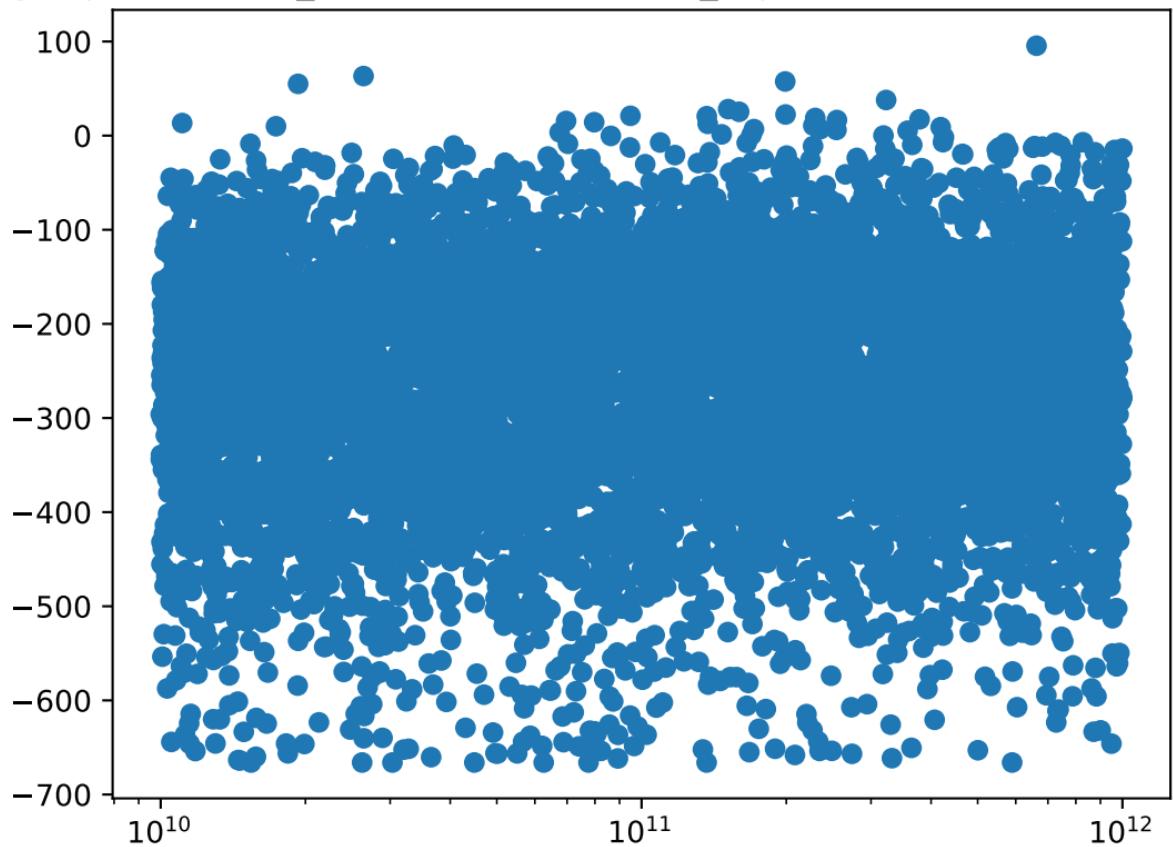
g obj func CPOX_Pt/Deutschmann2006_adjusted/10/OX + OX <=> Pt + Pt +



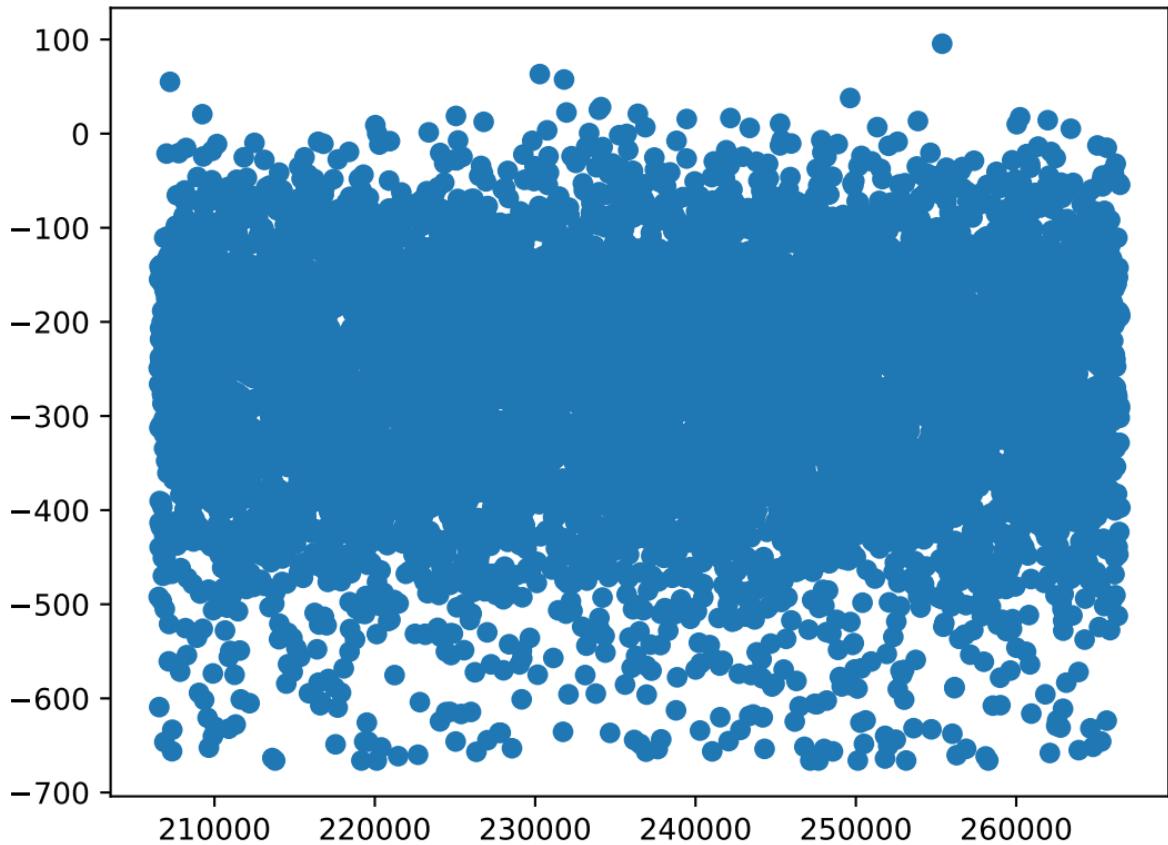
log obj func CPOX_Pt/Deutschmann2006_adjusted/12/OCX <=> CO + Pt/Ea



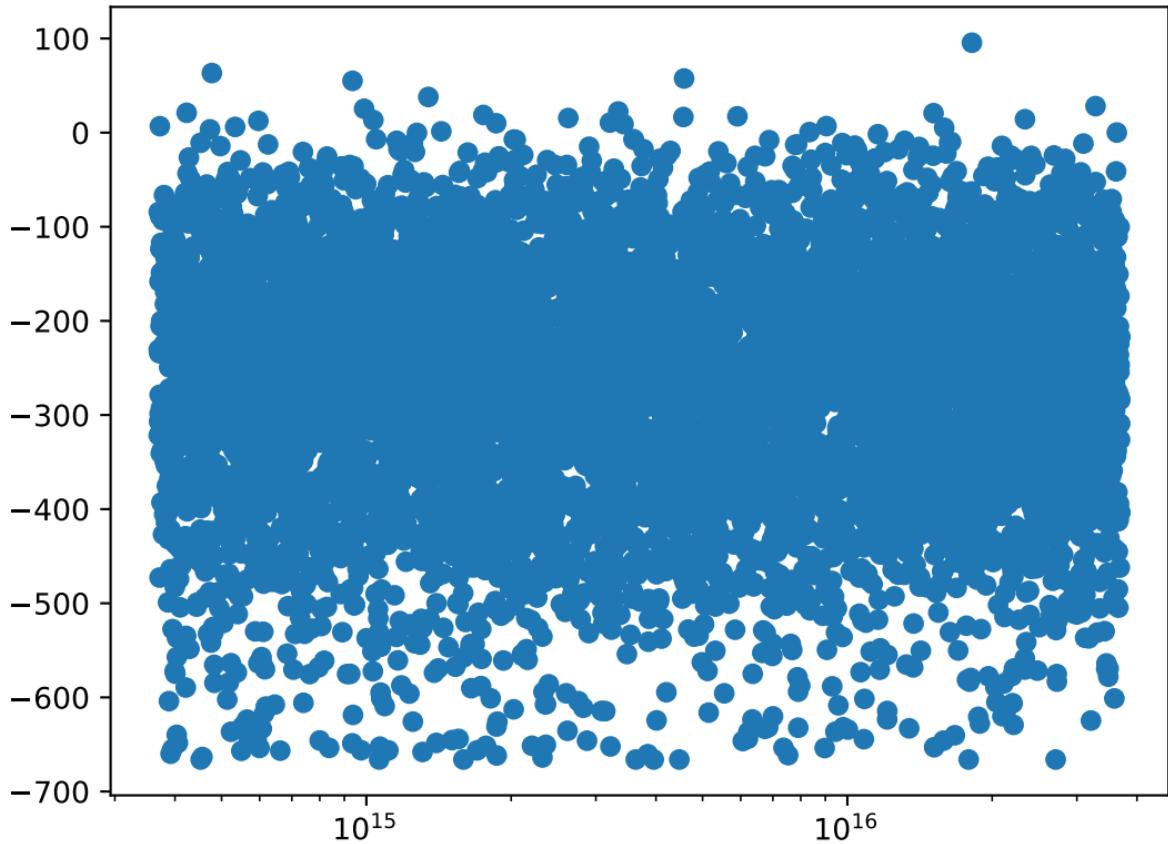
log obj func CPOX_Pt/Deutschmann2006_adjusted/12/OCX <=> CO + Pt/A



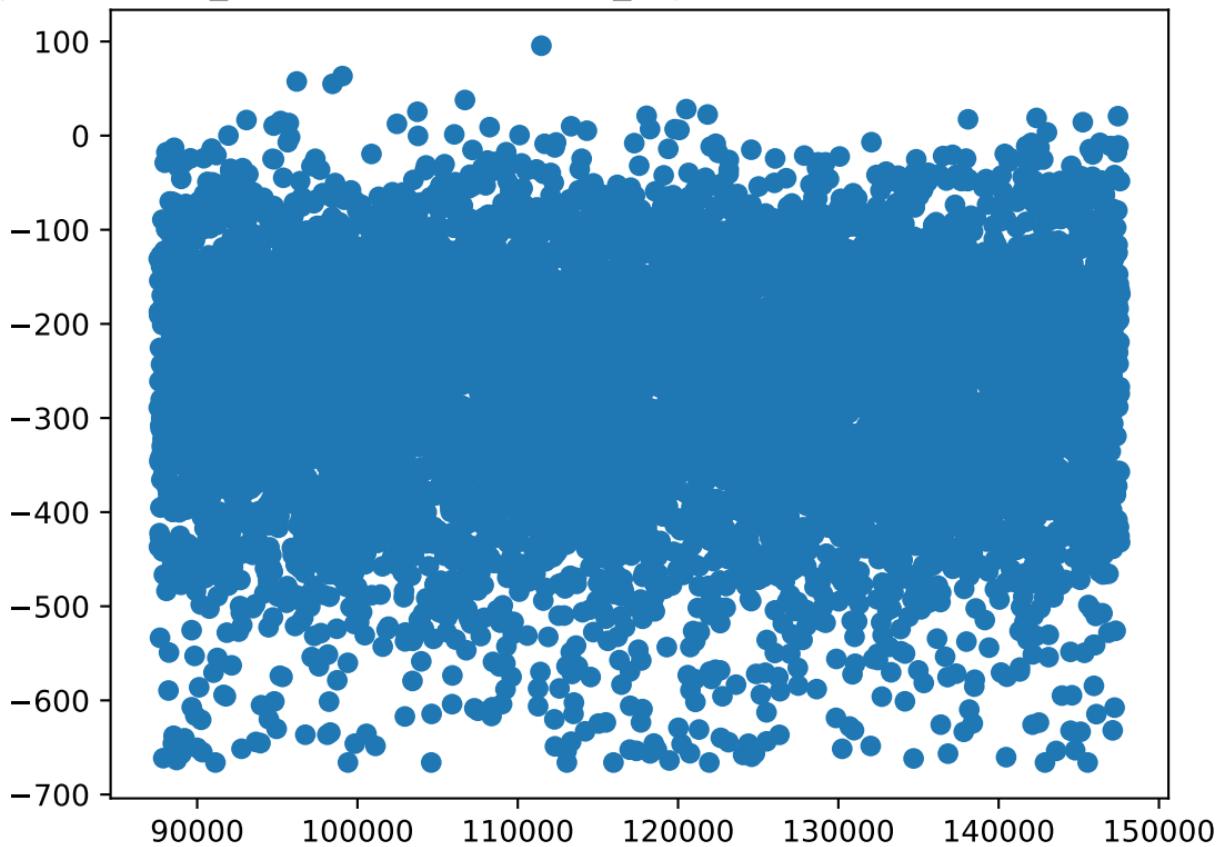
og obj func CPOX_Pt/Deutschmann2006_adjusted/15/OCX + Pt <=> CX + OX



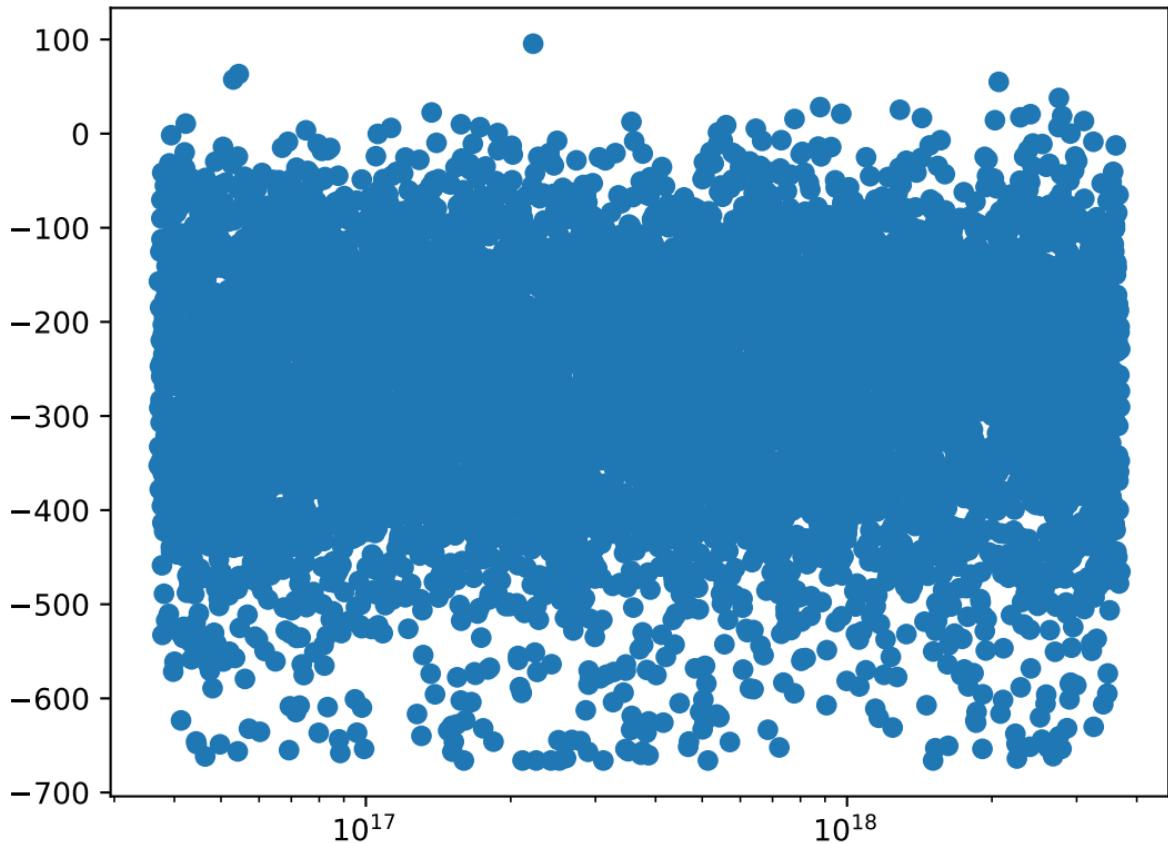
og obj func CPOX_Pt/Deutschmann2006_adjusted/15/OCX + Pt <=> CX + O



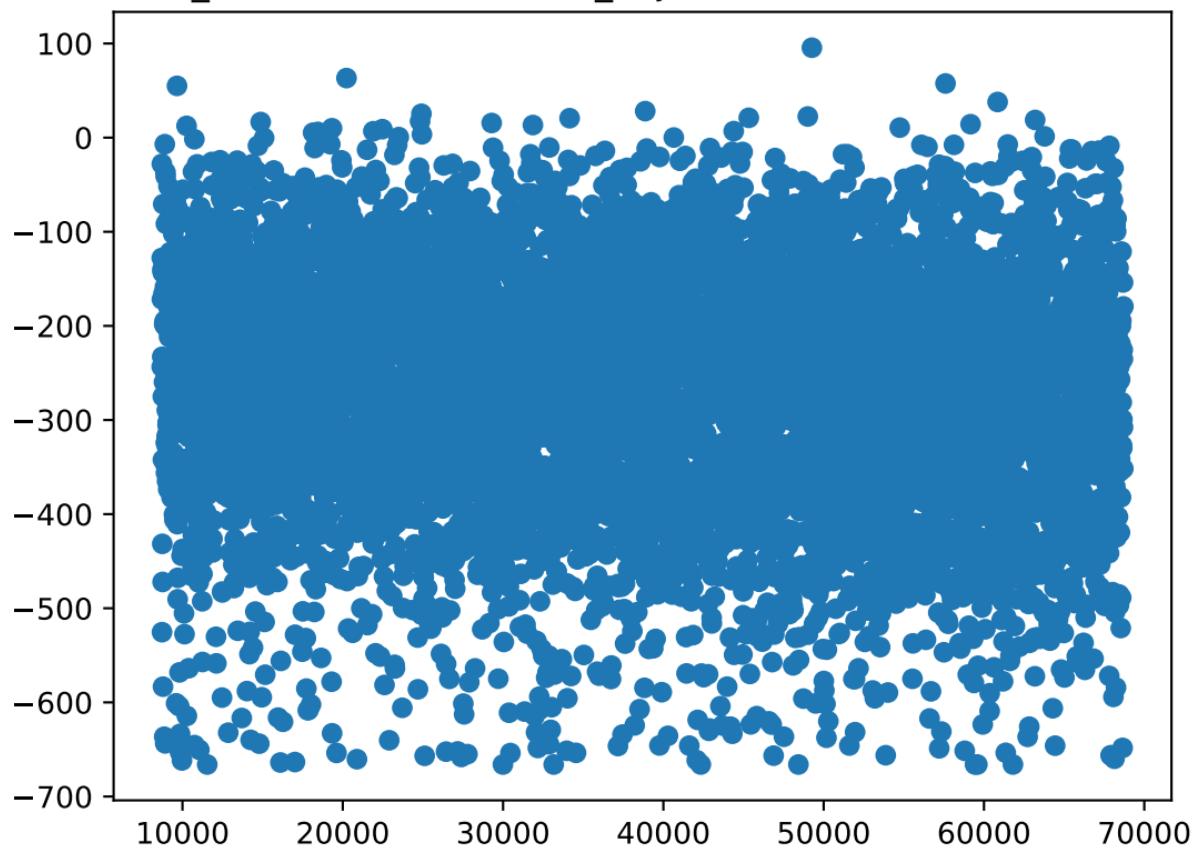
obj func CPOX_Pt/Deutschmann2006_adjusted/16/OCX + OX <=> CO2X +



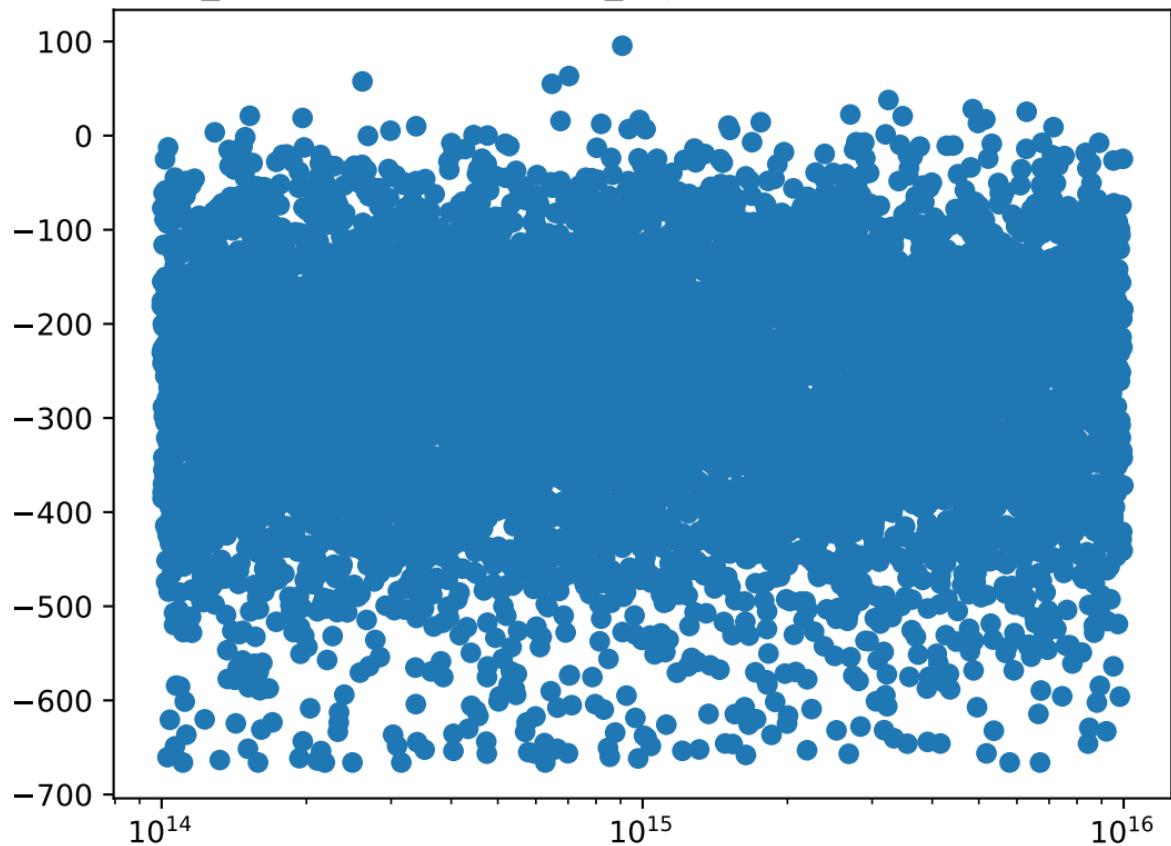
g obj func CPOX_Pt/Deutschmann2006_adjusted/16/OCX + OX <=> CO2X +



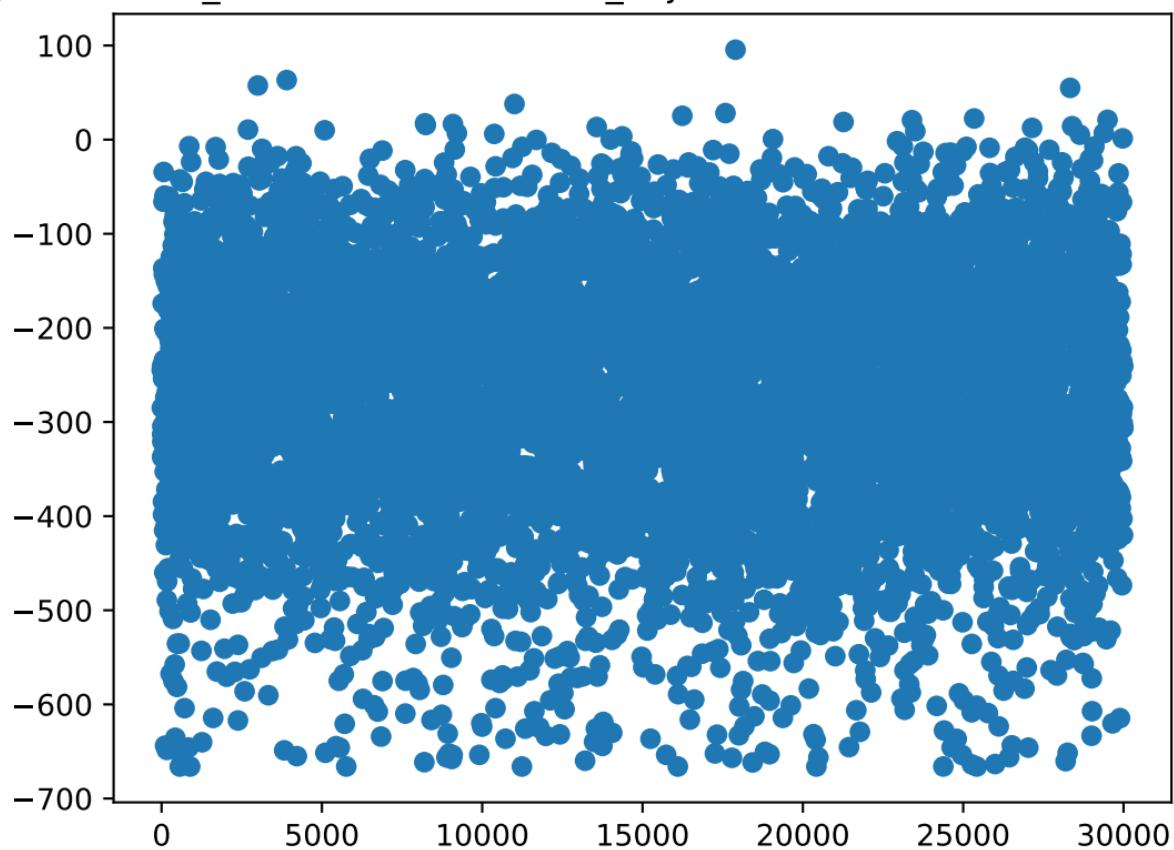
obj func CPOX_Pt/Deutschmann2006_adjusted/18/OCX + HOX <=> CO2X +



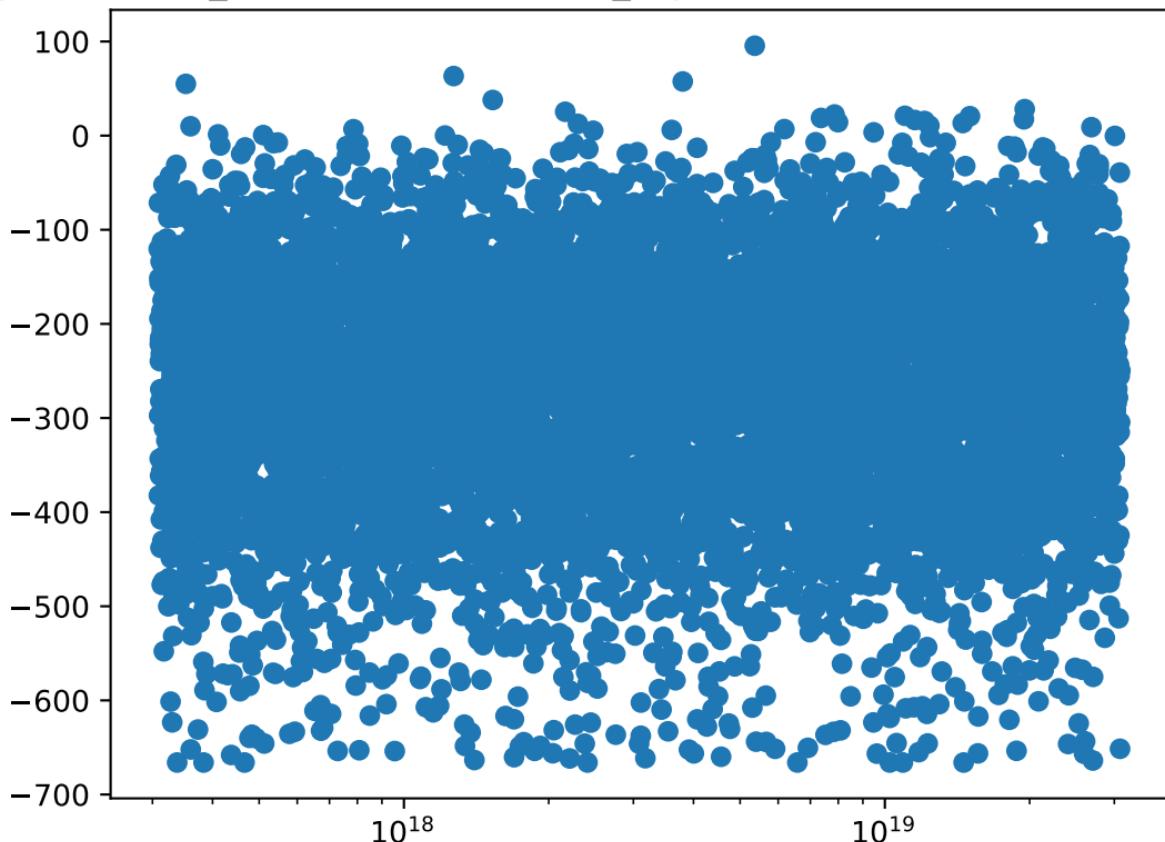
obj func CPOX_Pt/Deutschmann2006_adjusted/18/OCX + HOX <=> CO2X +



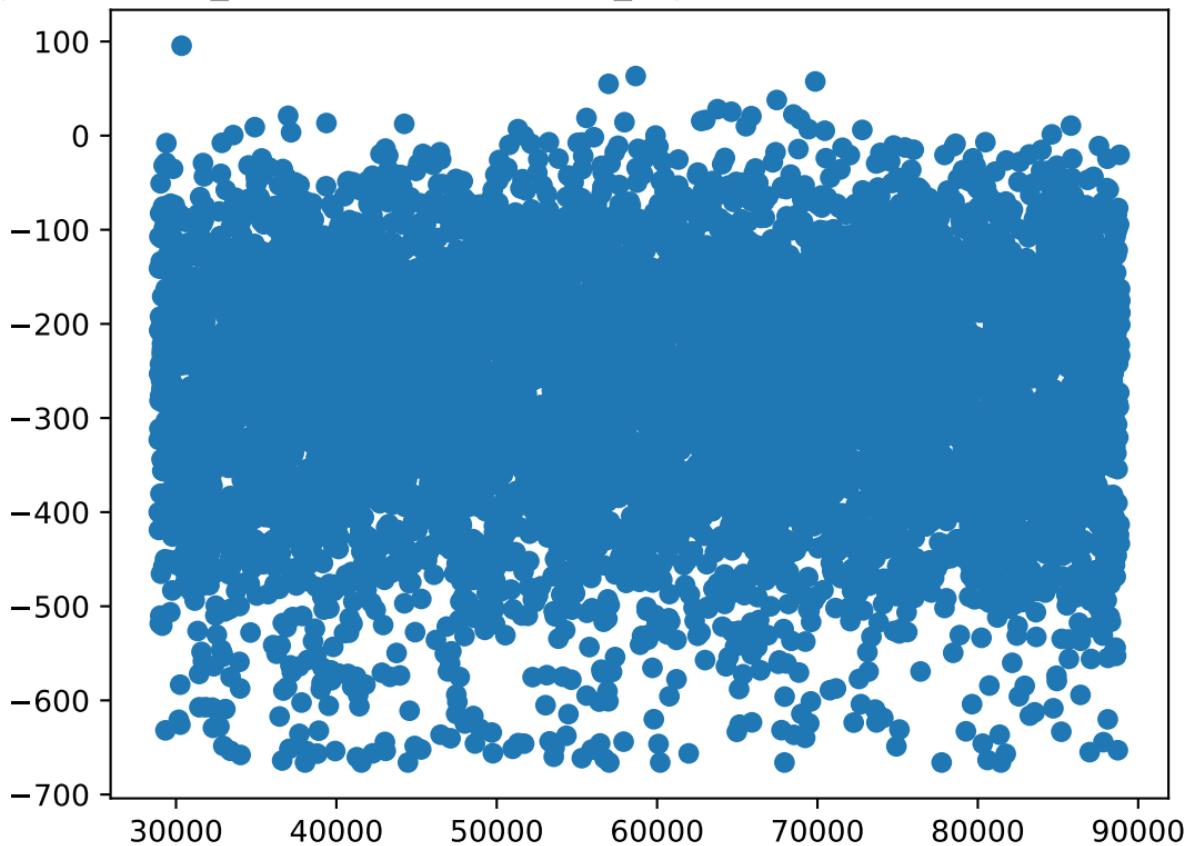
obj func CPOX_Pt/Deutschmann2006_adjusted/21/CH₂X + HX <=> CH₃X +



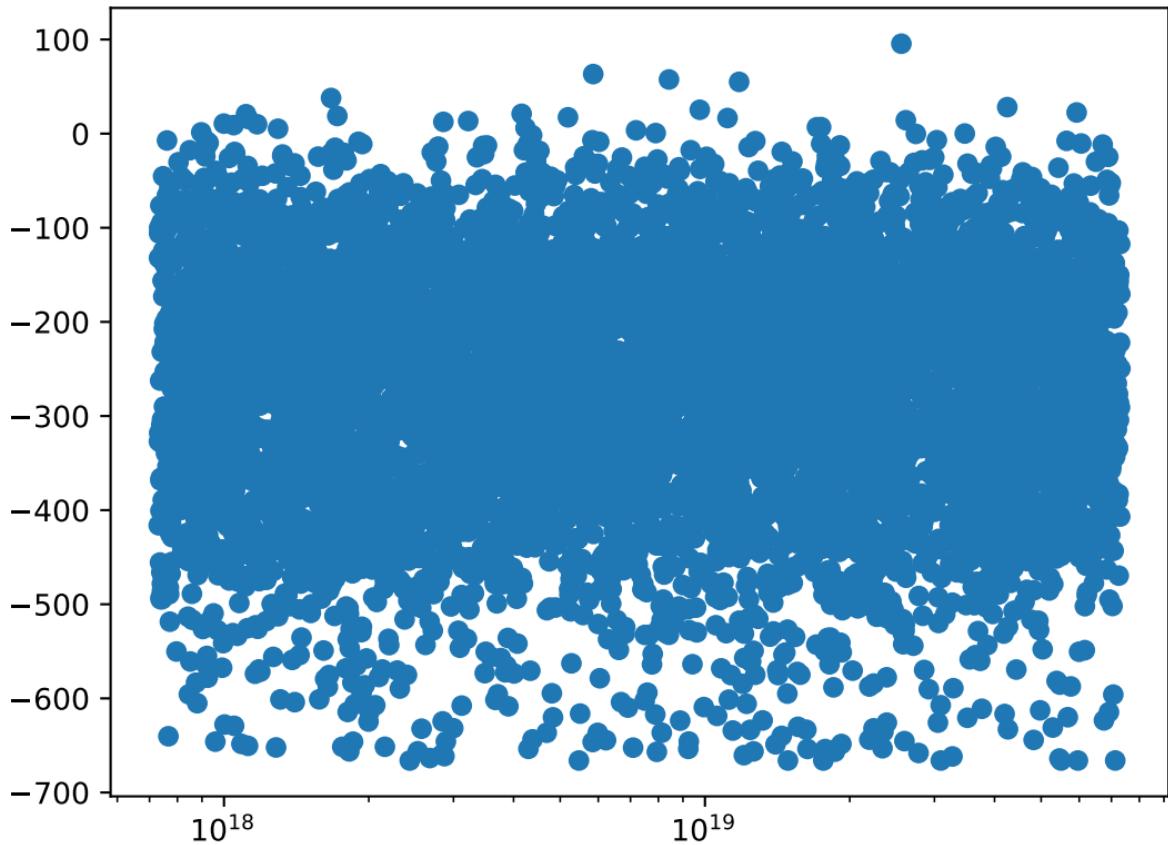
obj func CPOX_Pt/Deutschmann2006_adjusted/21/CH₂X + HX <=> CH₃X +



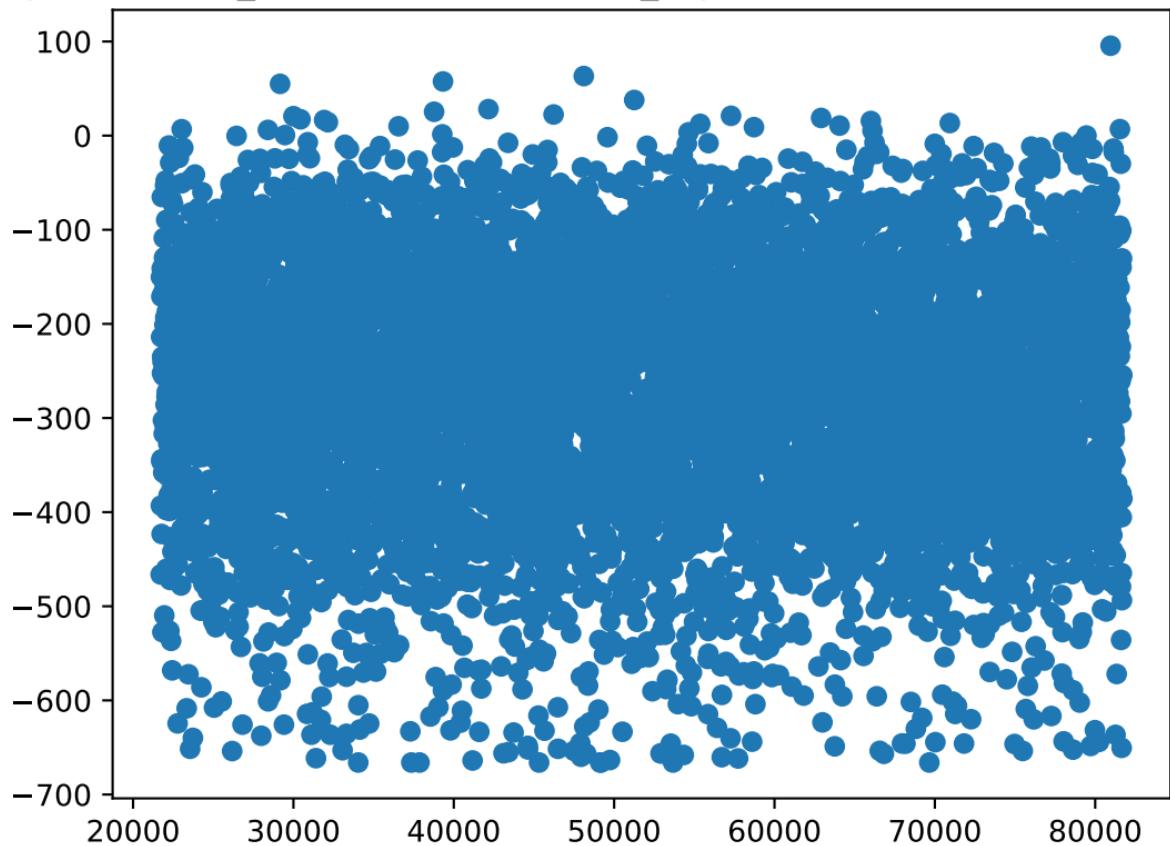
obj func CPOX_Pt/Deutschmann2006_adjusted/22/CH₂X + Pt <=> CHX + H



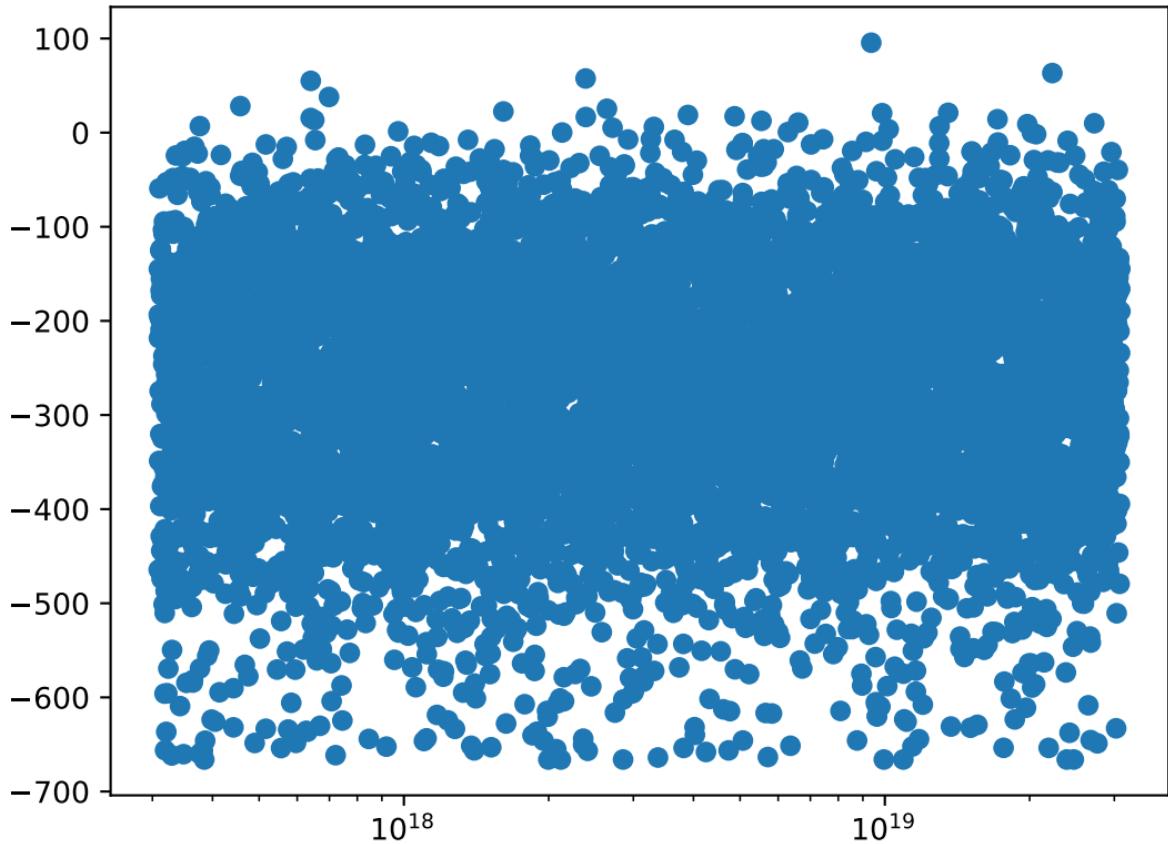
g obj func CPOX_Pt/Deutschmann2006_adjusted/22/CH2X + Pt <=> CHX + H



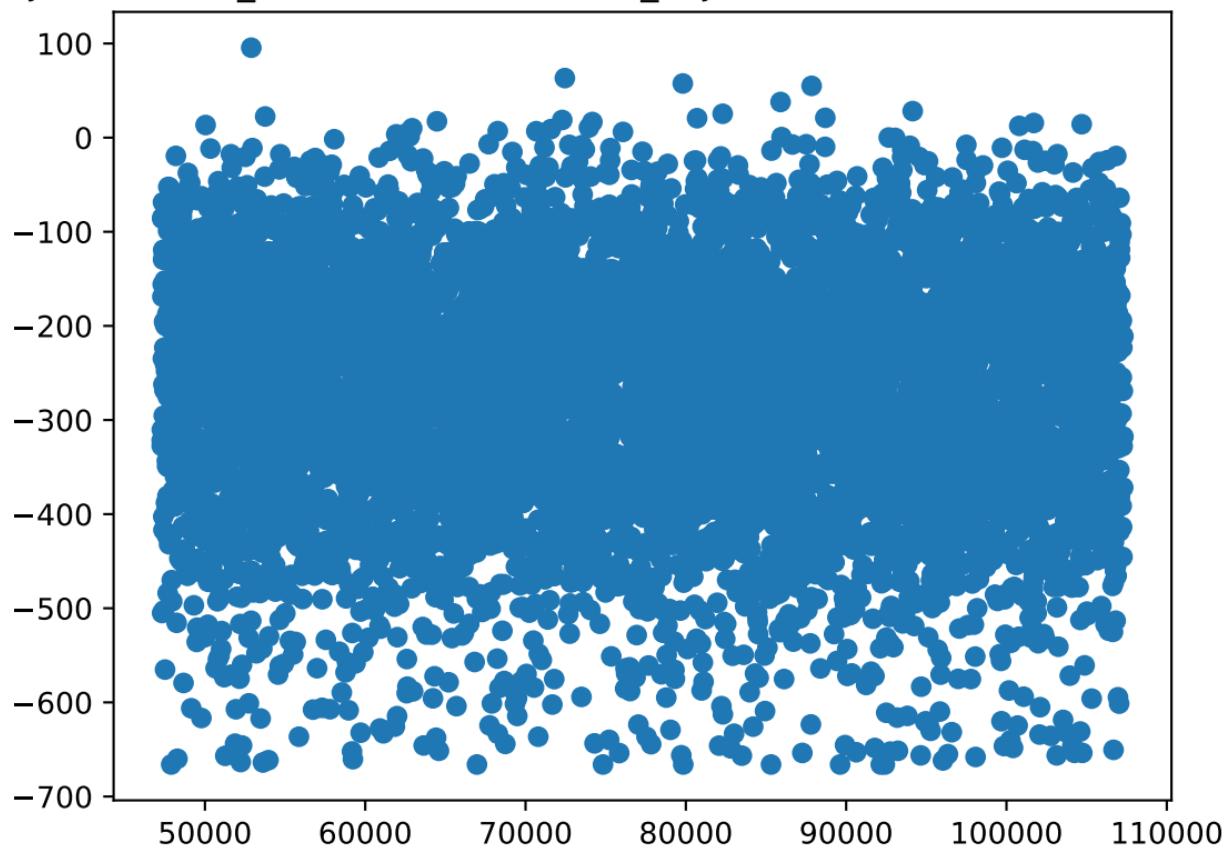
log obj func CPOX_Pt/Deutschmann2006_adjusted/24/CHX + Pt <=> CX + HX



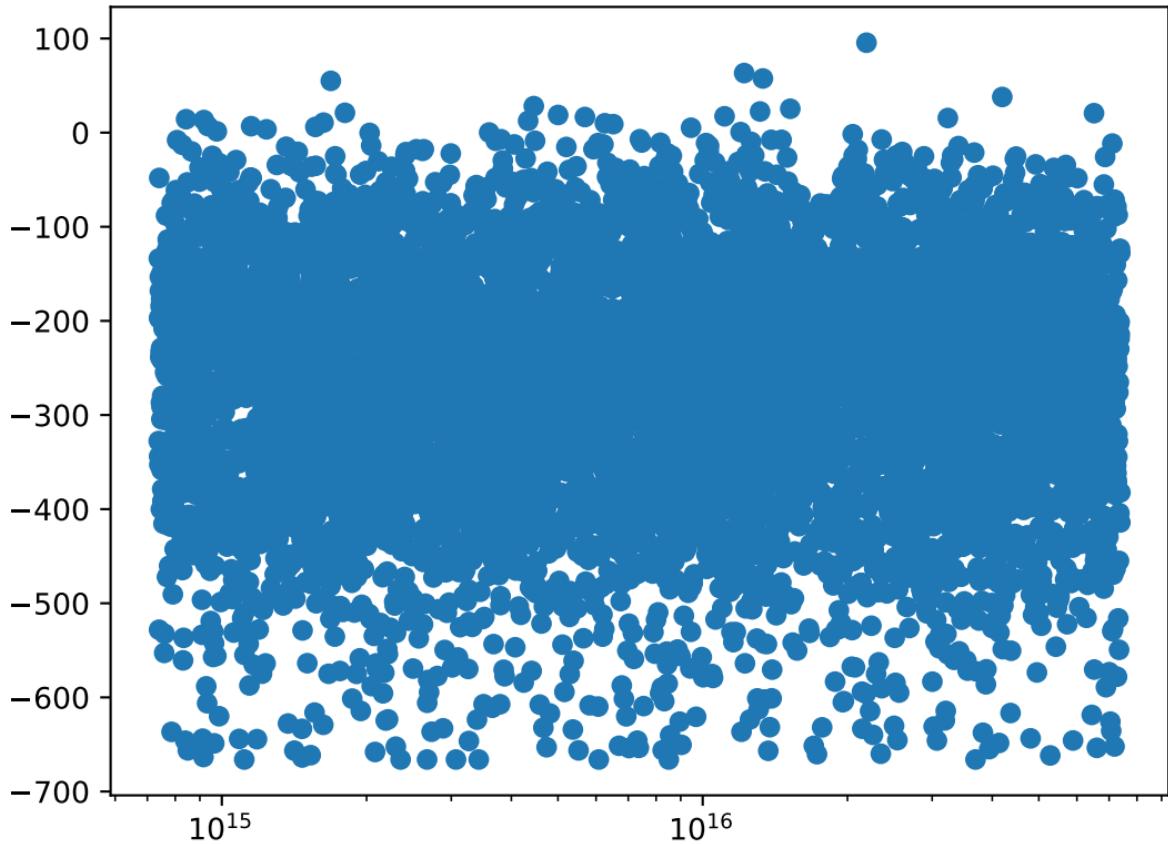
og obj func CPOX_Pt/Deutschmann2006_adjusted/24/CHX + Pt <=> CX + H



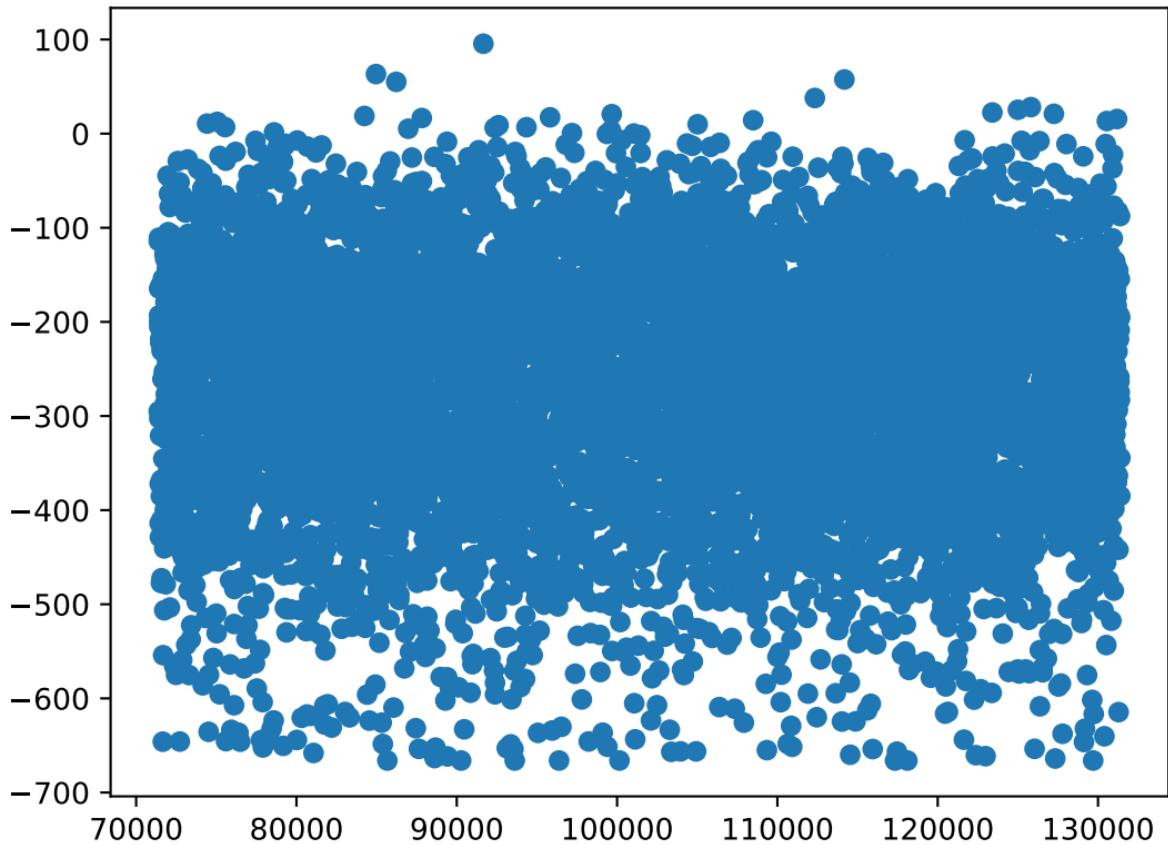
og obj func CPOX_Pt/Deutschmann2006_adjusted/27/HOX + Pt <=> HX + OX



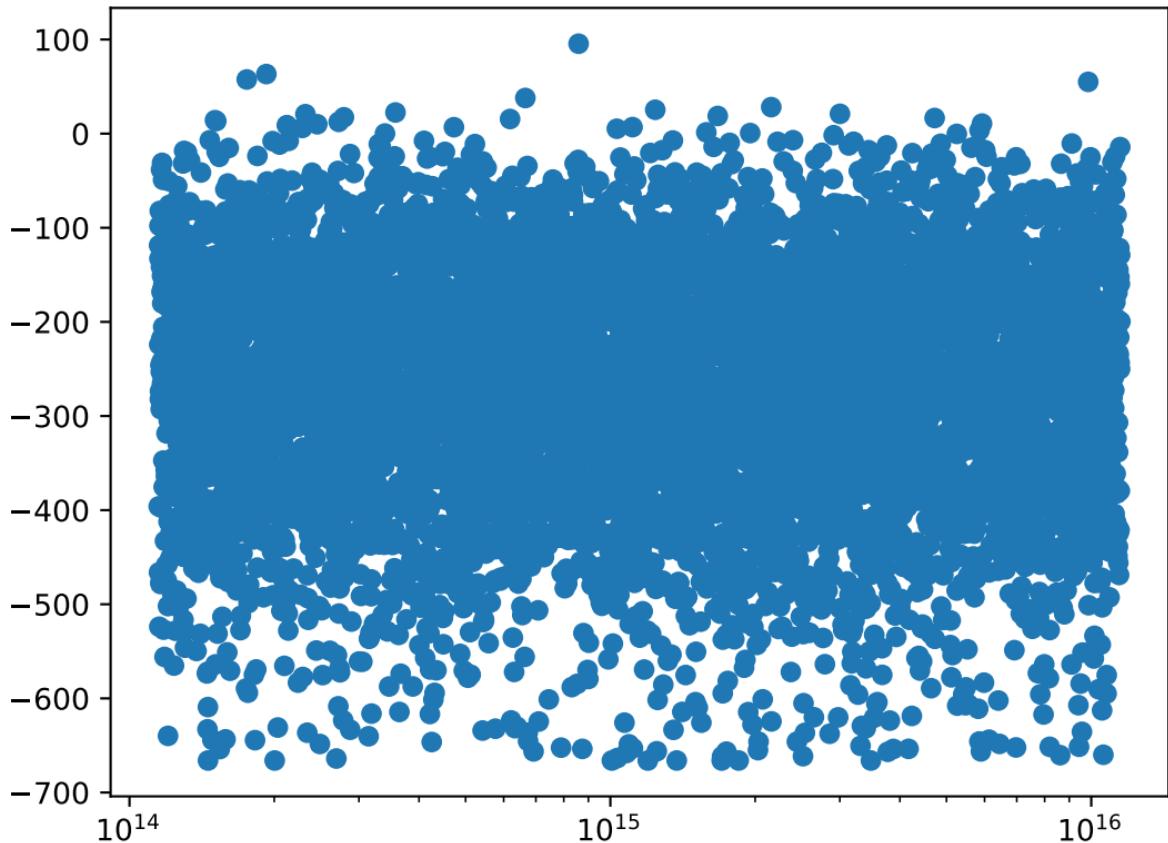
log obj func CPOX_Pt/Deutschmann2006_adjusted/27/HOX + Pt <=> HX + O



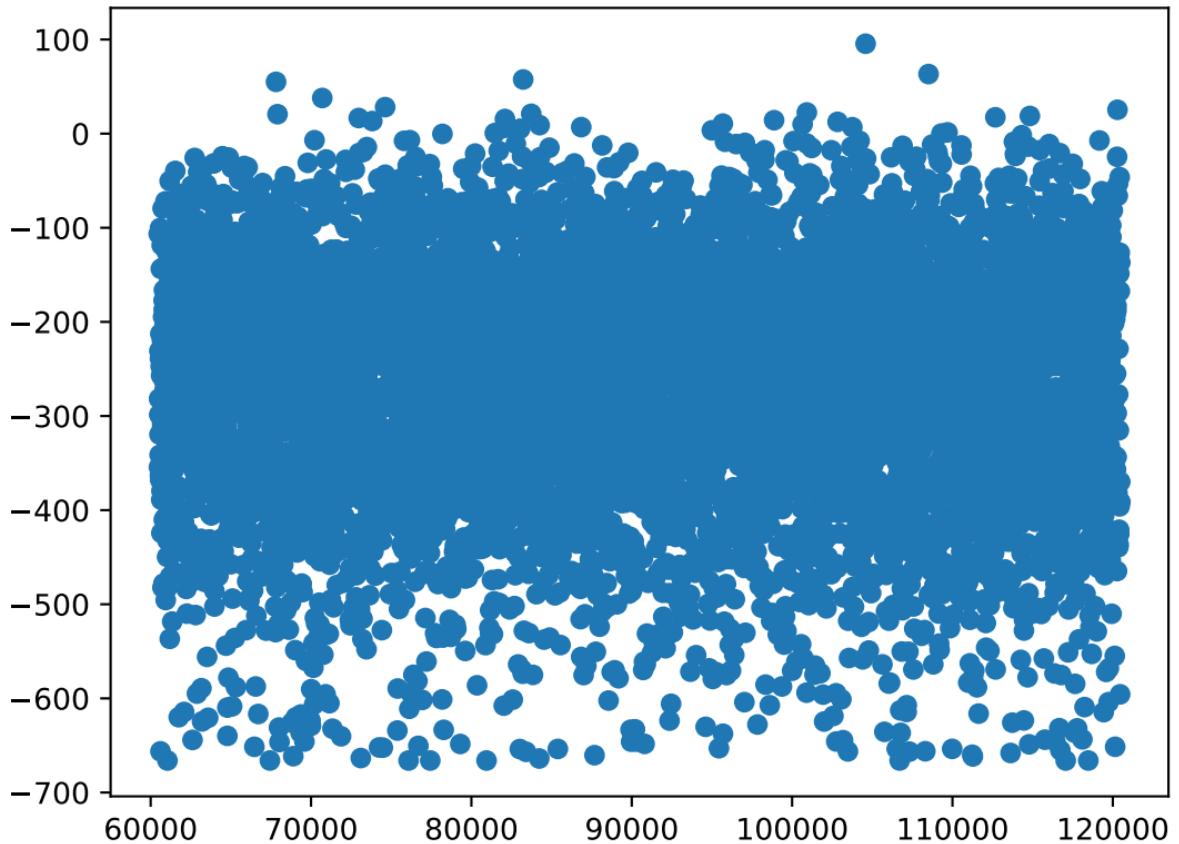
obj func CPOX_Pt/Deutschmann2006_adjusted/28/H2OX + Pt <=> HX + HC



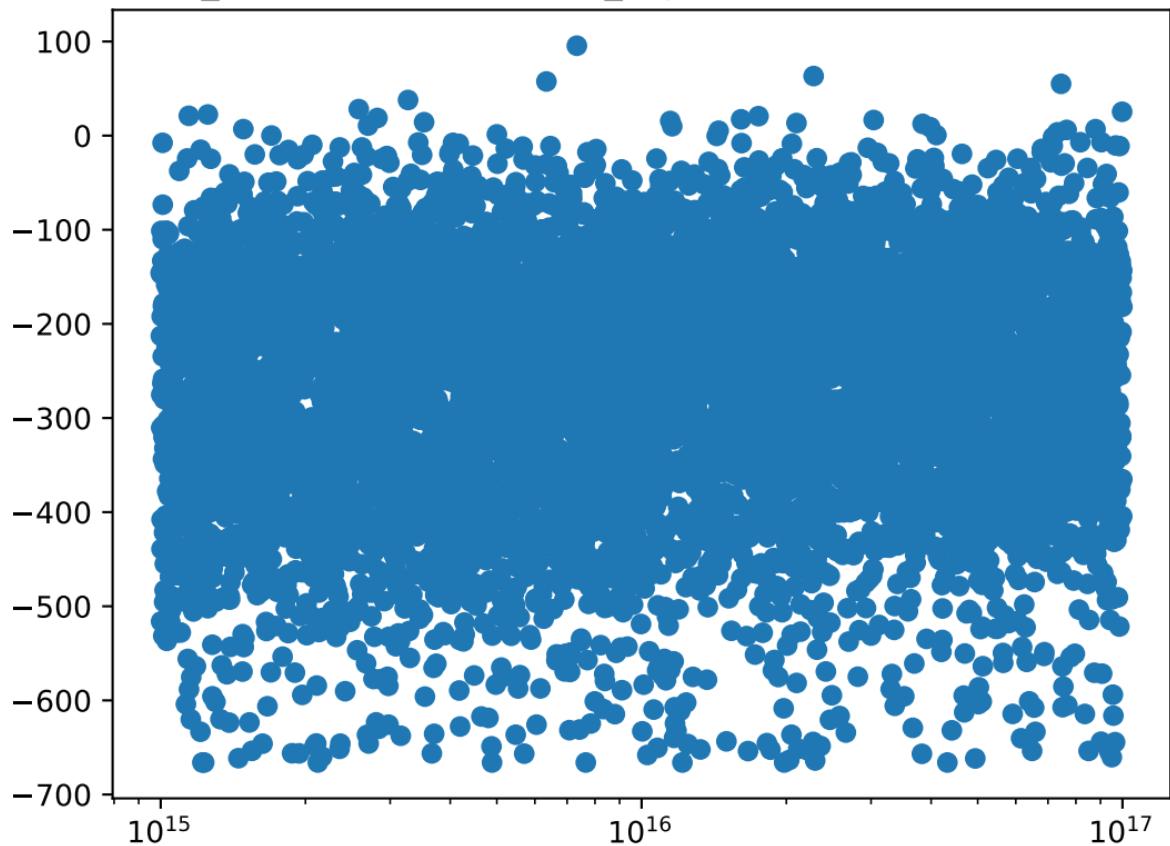
g obj func CPOX_Pt/Deutschmann2006_adjusted/28/H₂OX + Pt <=> HX + HC



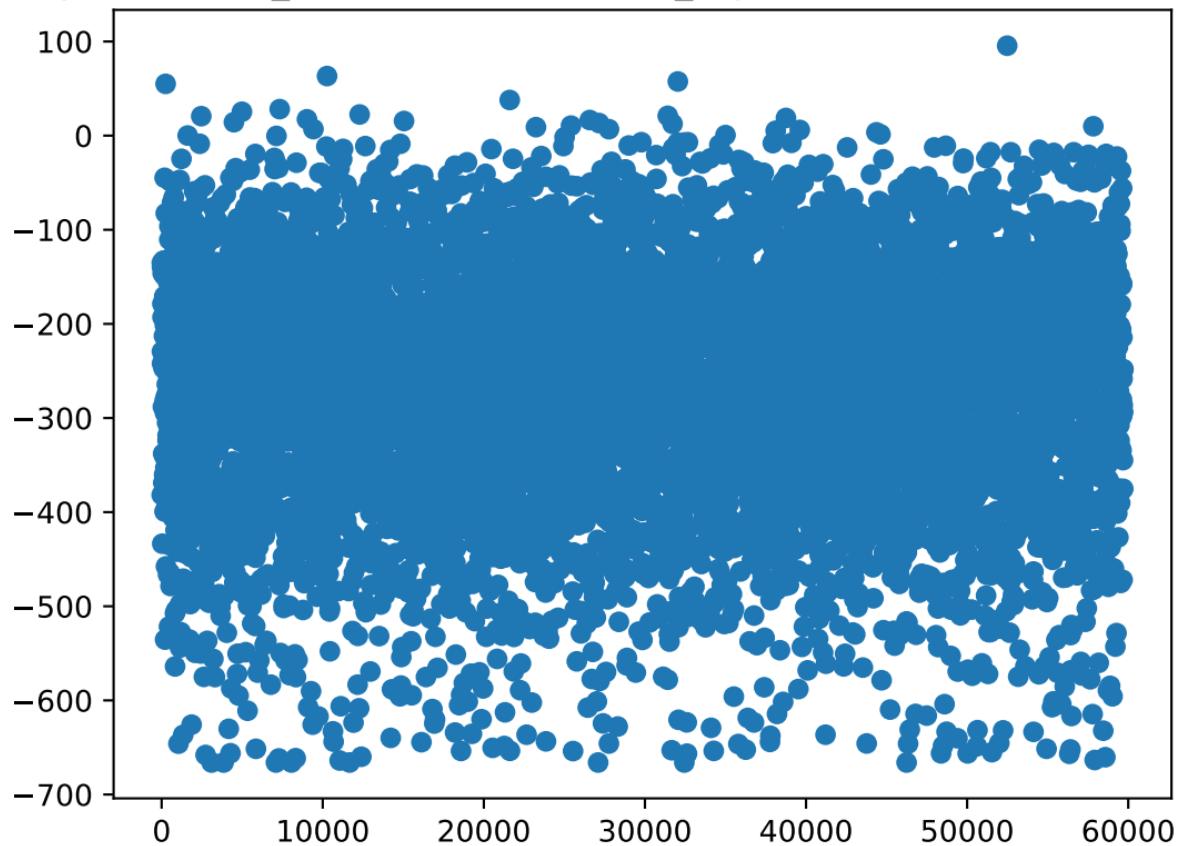
obj func CPOX_Pt/Deutschmann2006_adjusted/30/H₂OX + OX <=> HOX + H



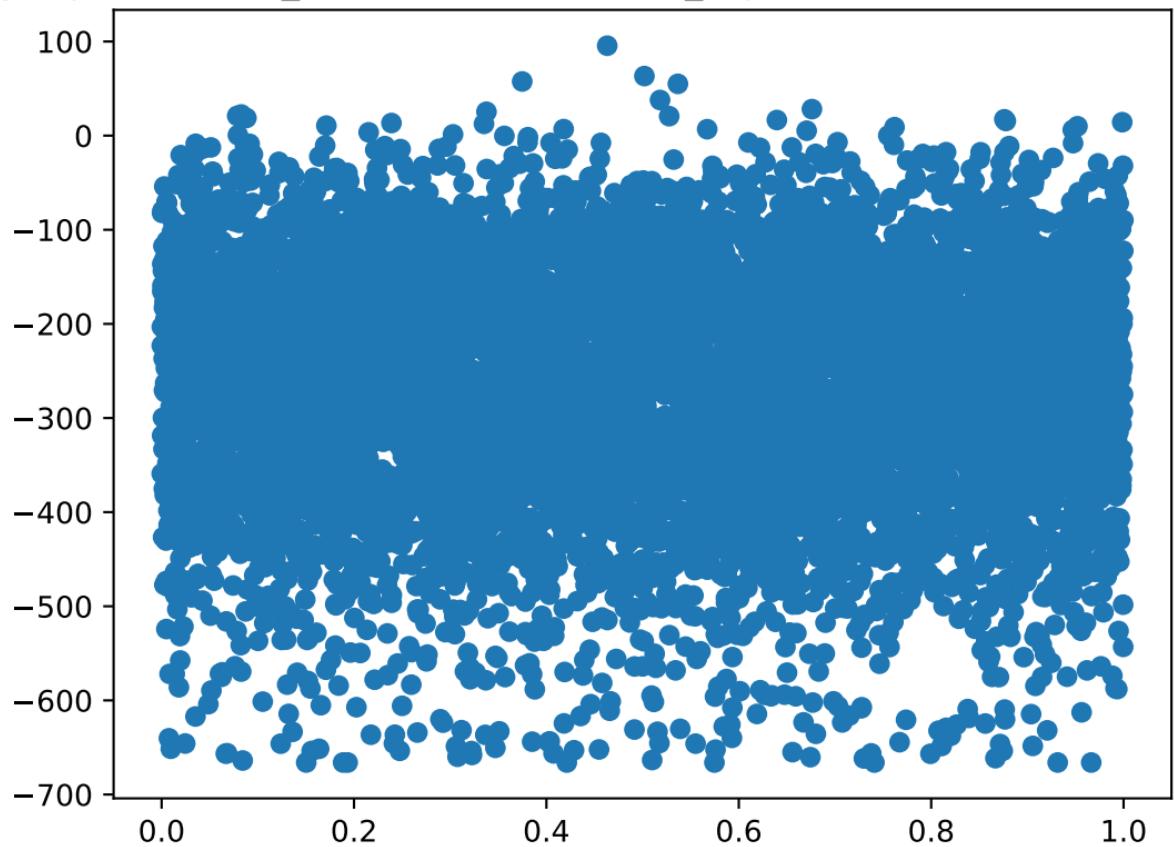
obj func CPOX_Pt/Deutschmann2006_adjusted/30/H₂OX + OX <=> HOX + H



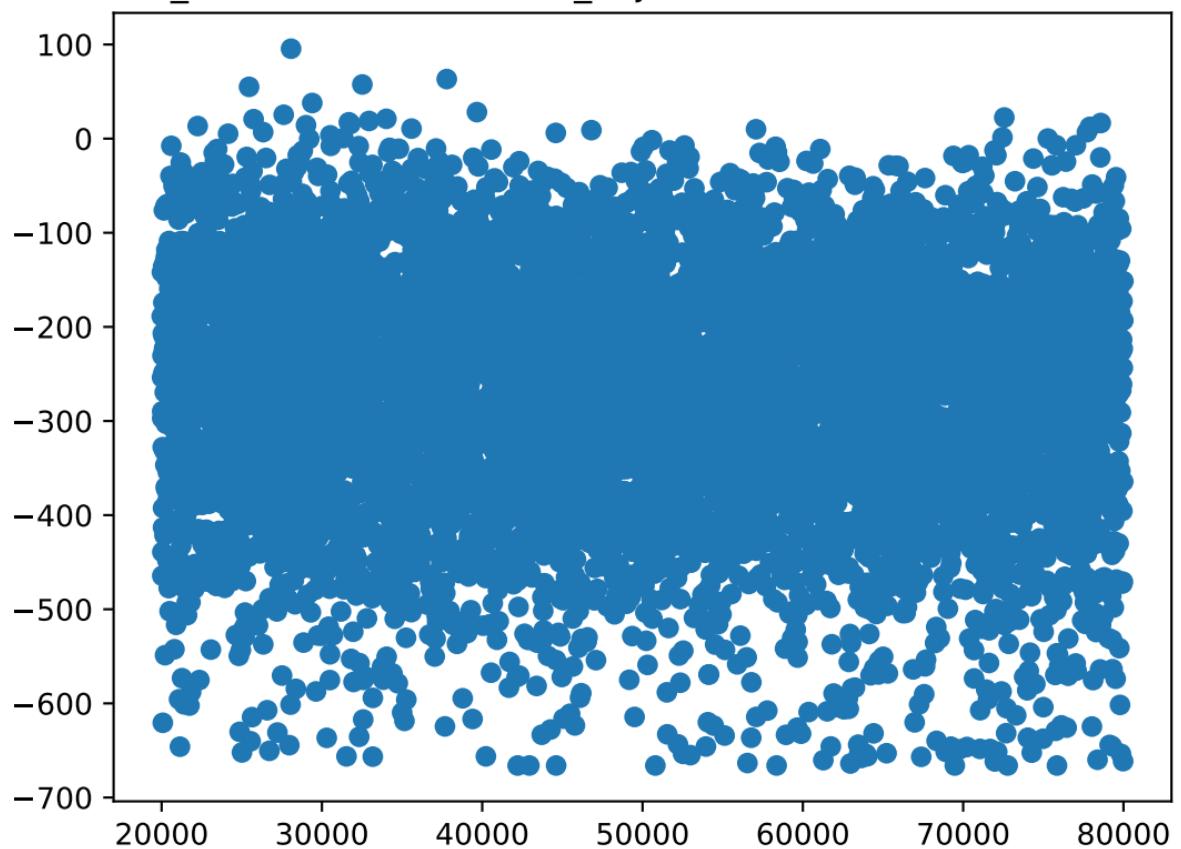
log obj func CPOX_Pt/Deutschmann2006_adjusted/31/H2 + CX <=> CH2X/E



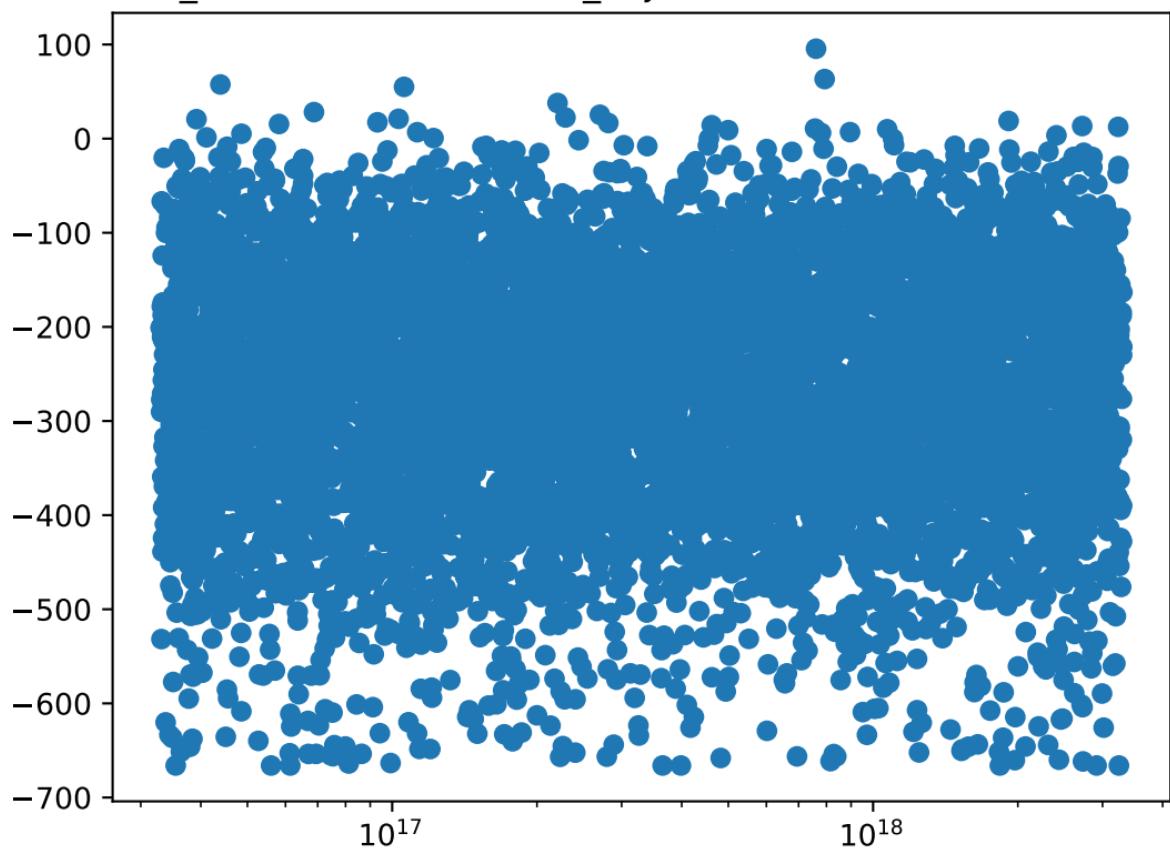
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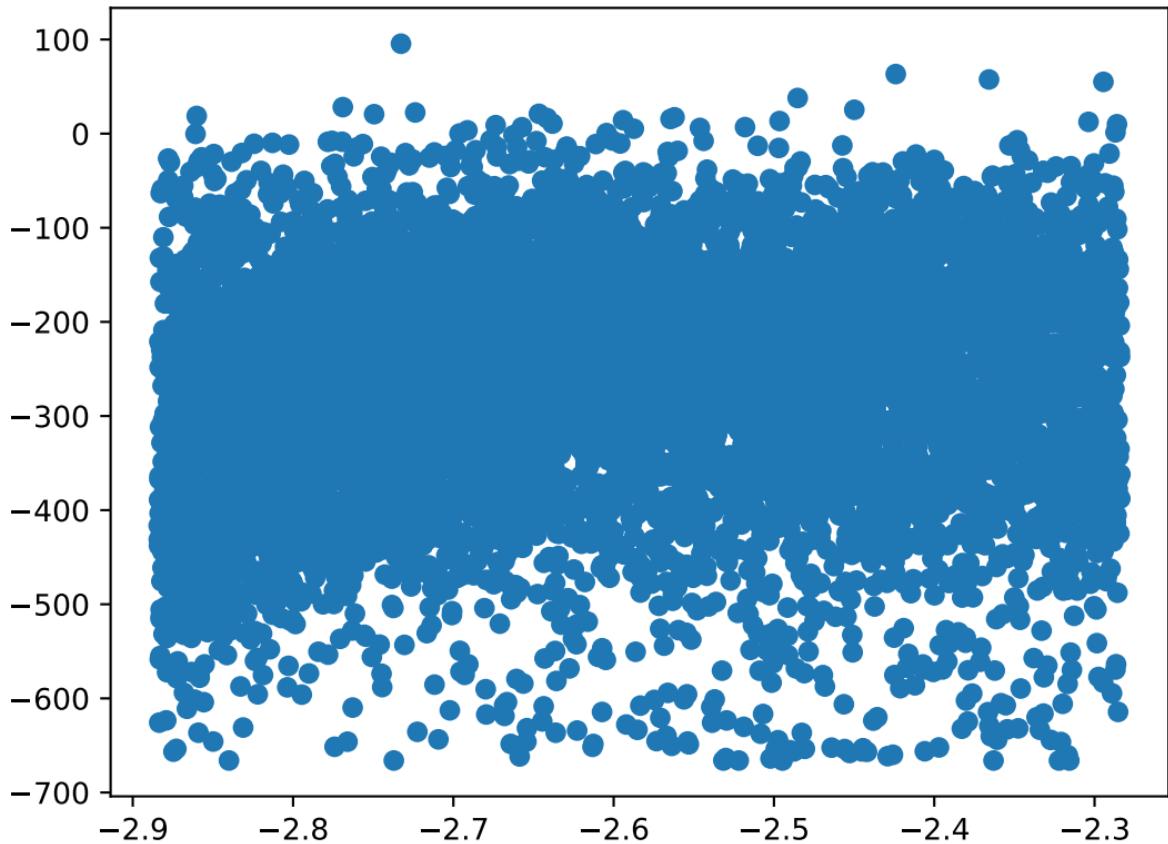
obj func CPOX_Pt/Deutschmann2006_adjusted/34/CH₃X + HX <=> CH₄ + Pt



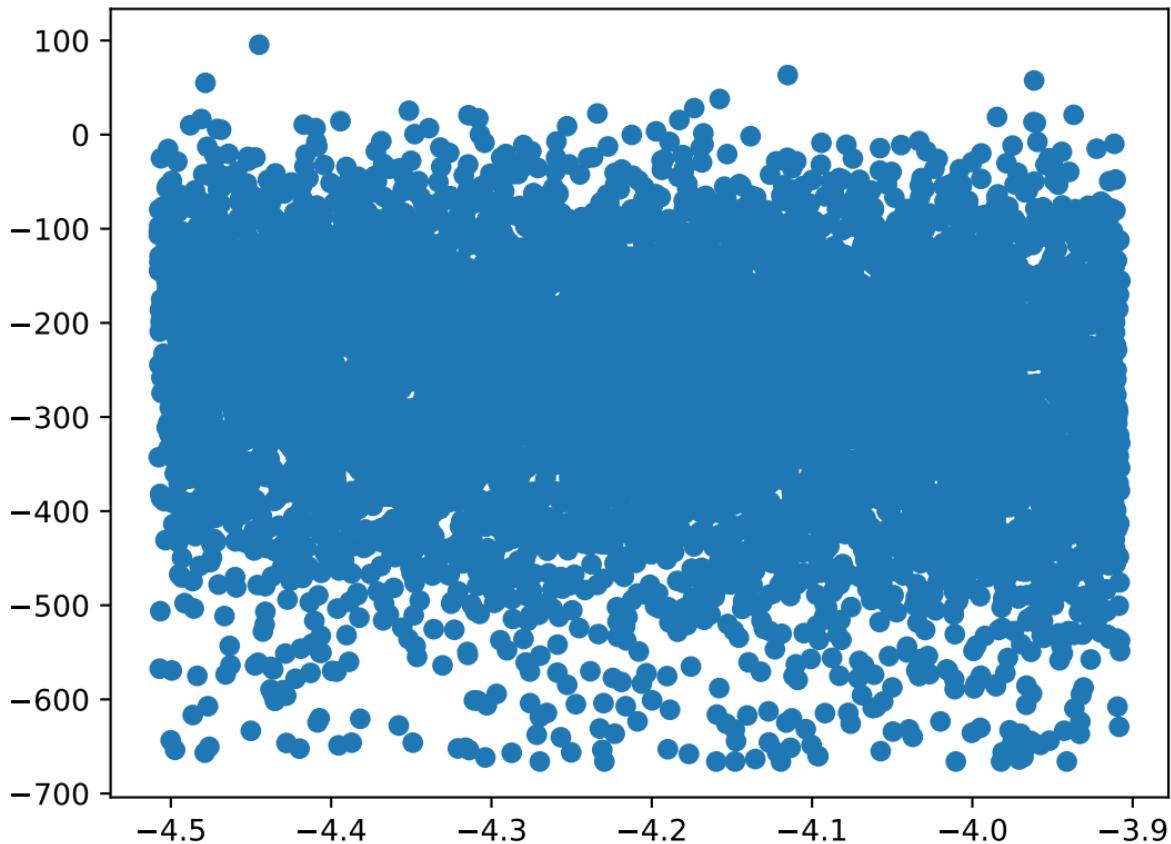
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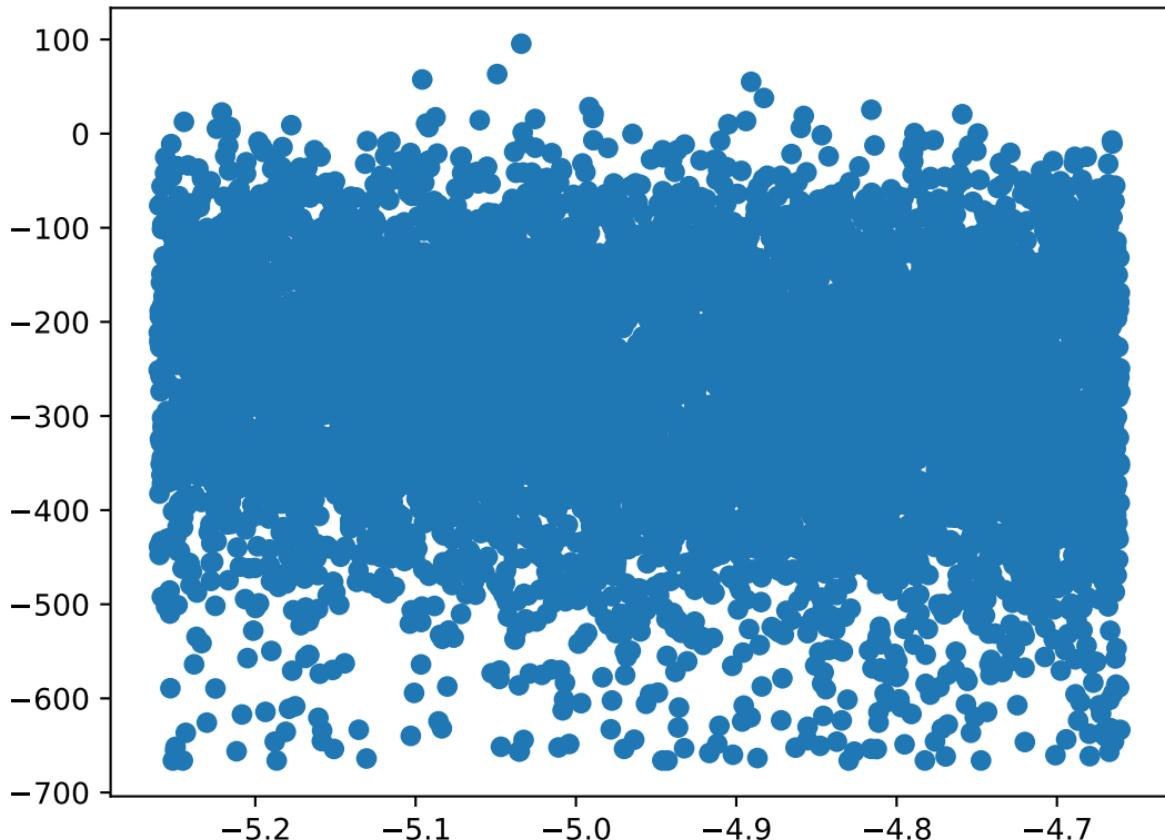
log obj func H



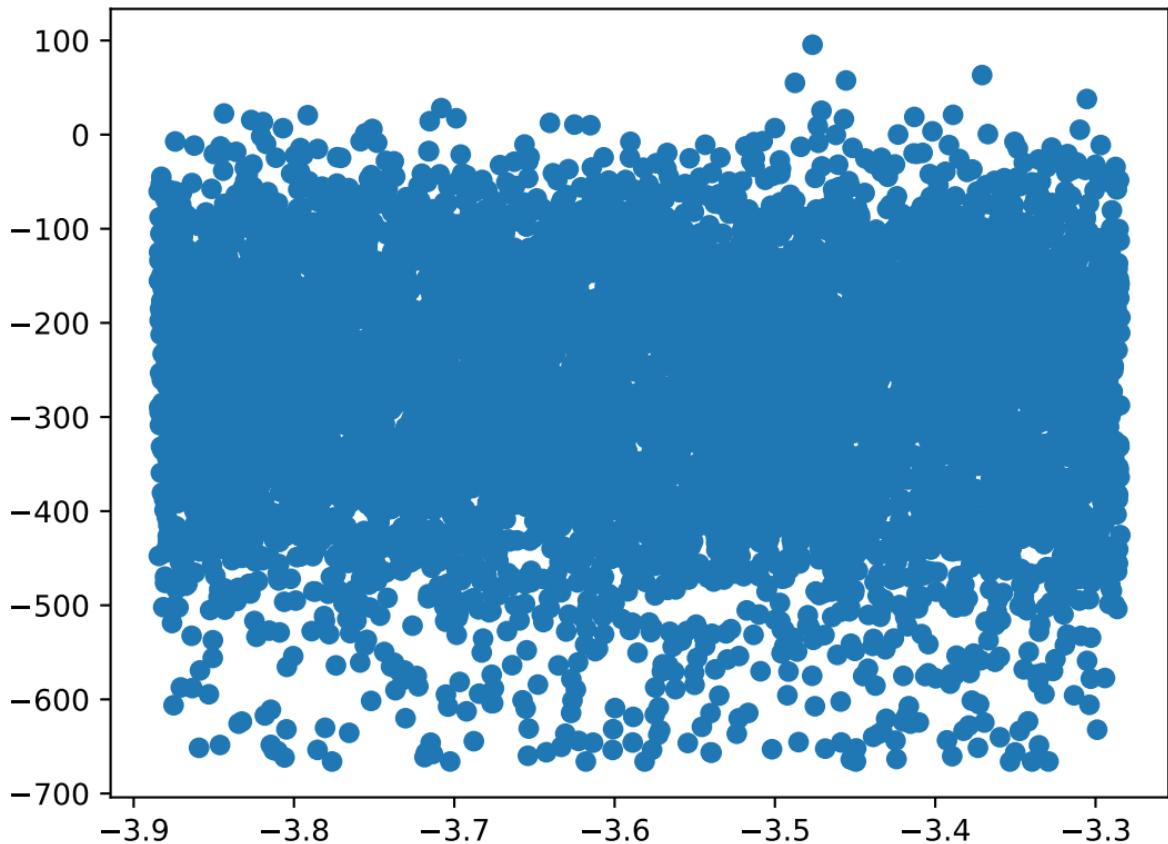
log obj func O



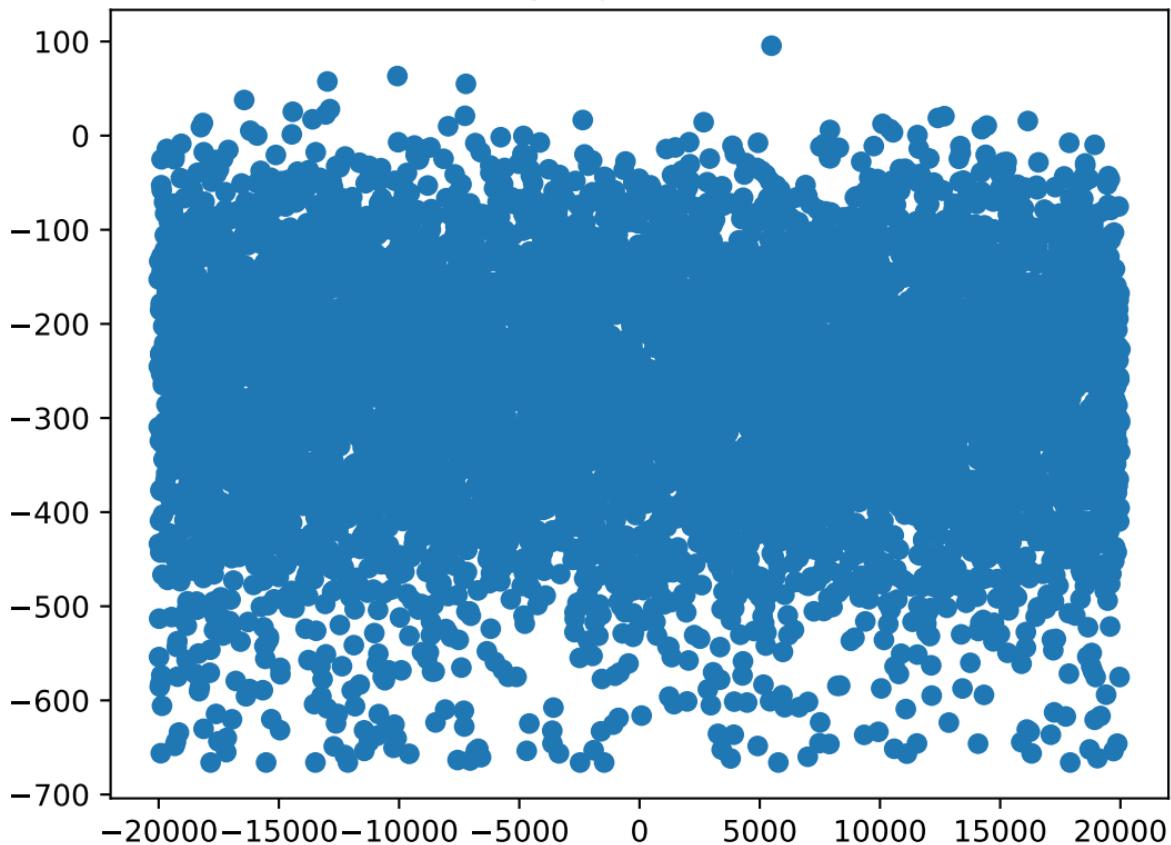
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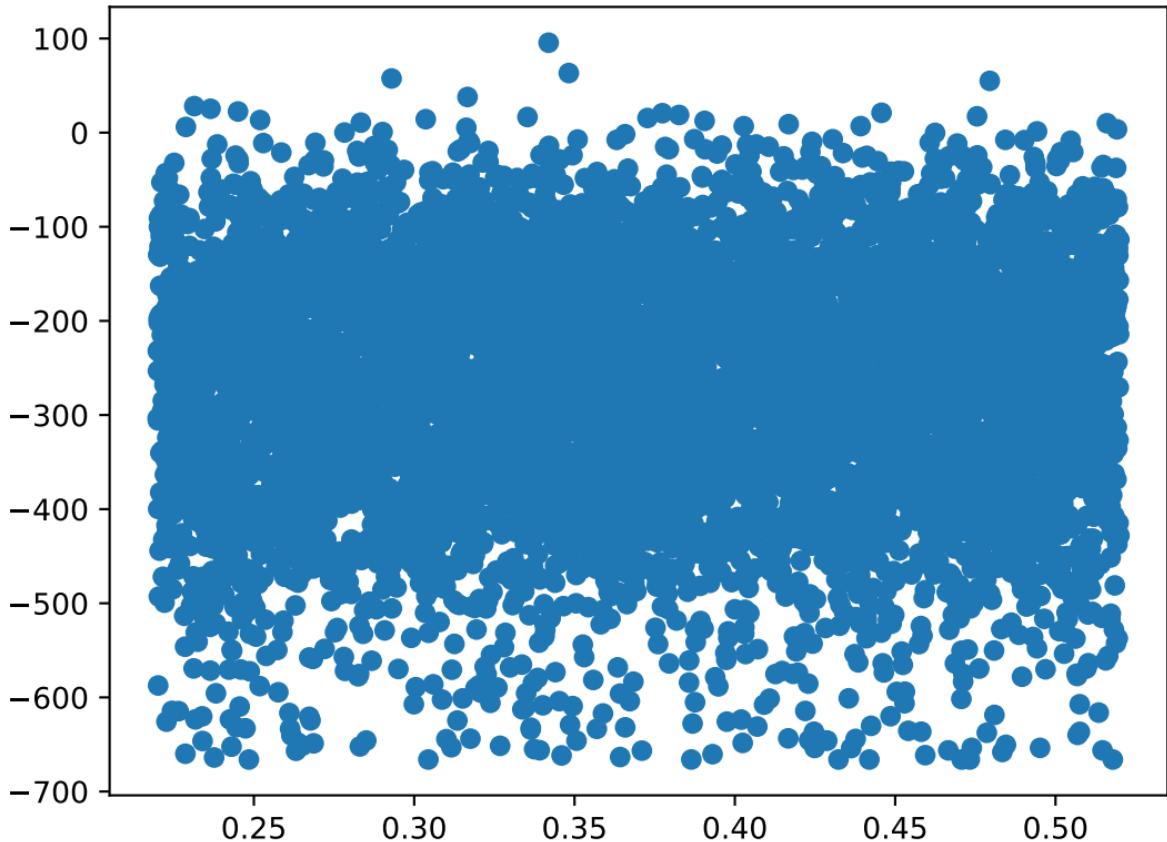
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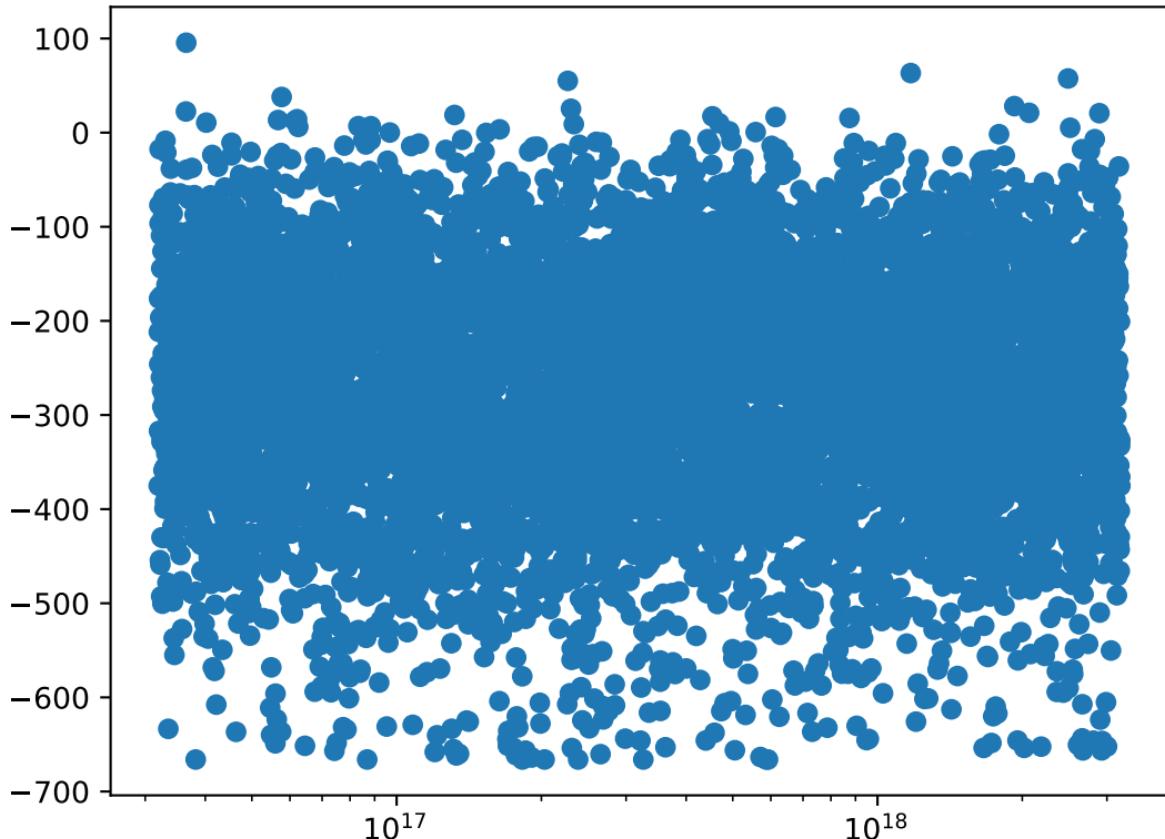
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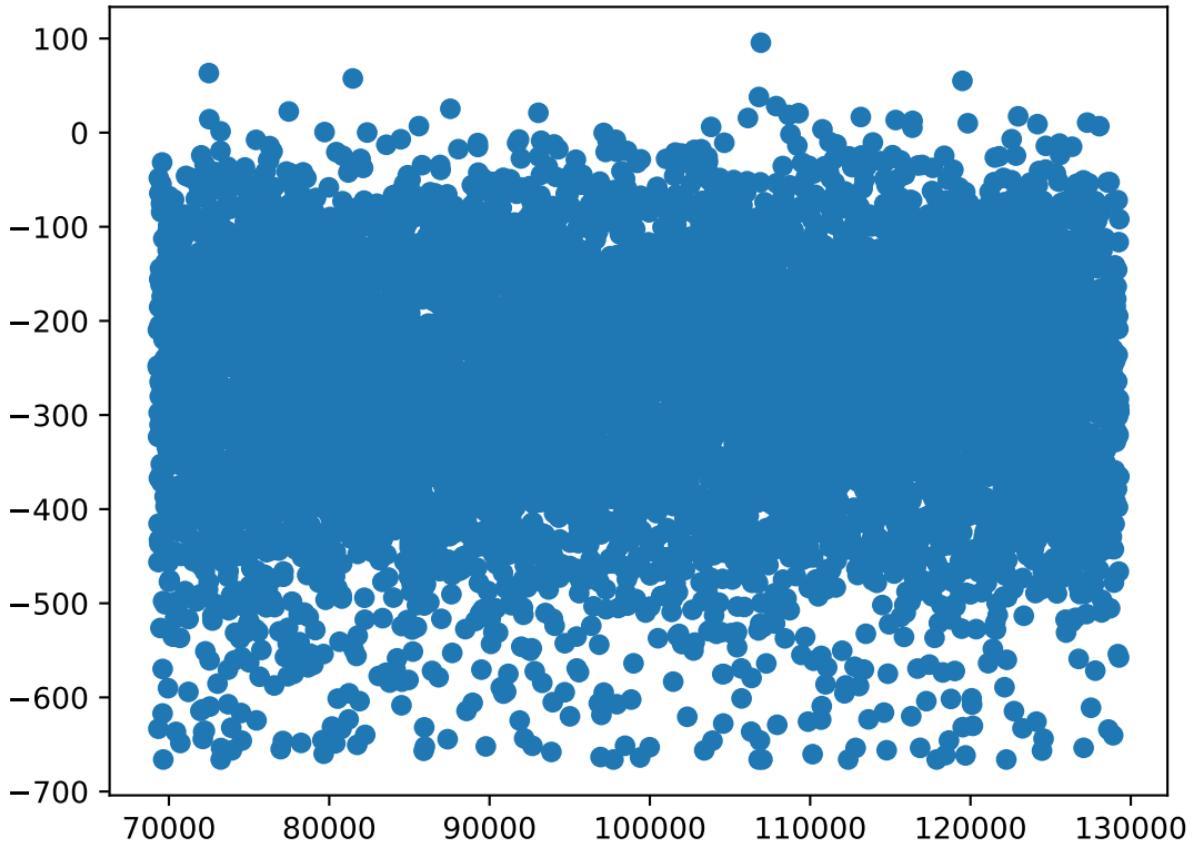
log obj func low Surface_Abstraction/Abstracting;Donating/alpha



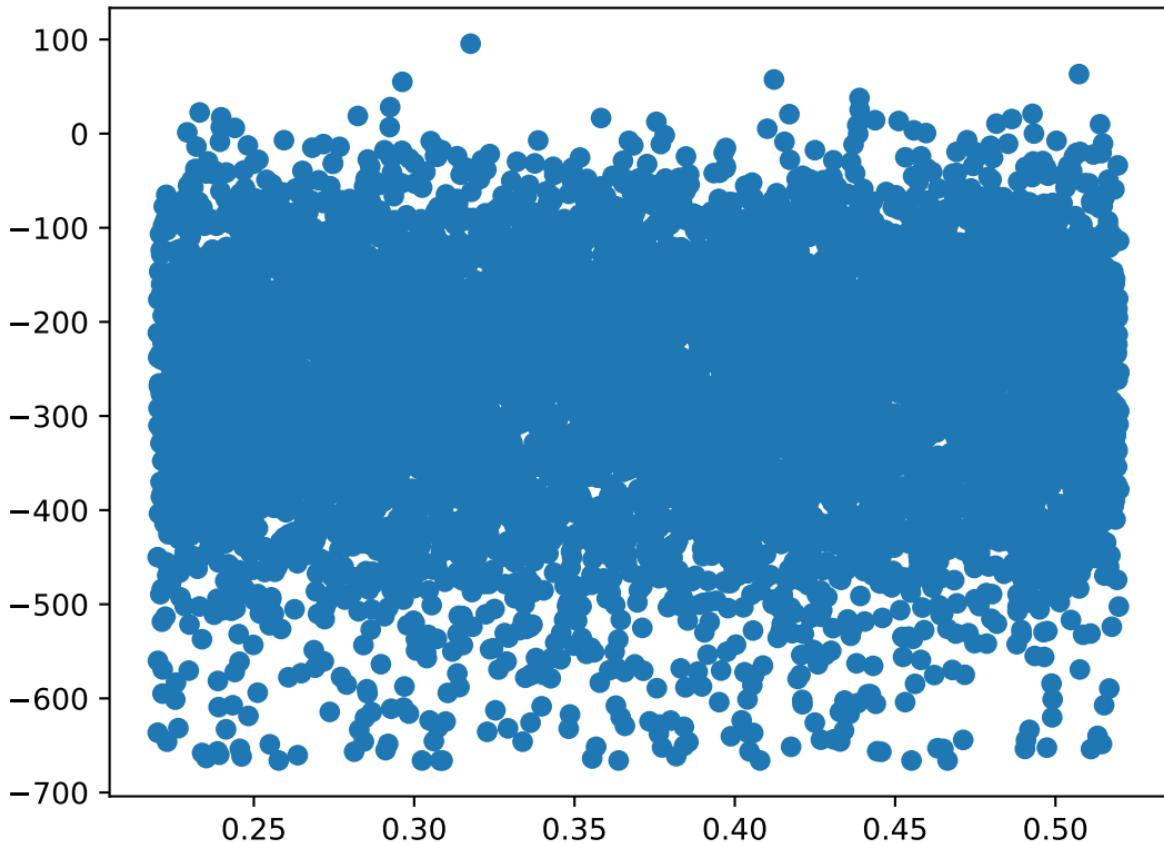
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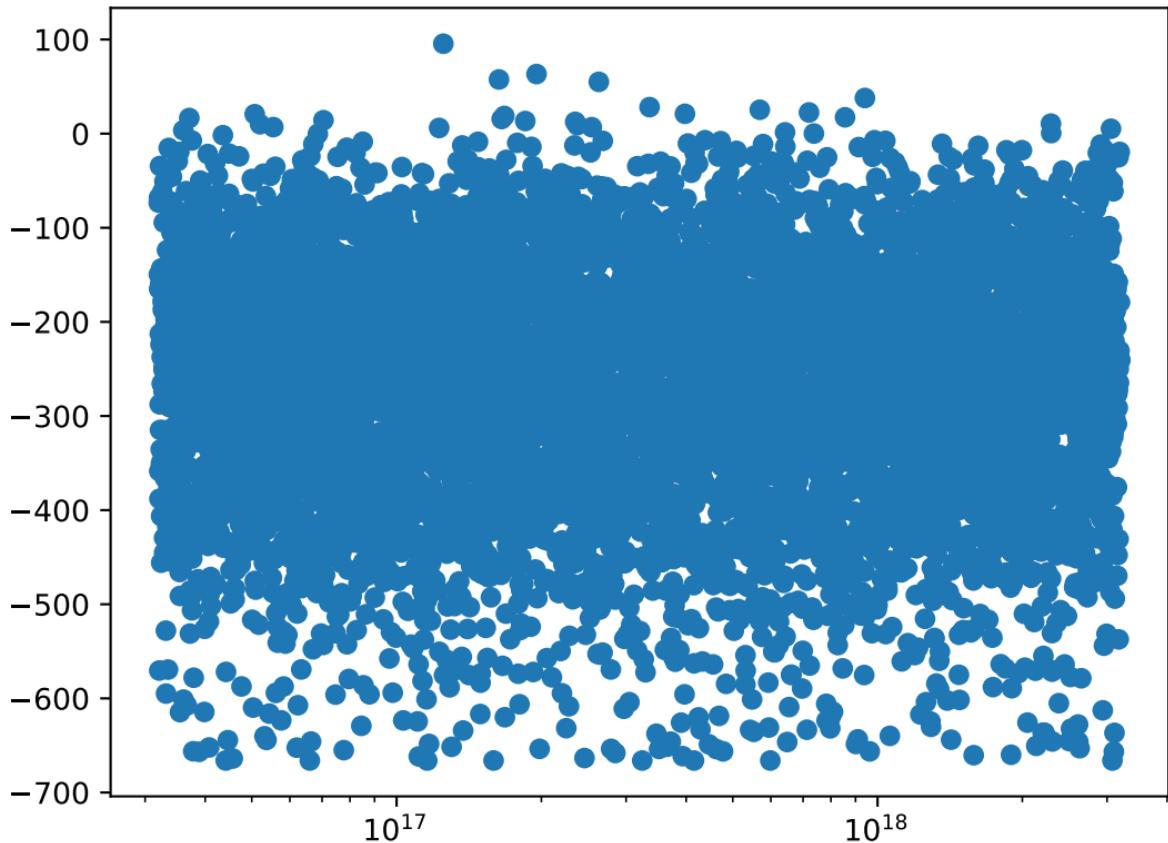
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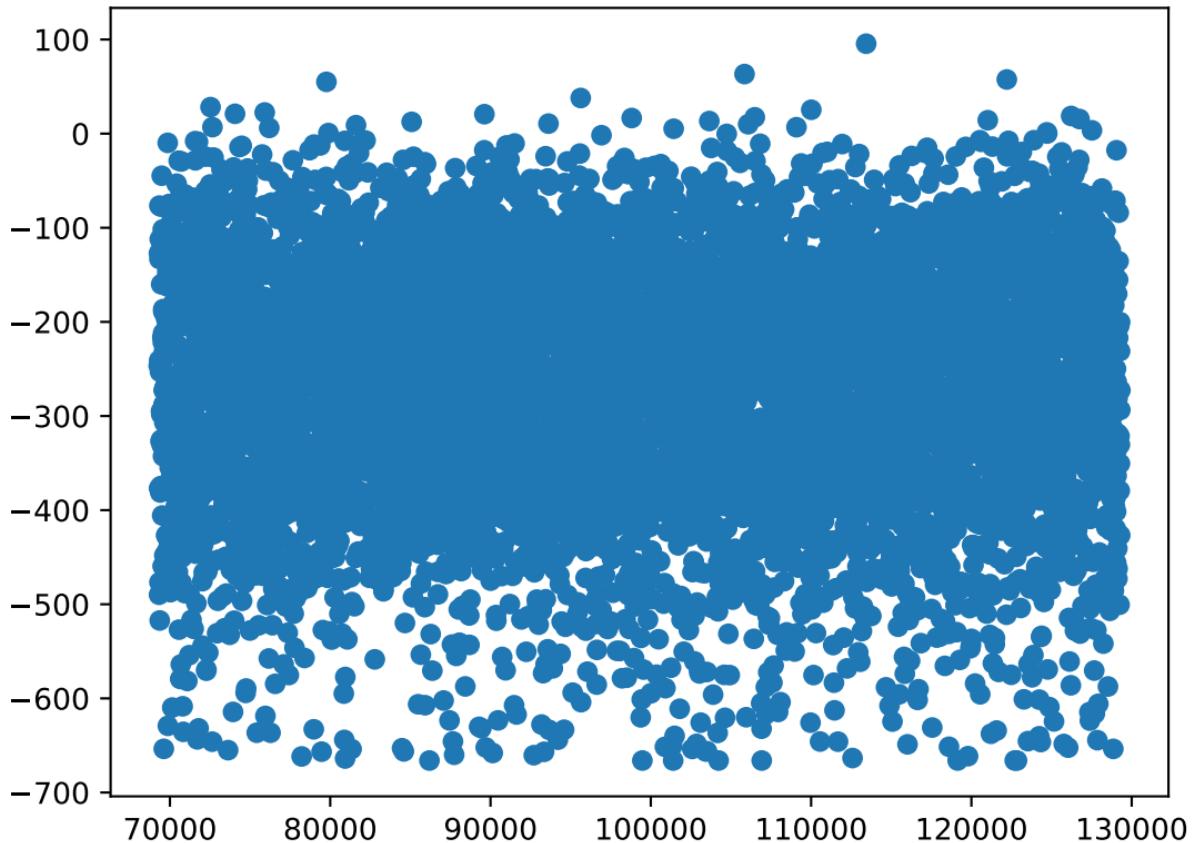
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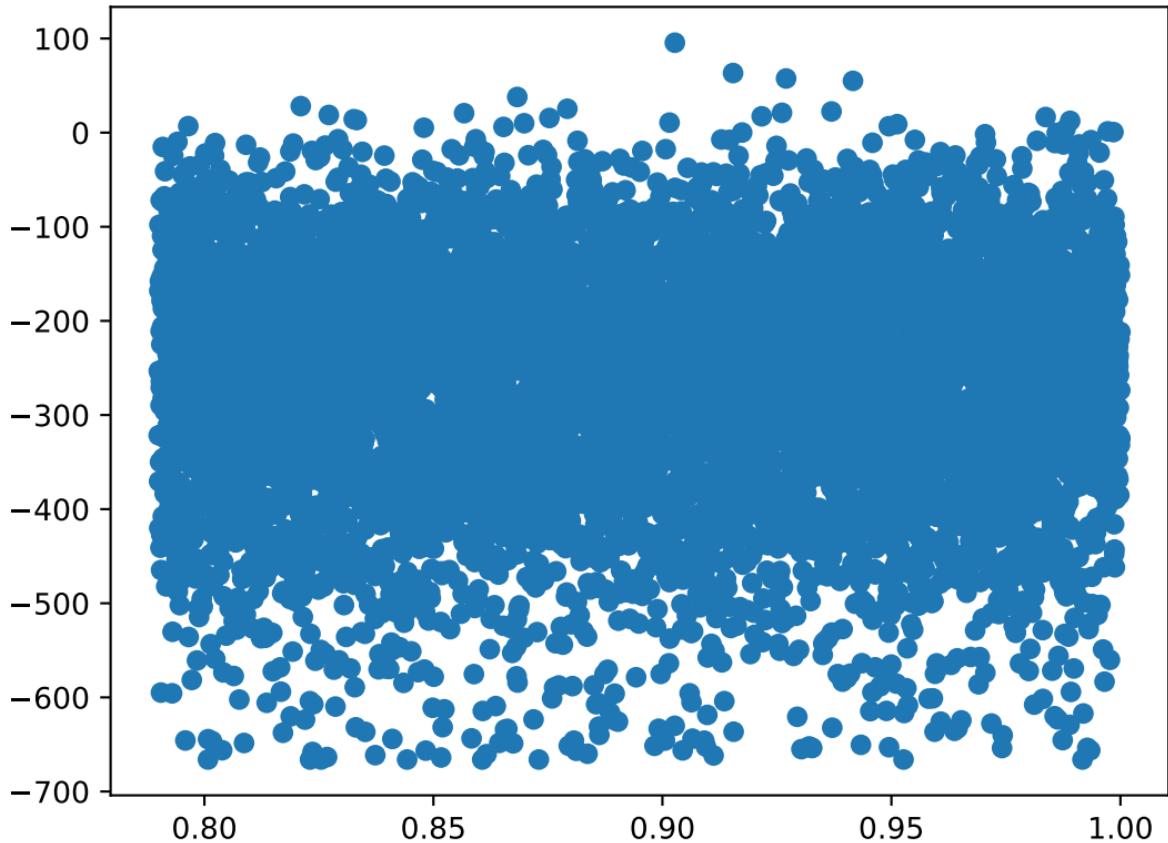
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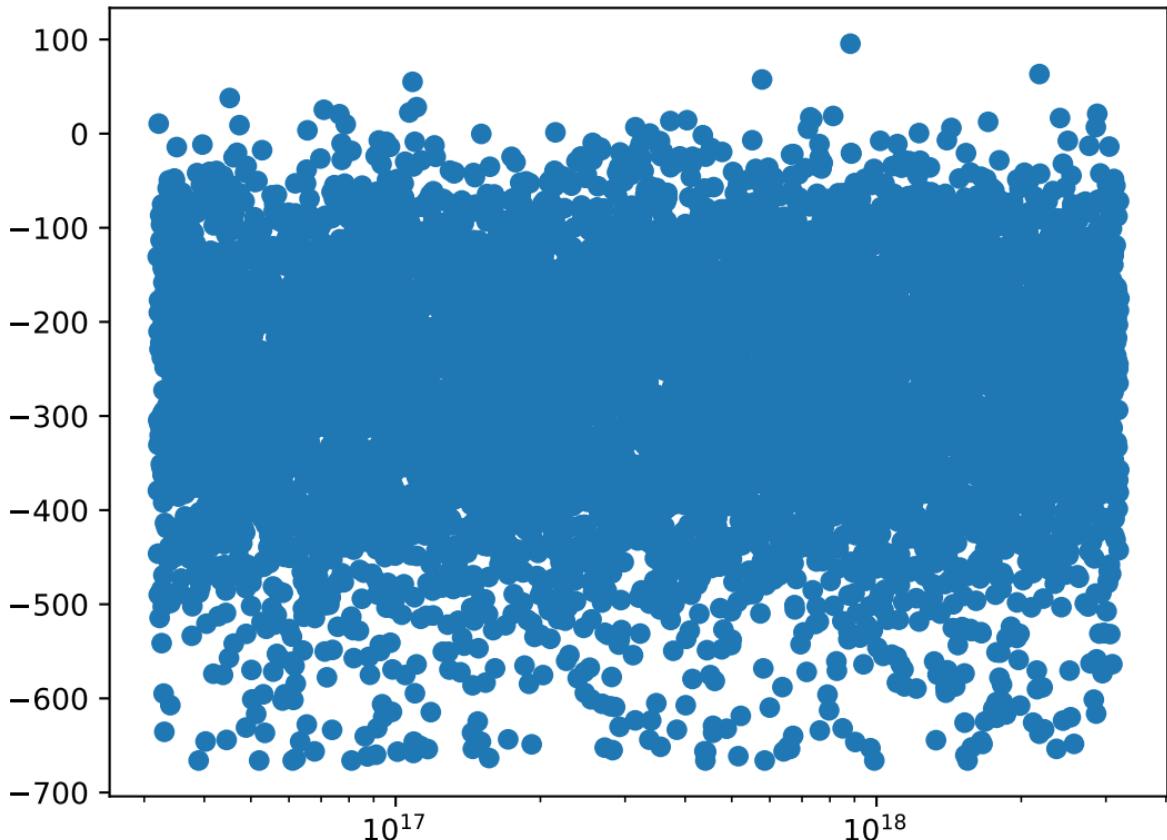
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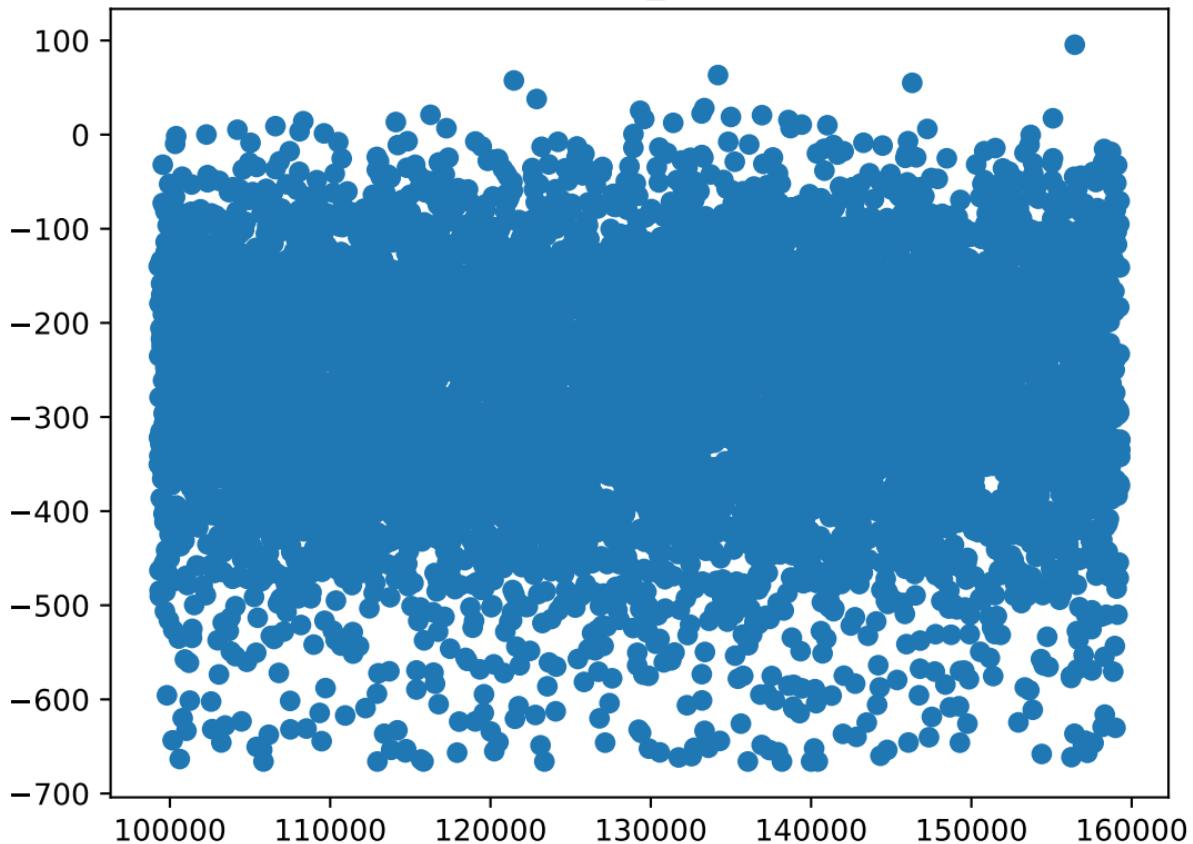
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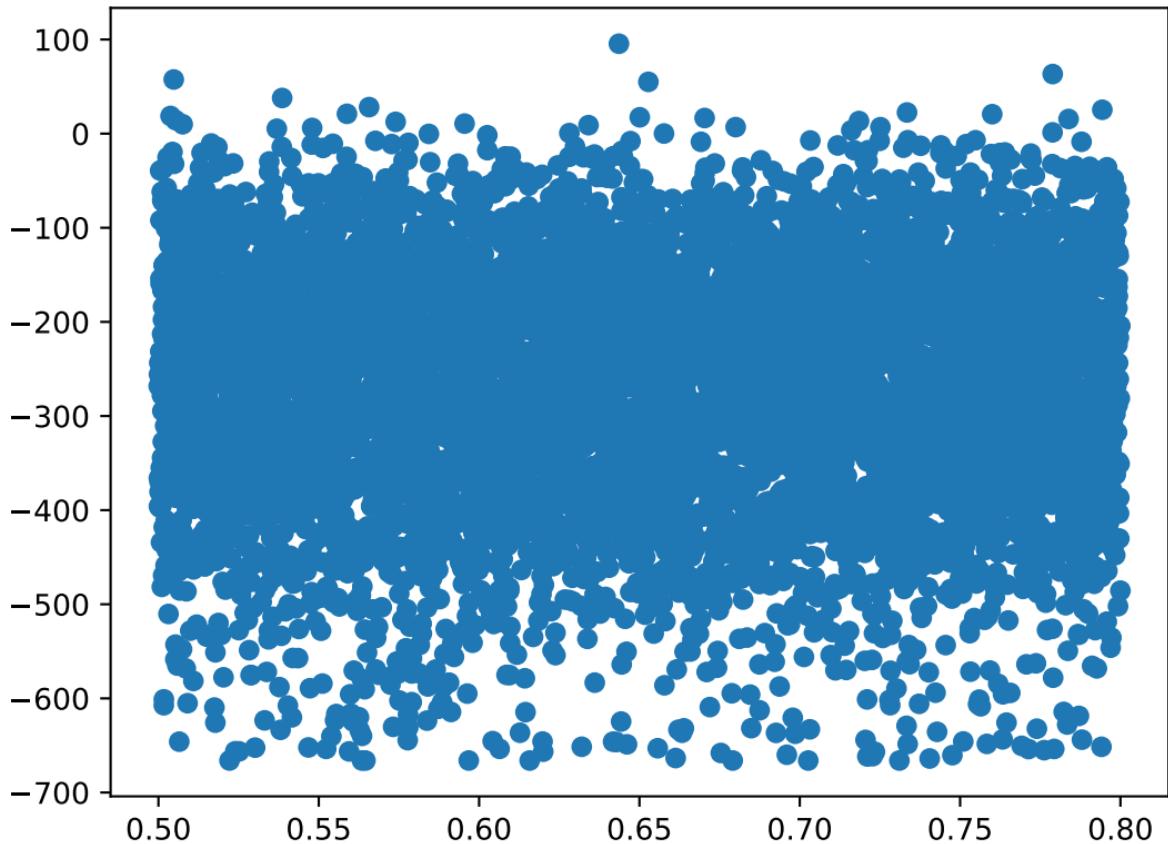
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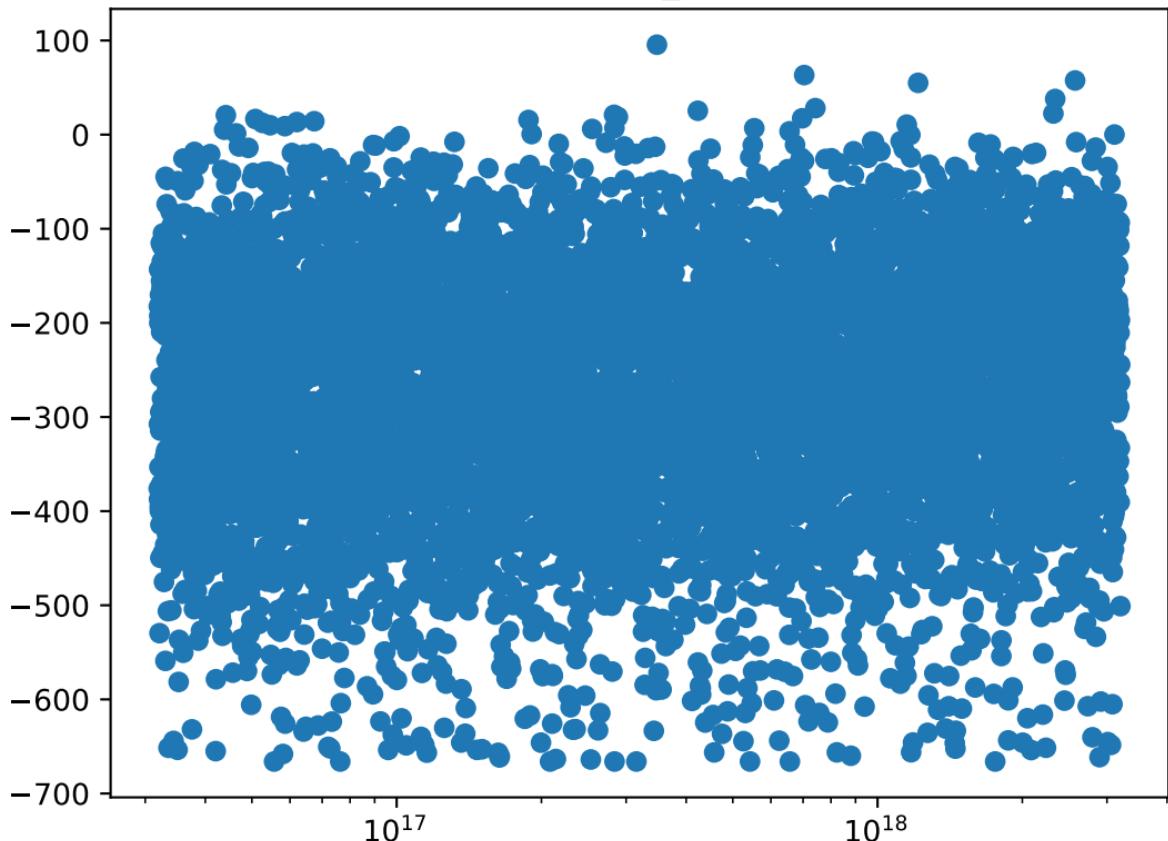
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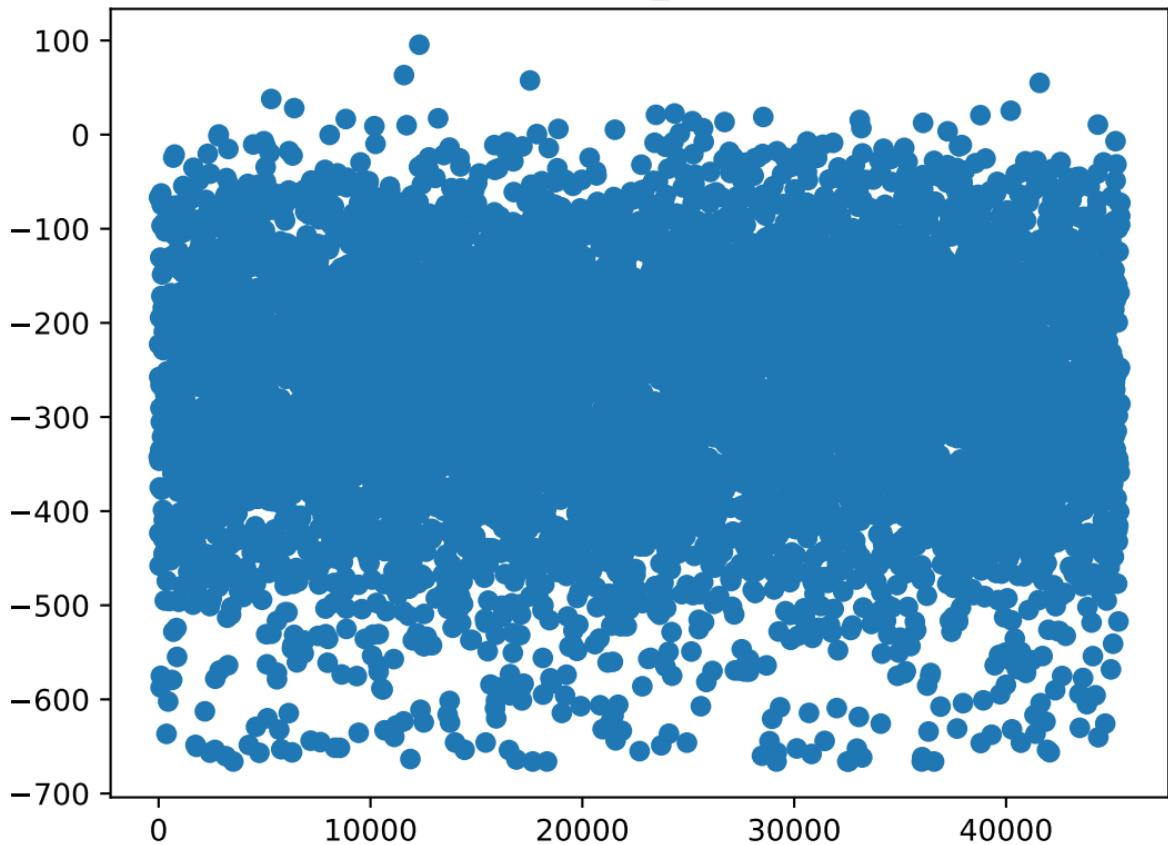
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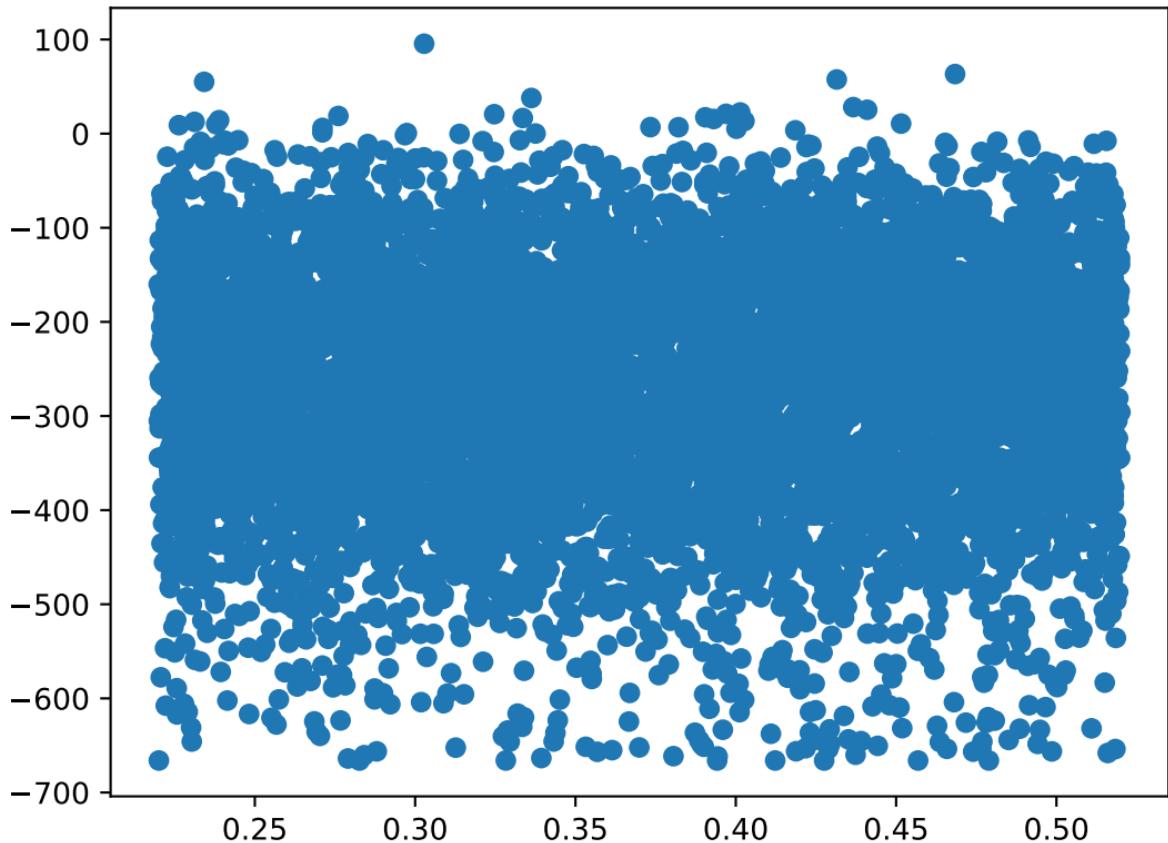
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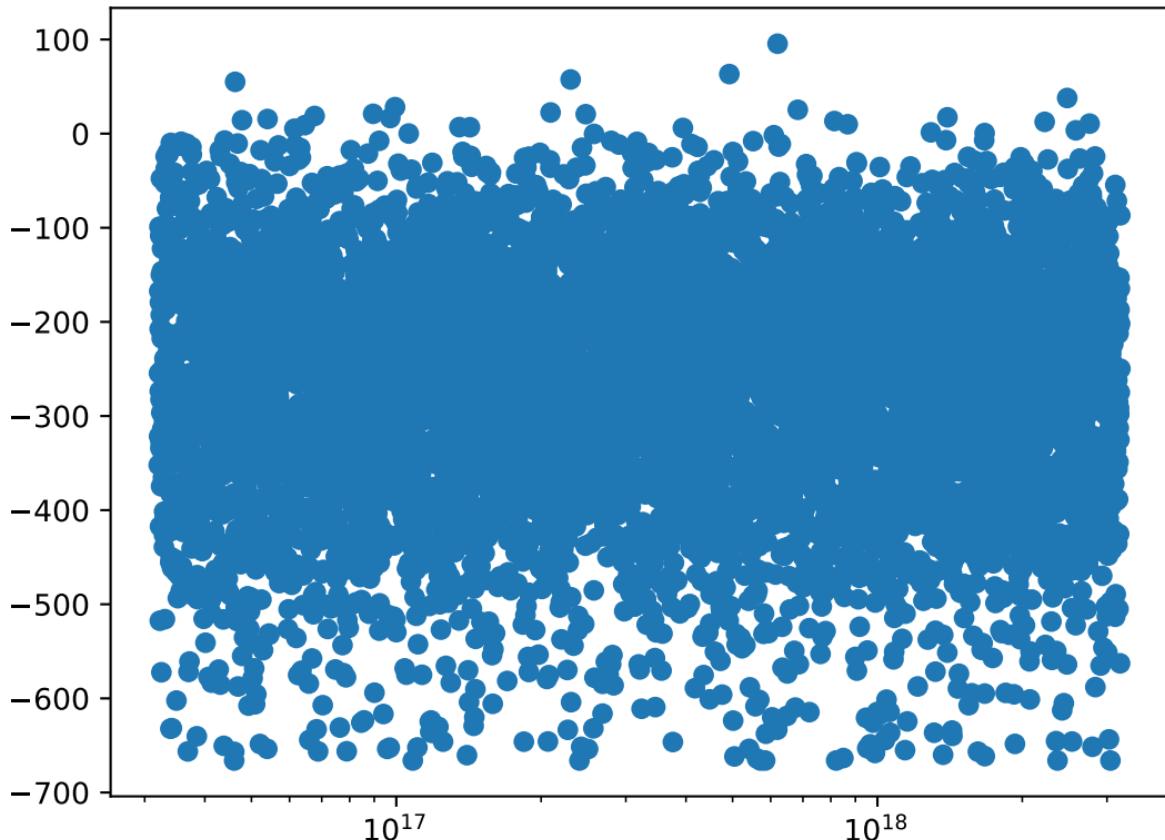
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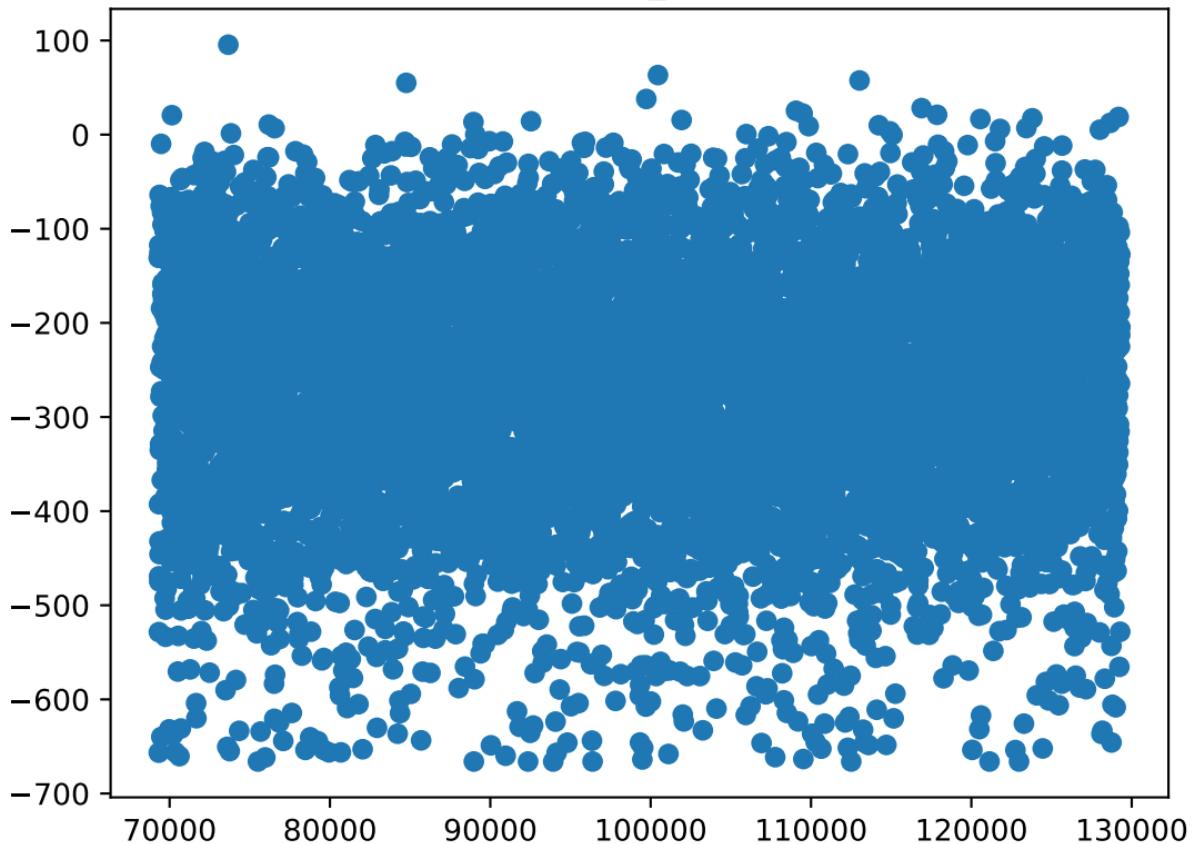
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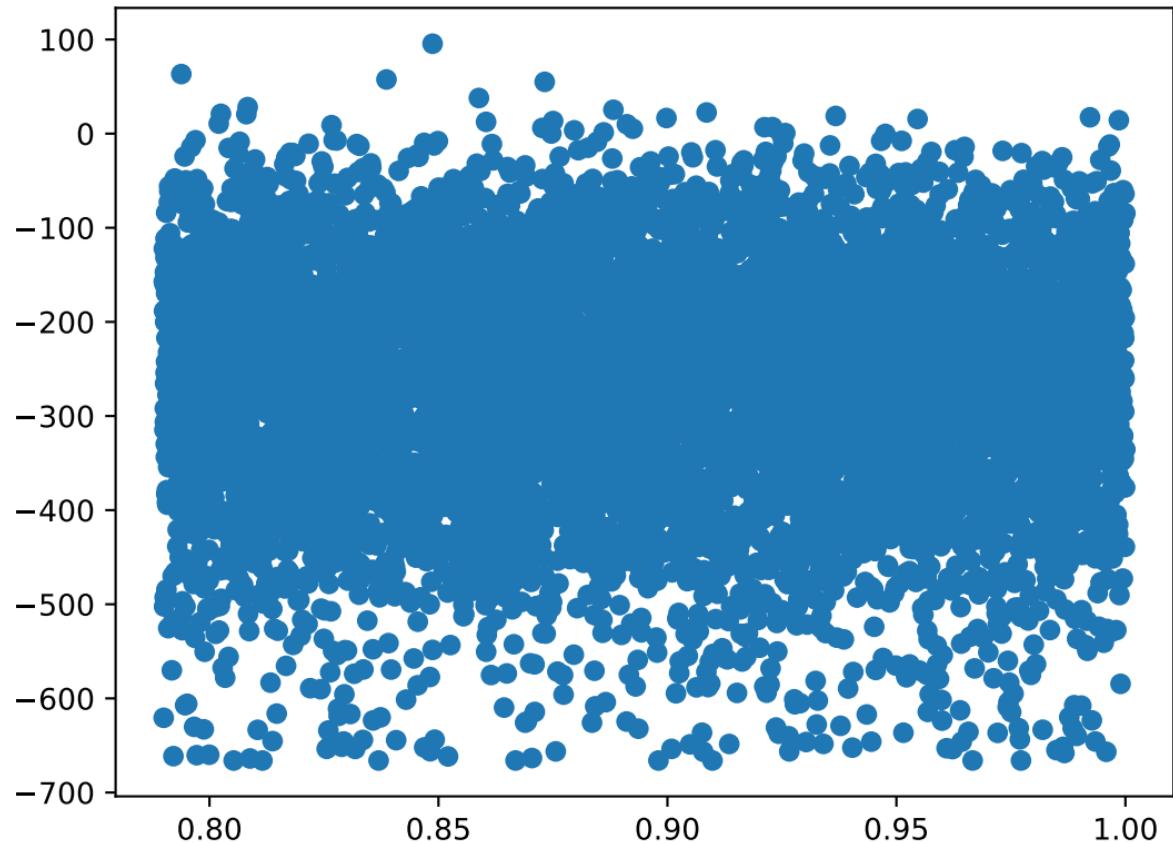
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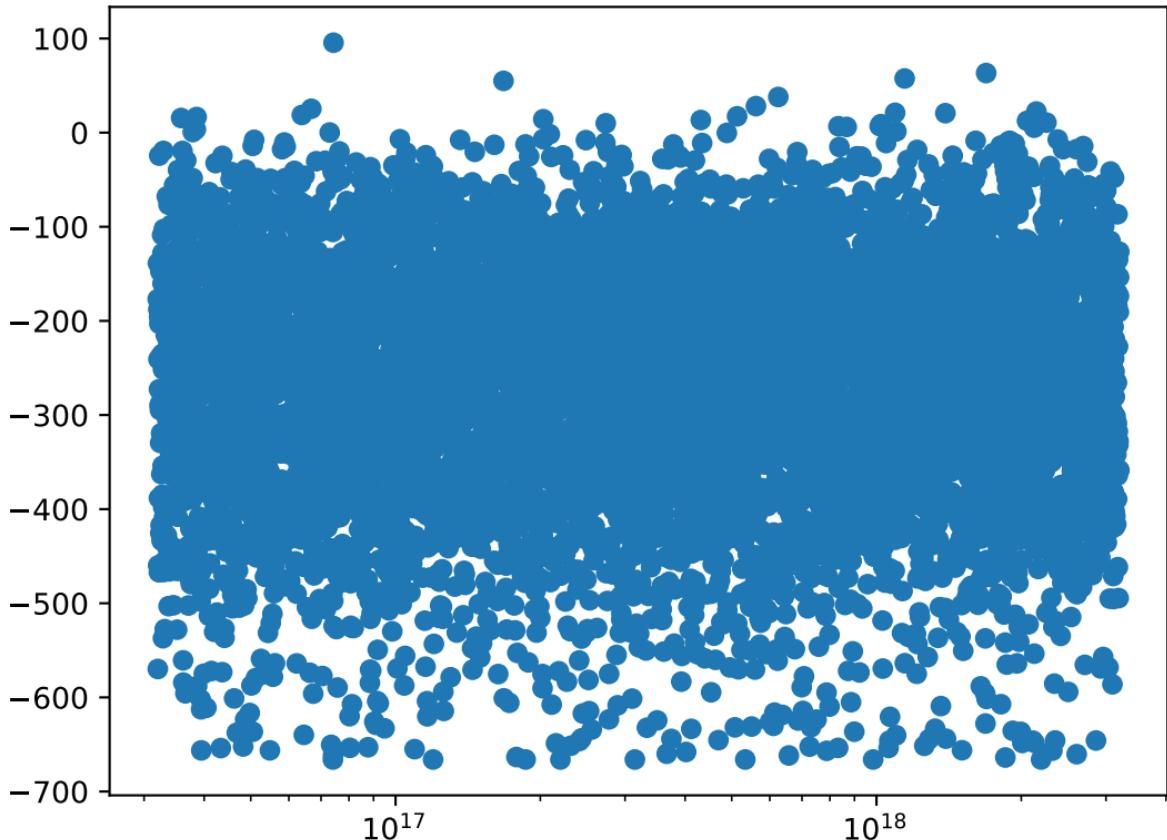
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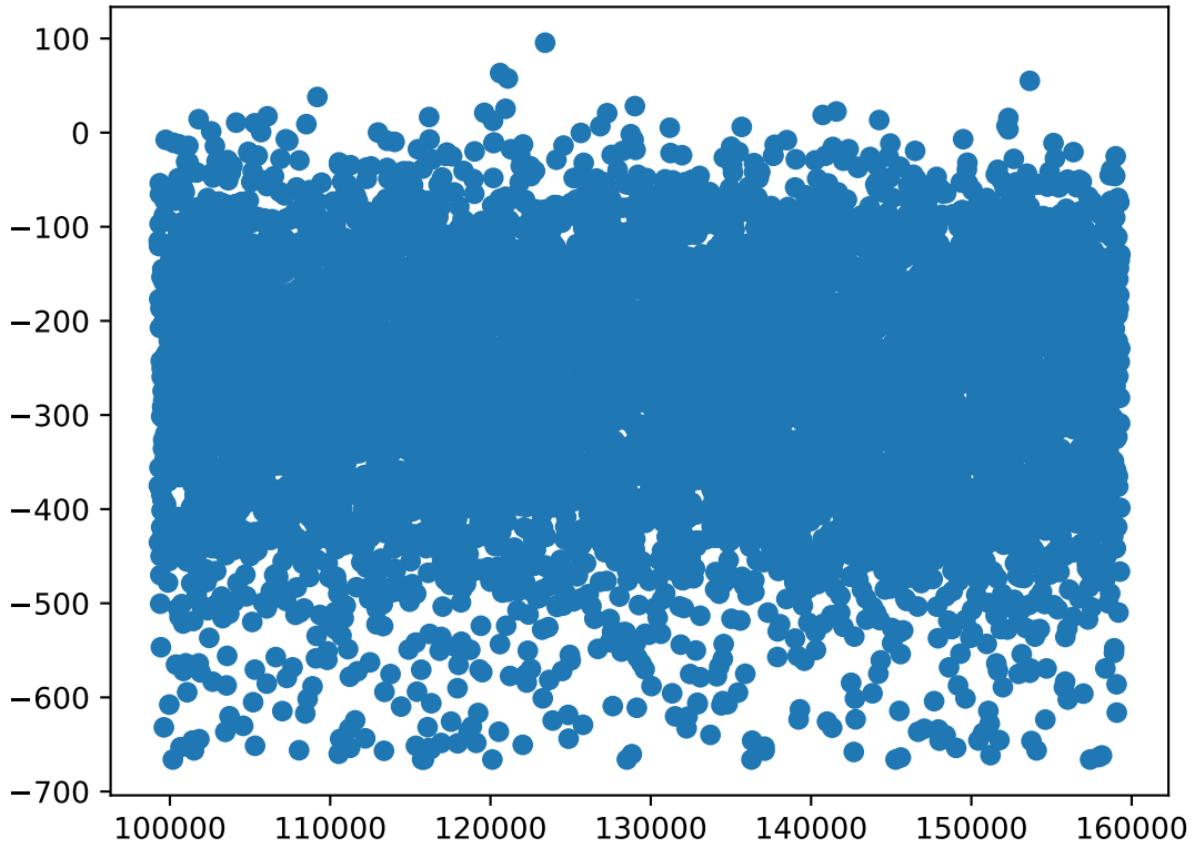
log obj func low Surface_Abstraction_Beta/Combined;Adsorbate1/alpha



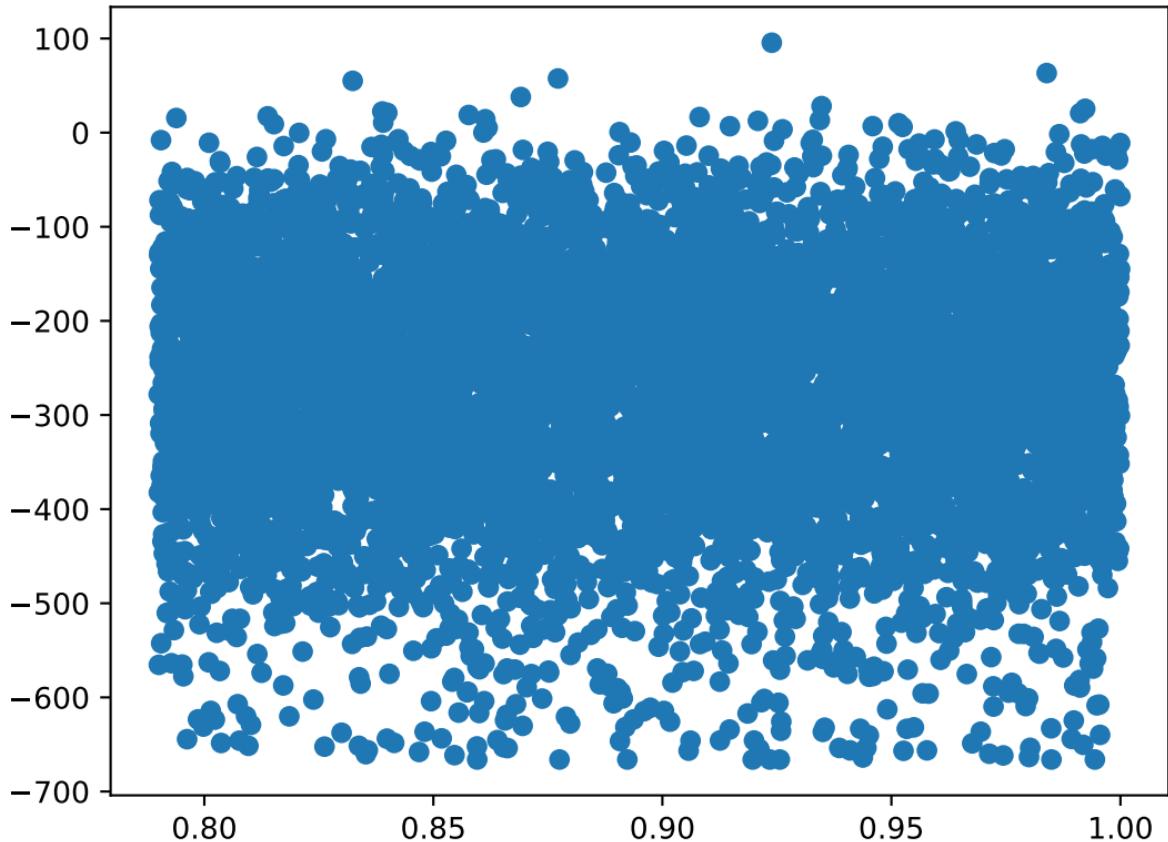
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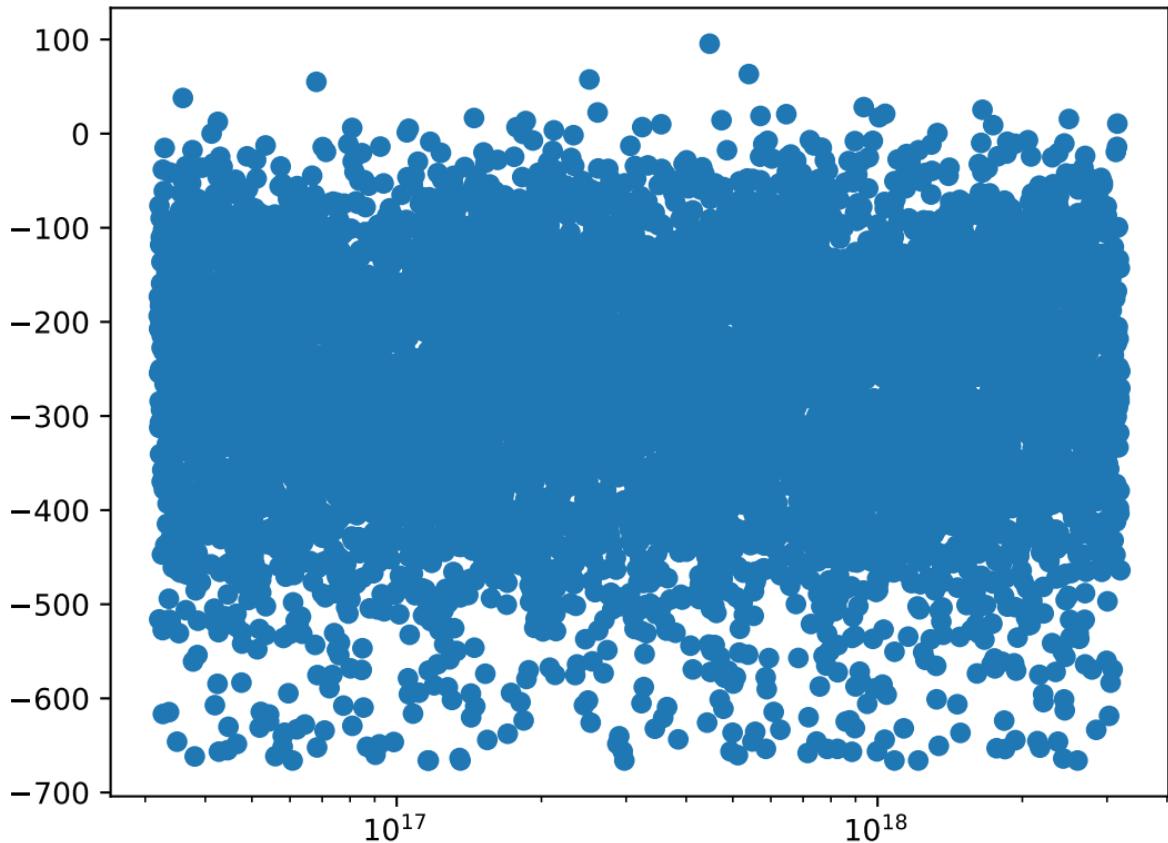
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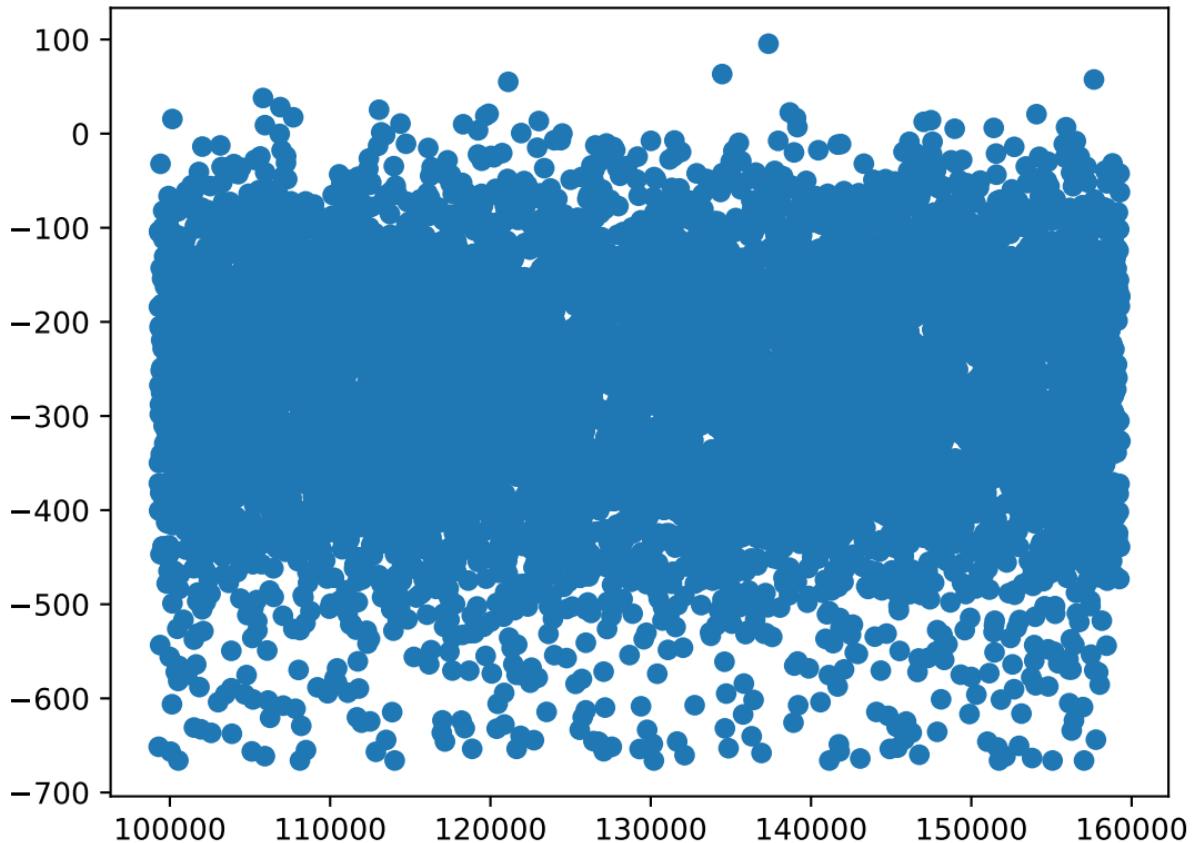
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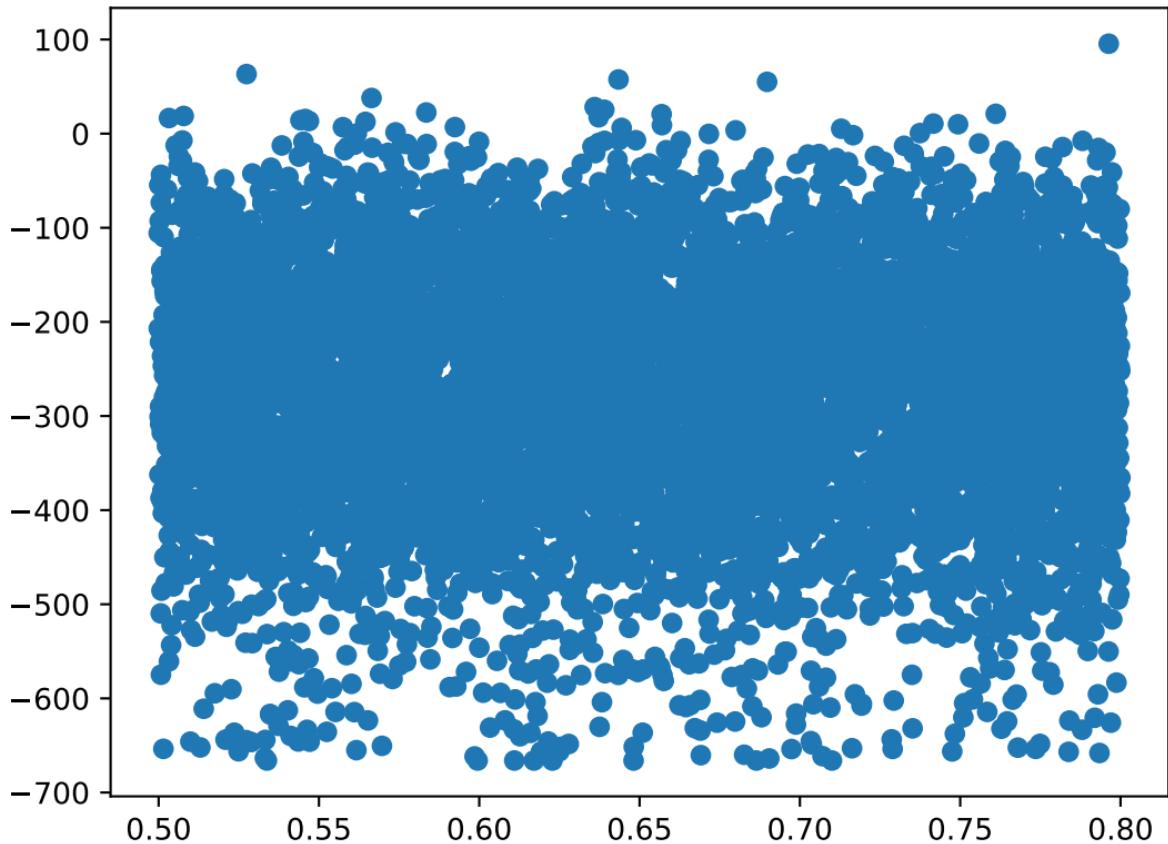
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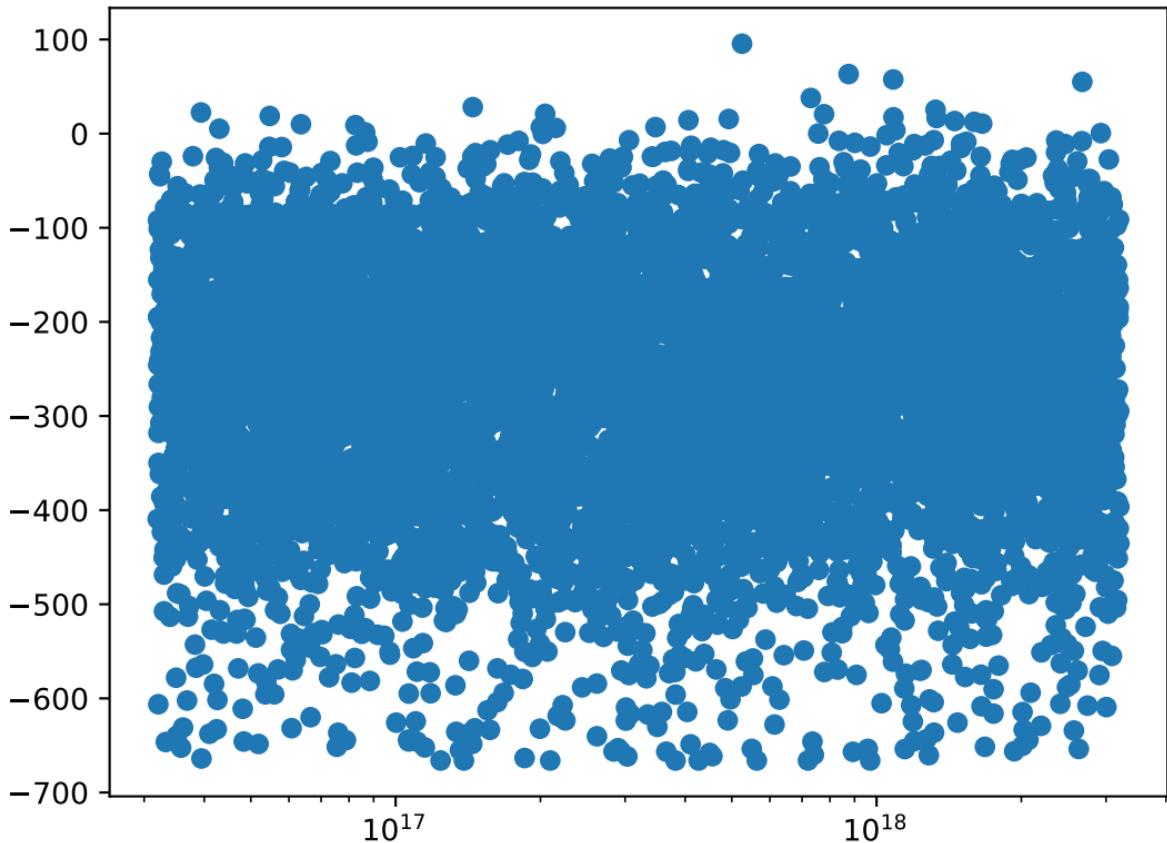
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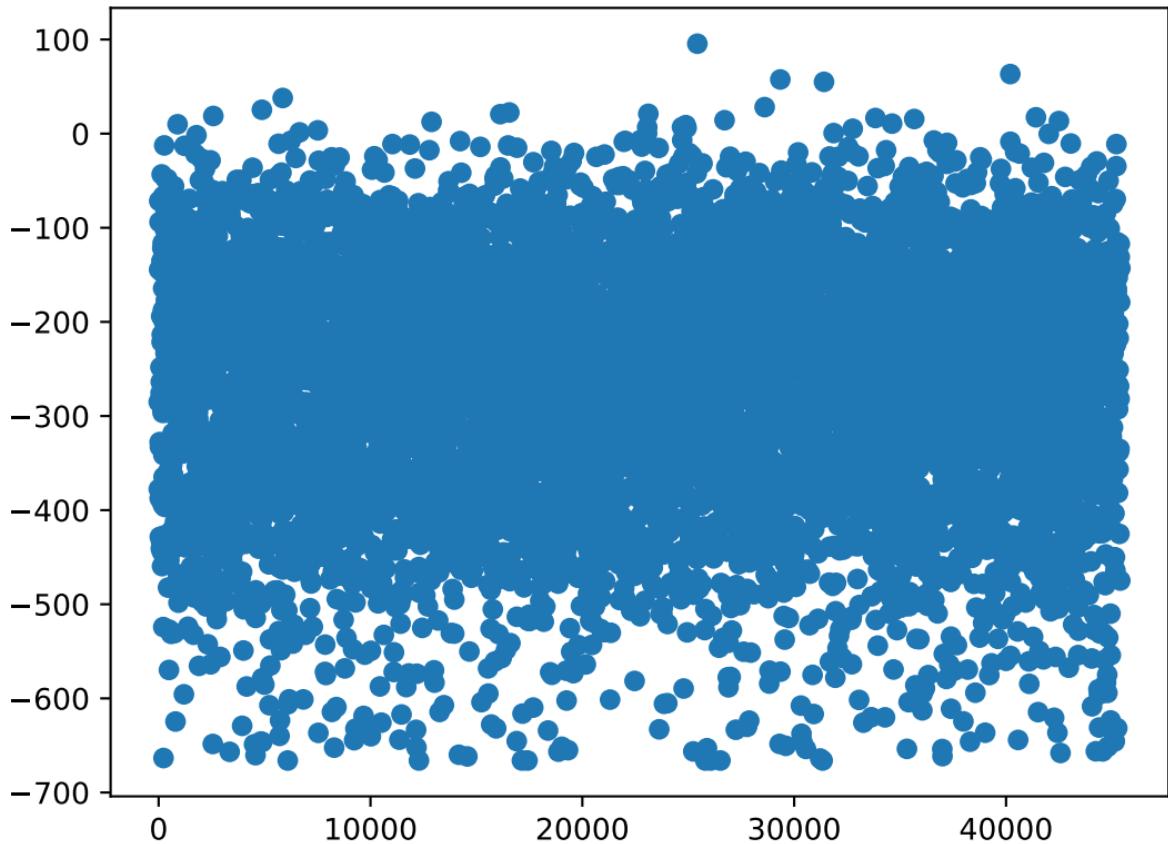
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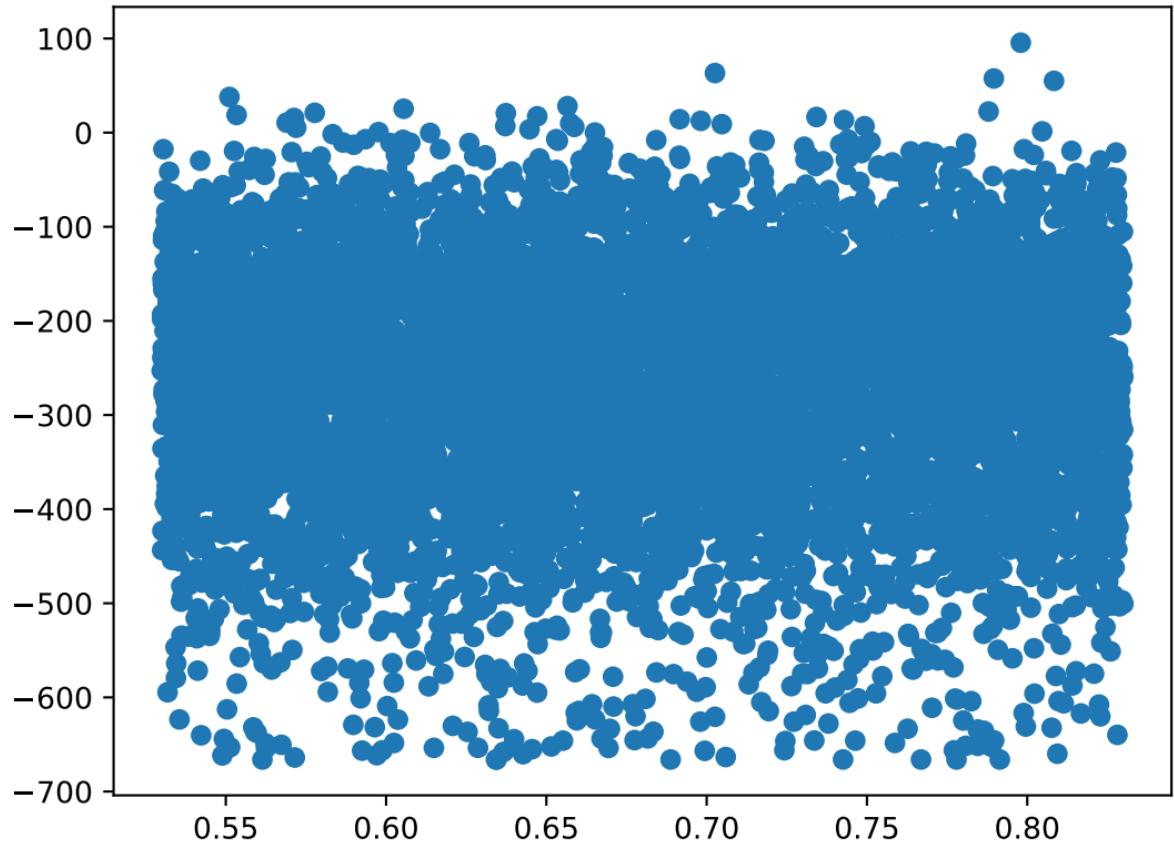
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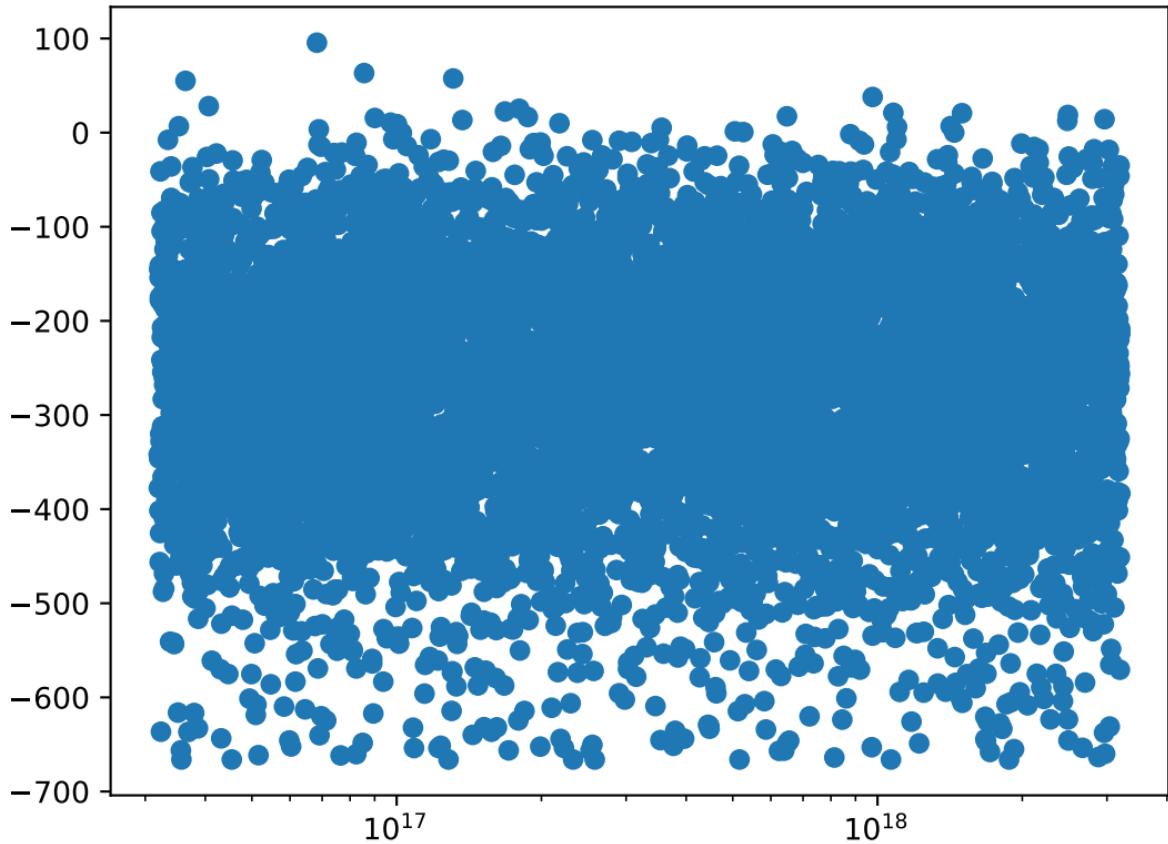
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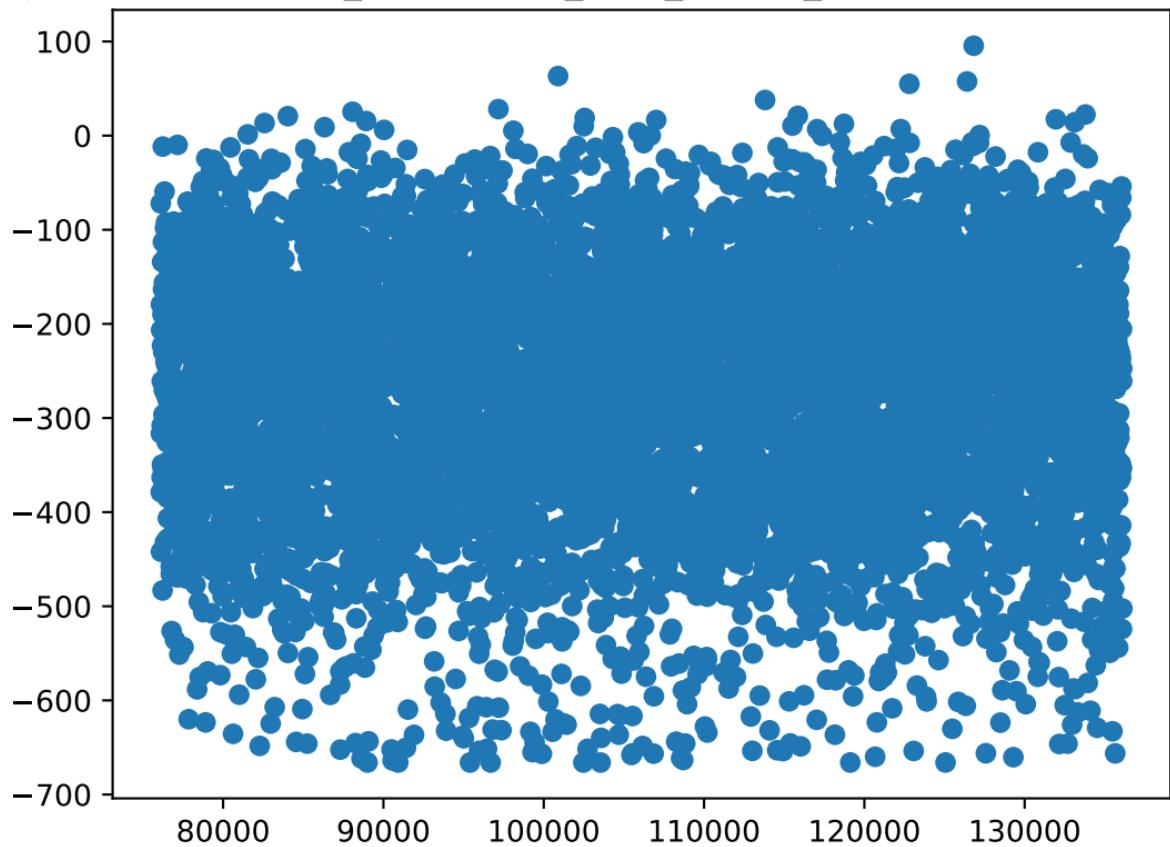
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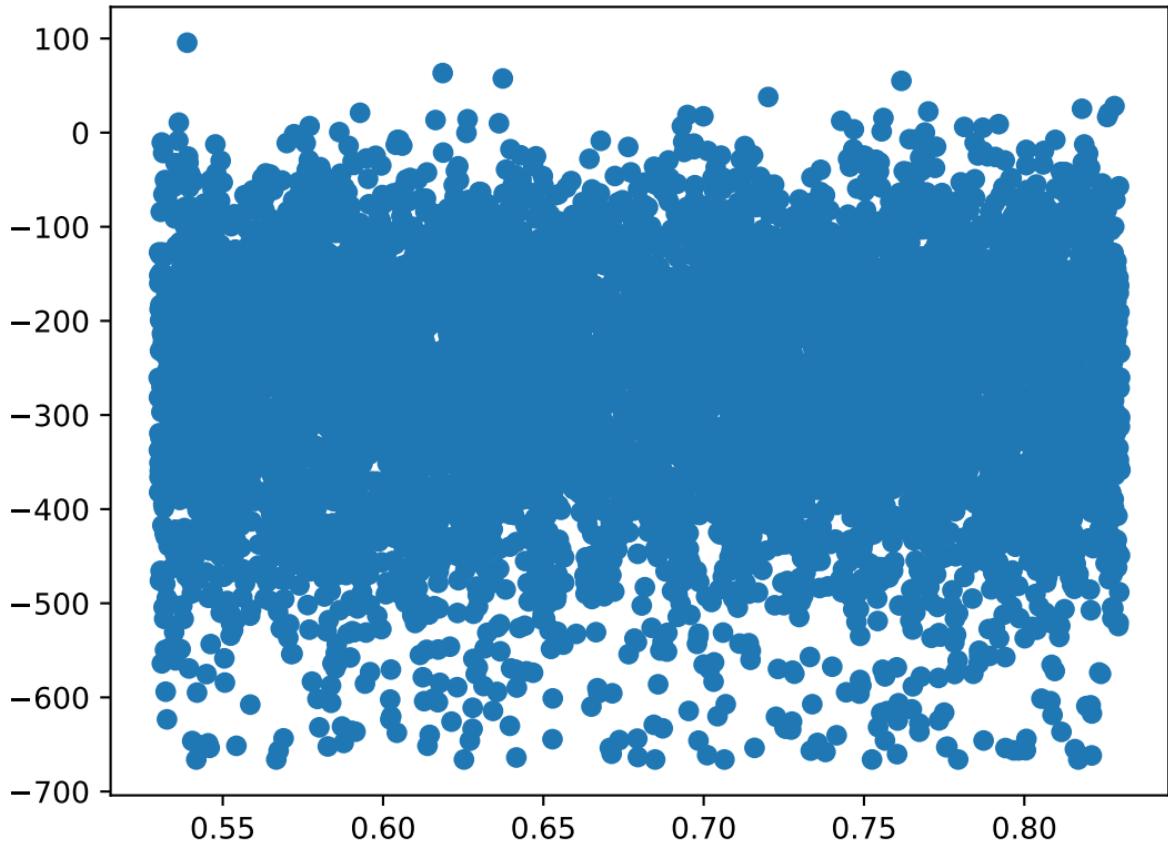
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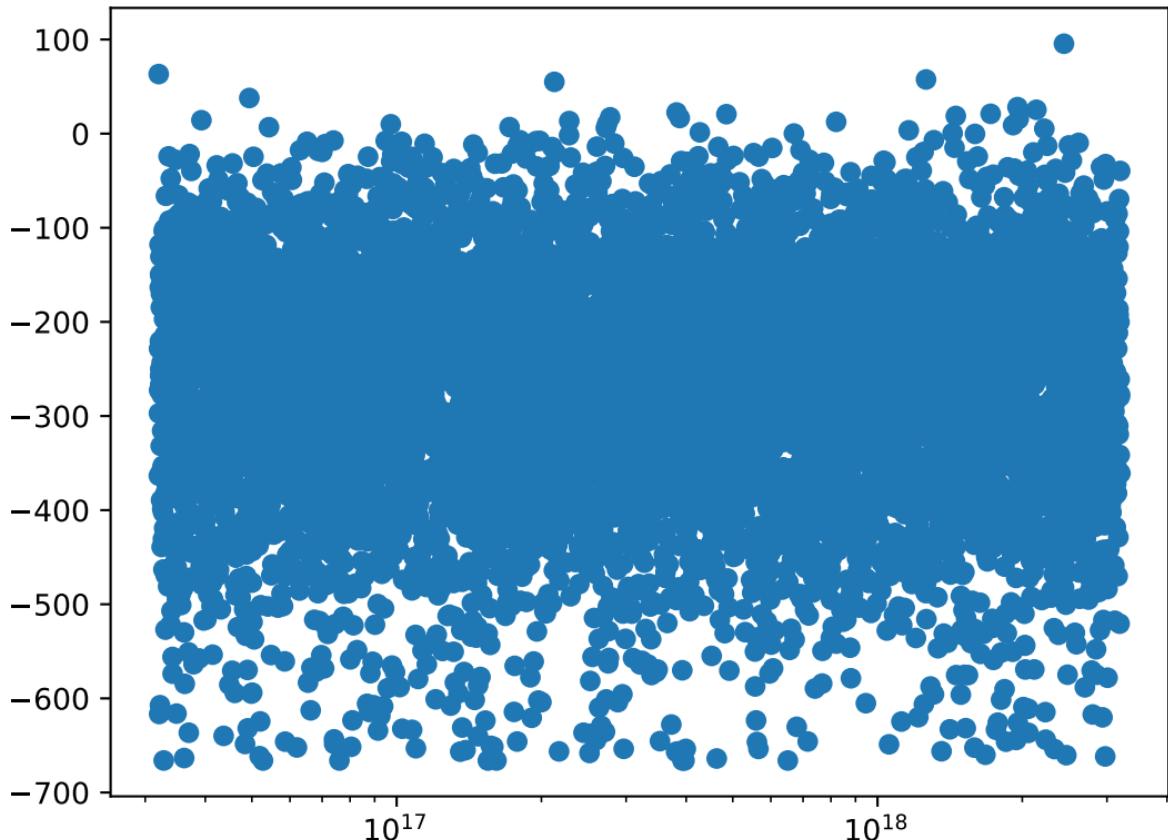
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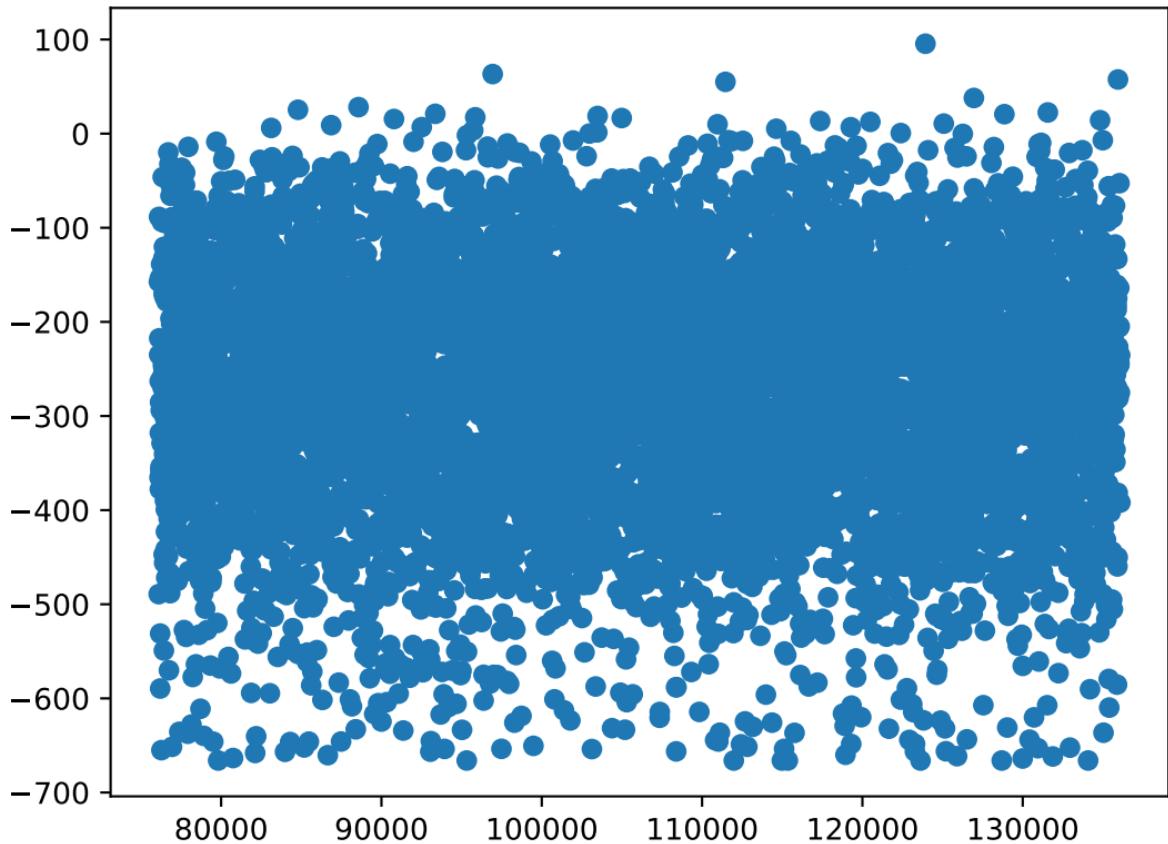
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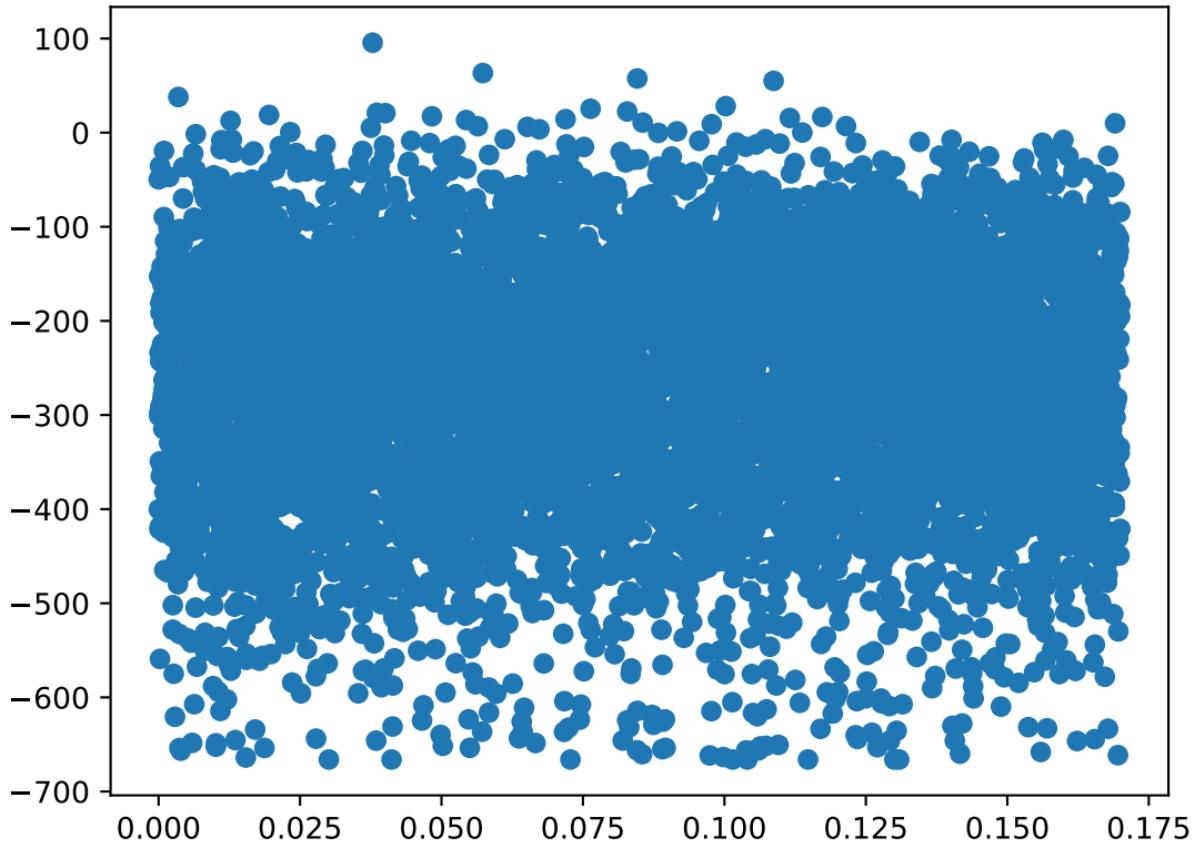
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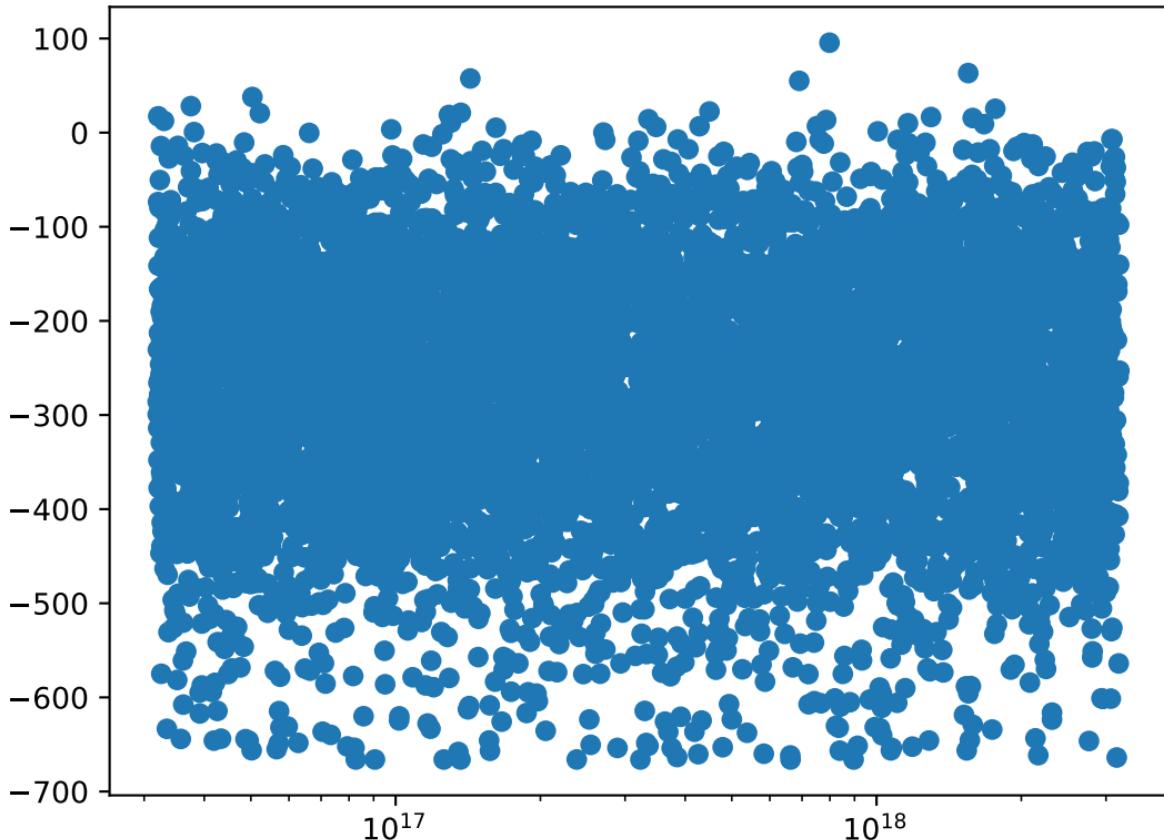
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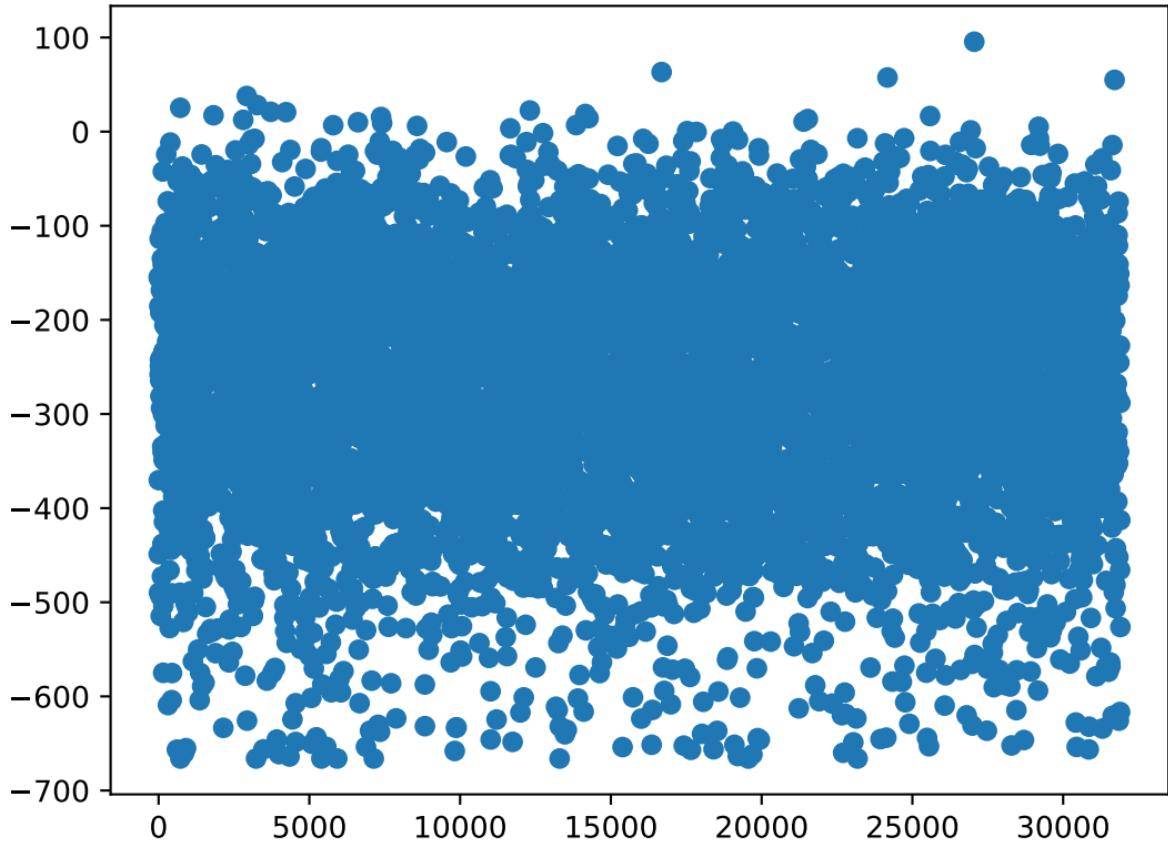
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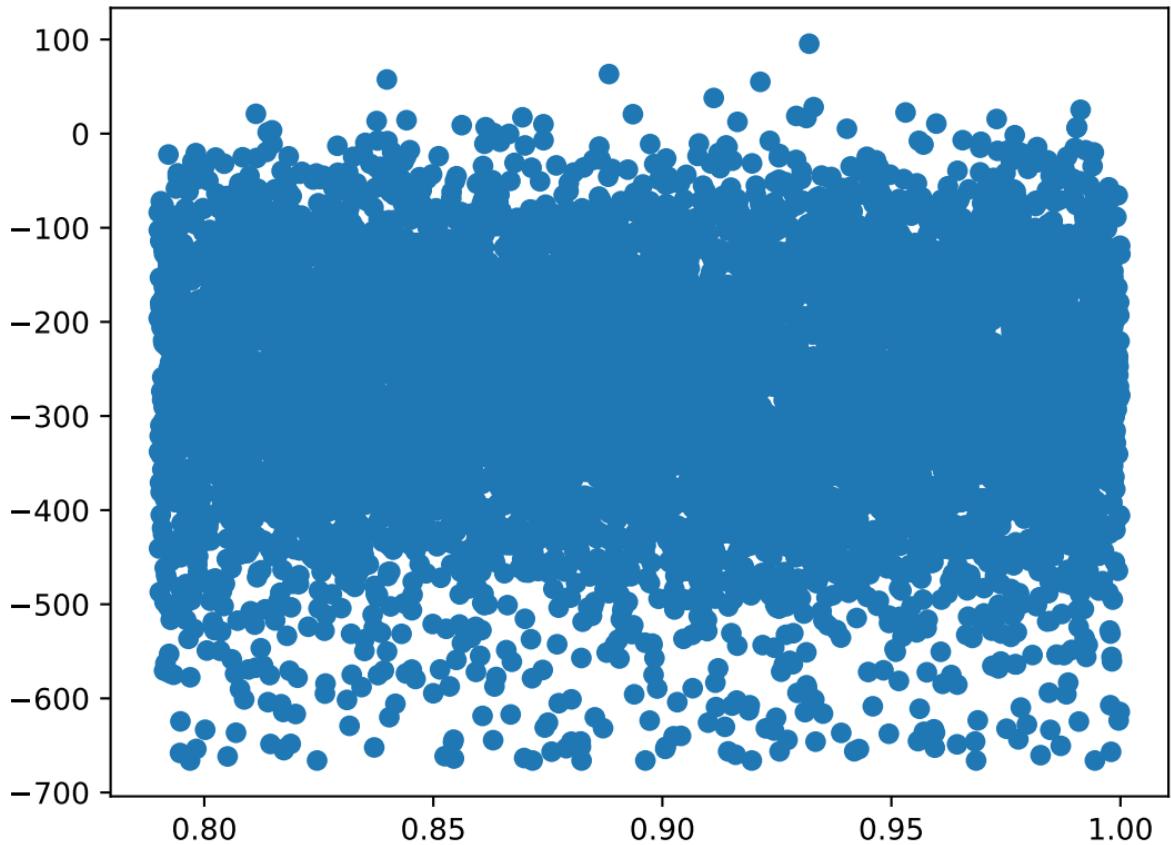
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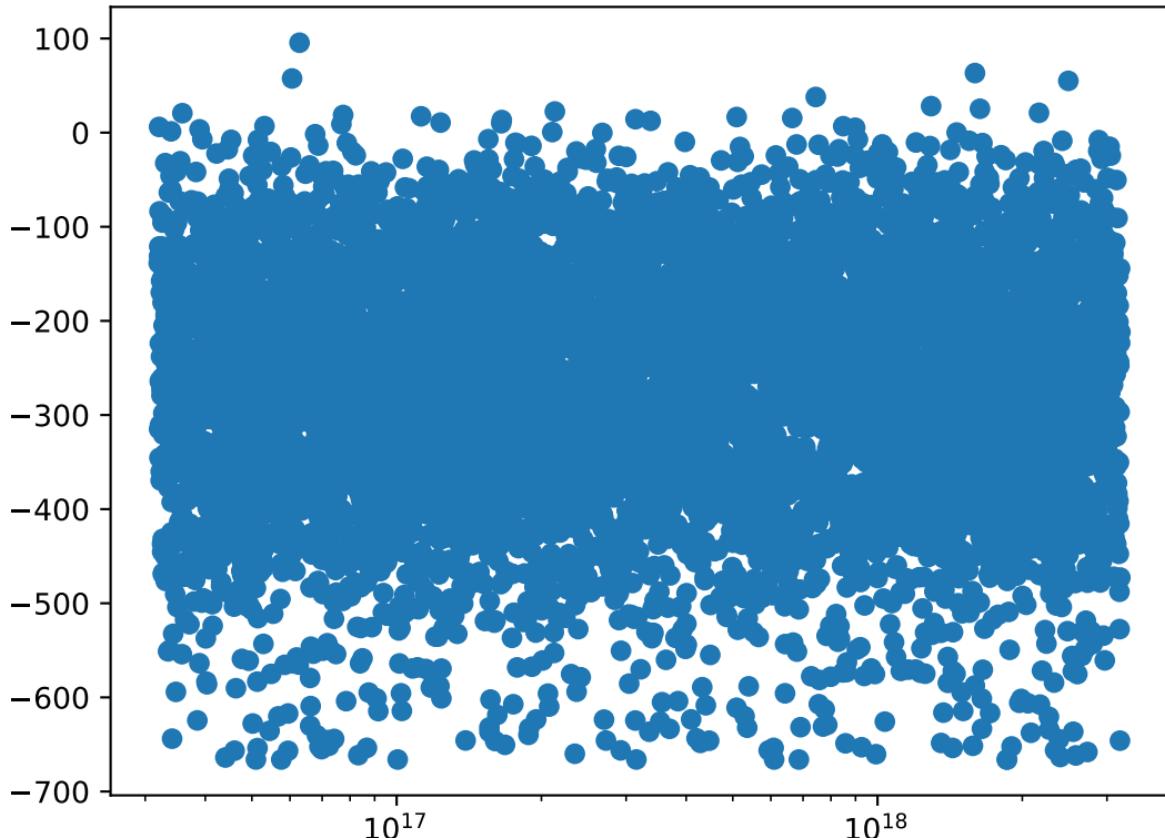
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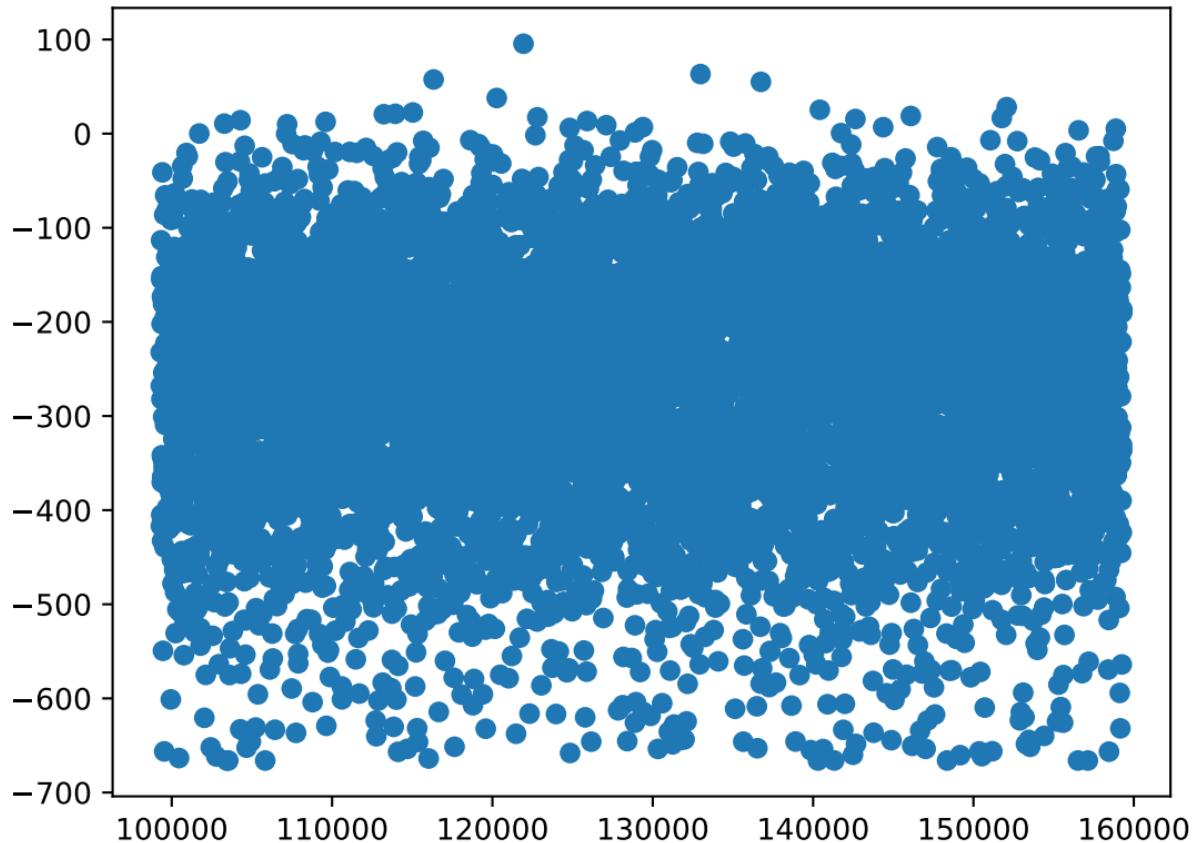
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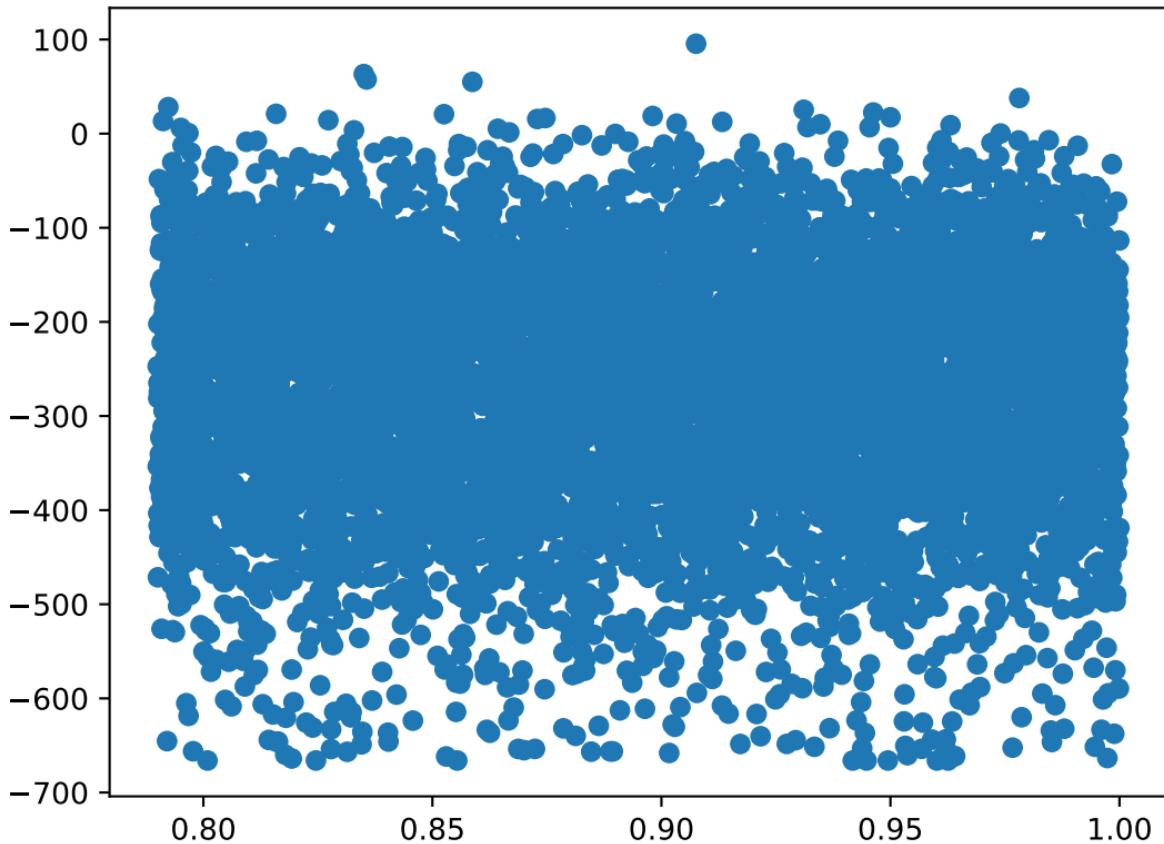
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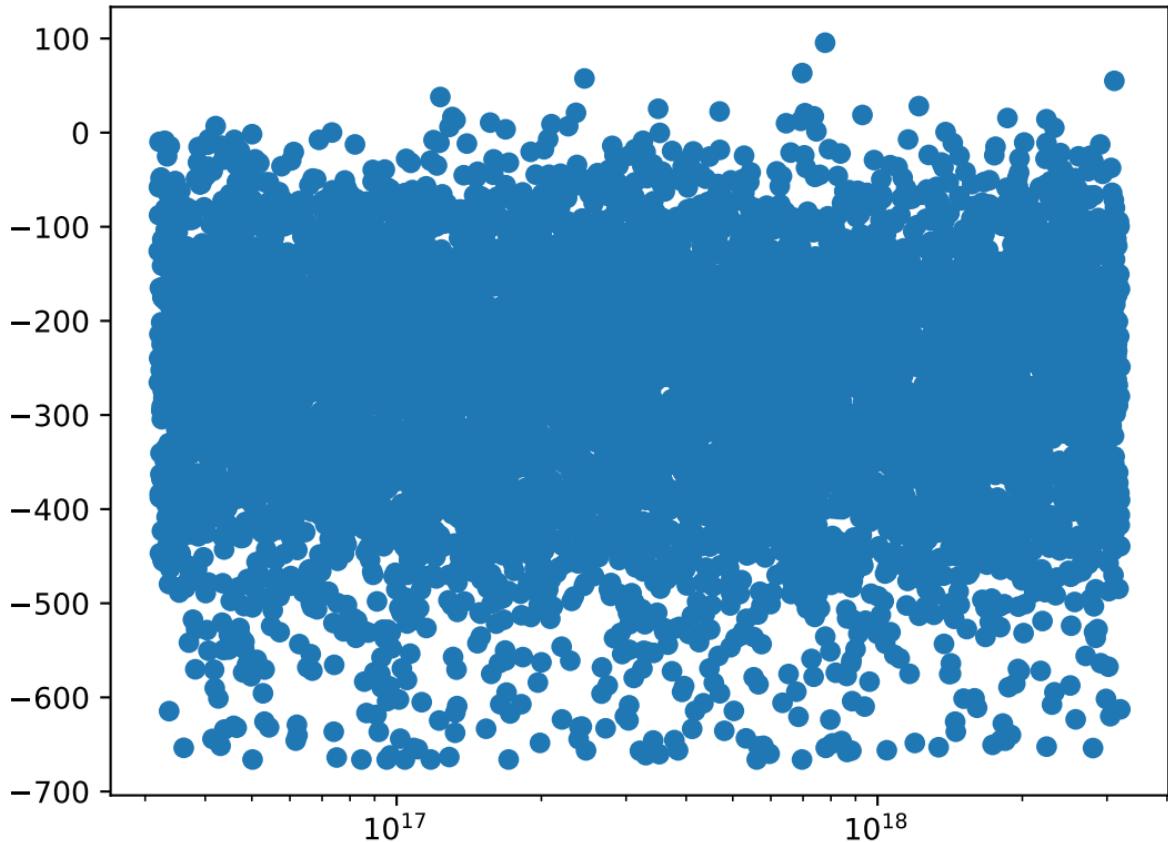
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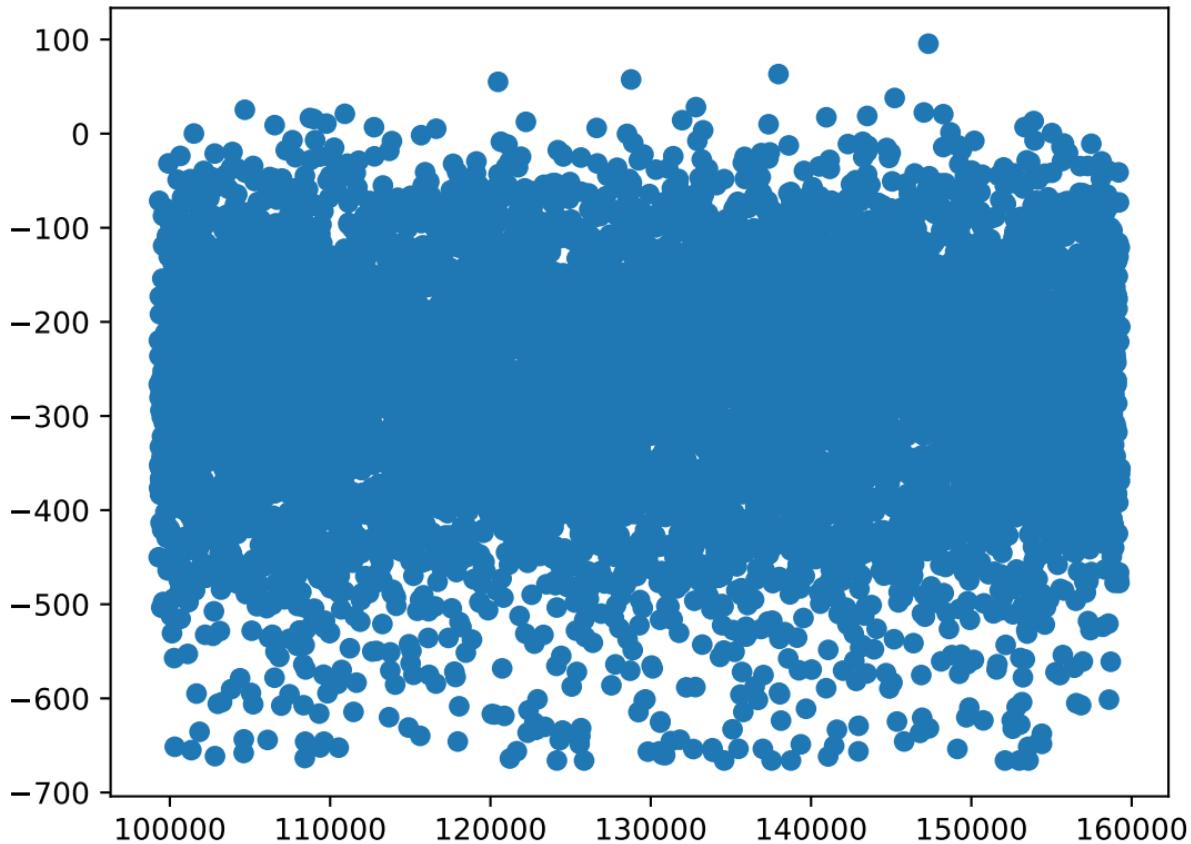
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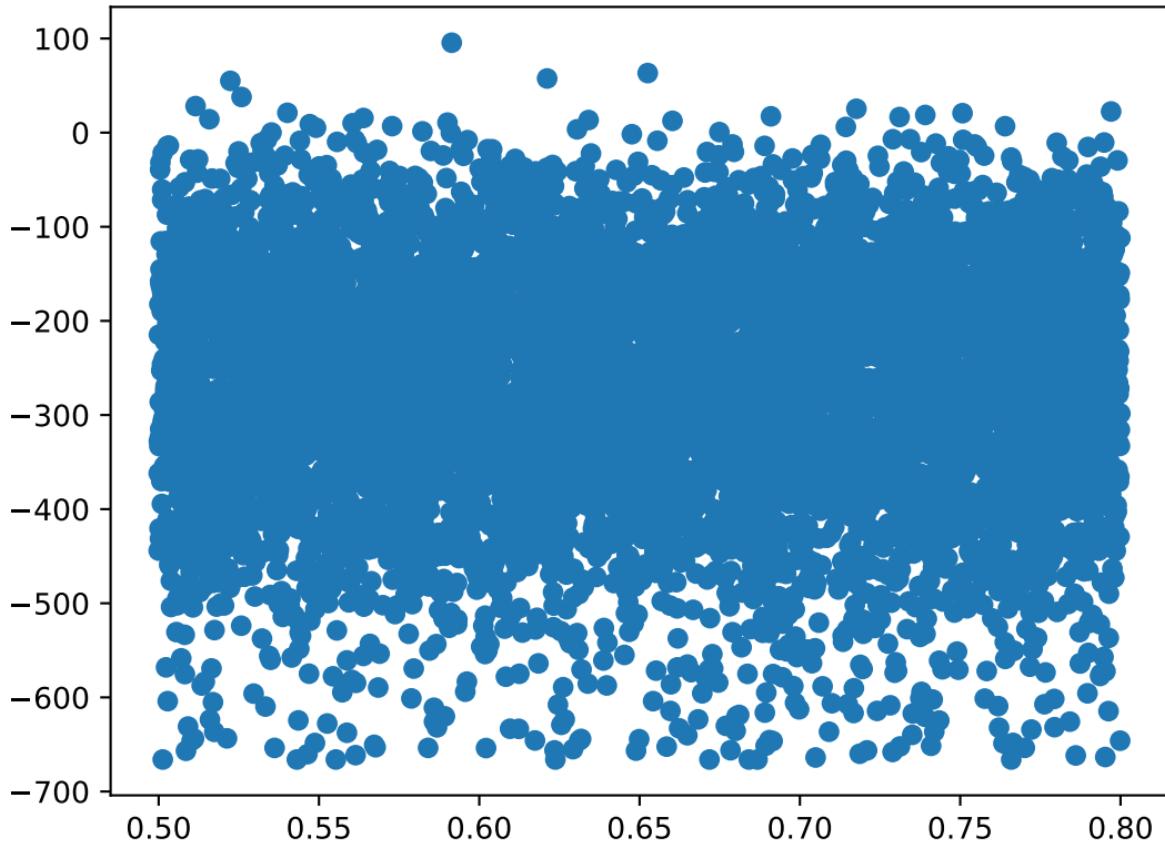
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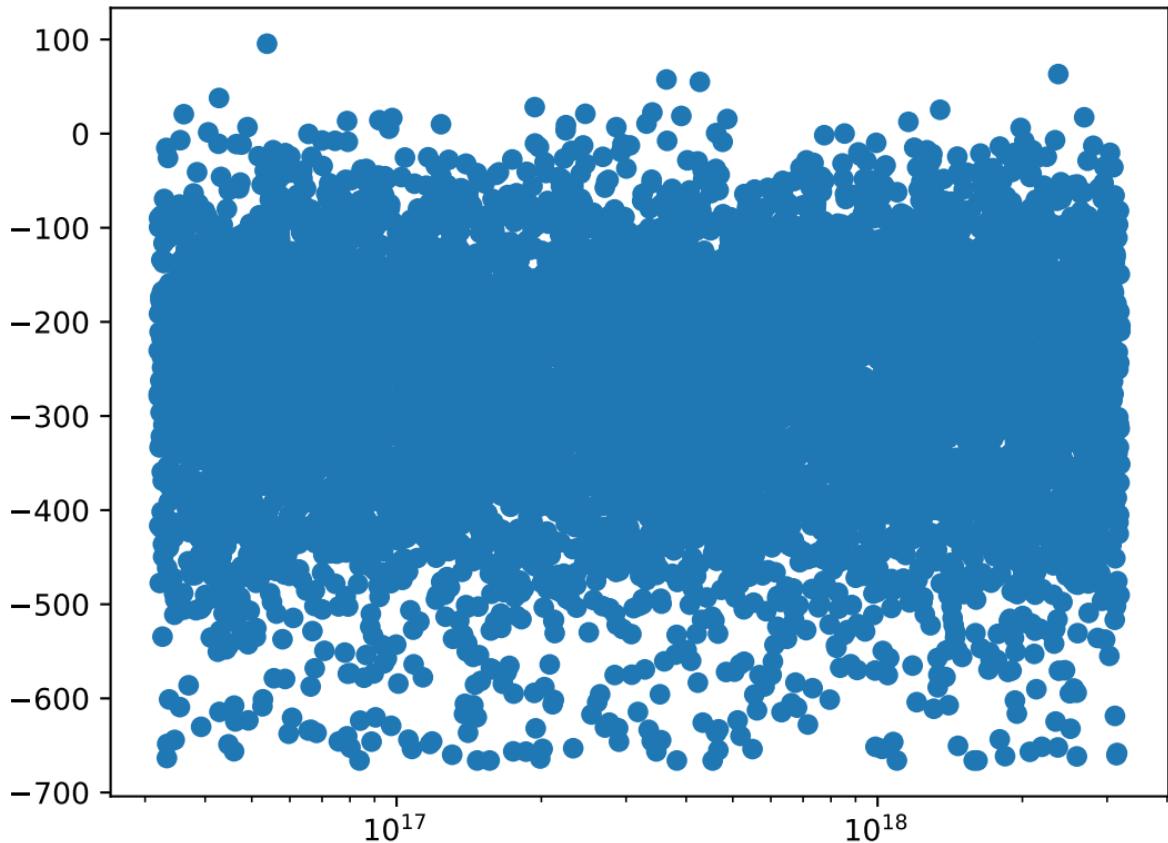
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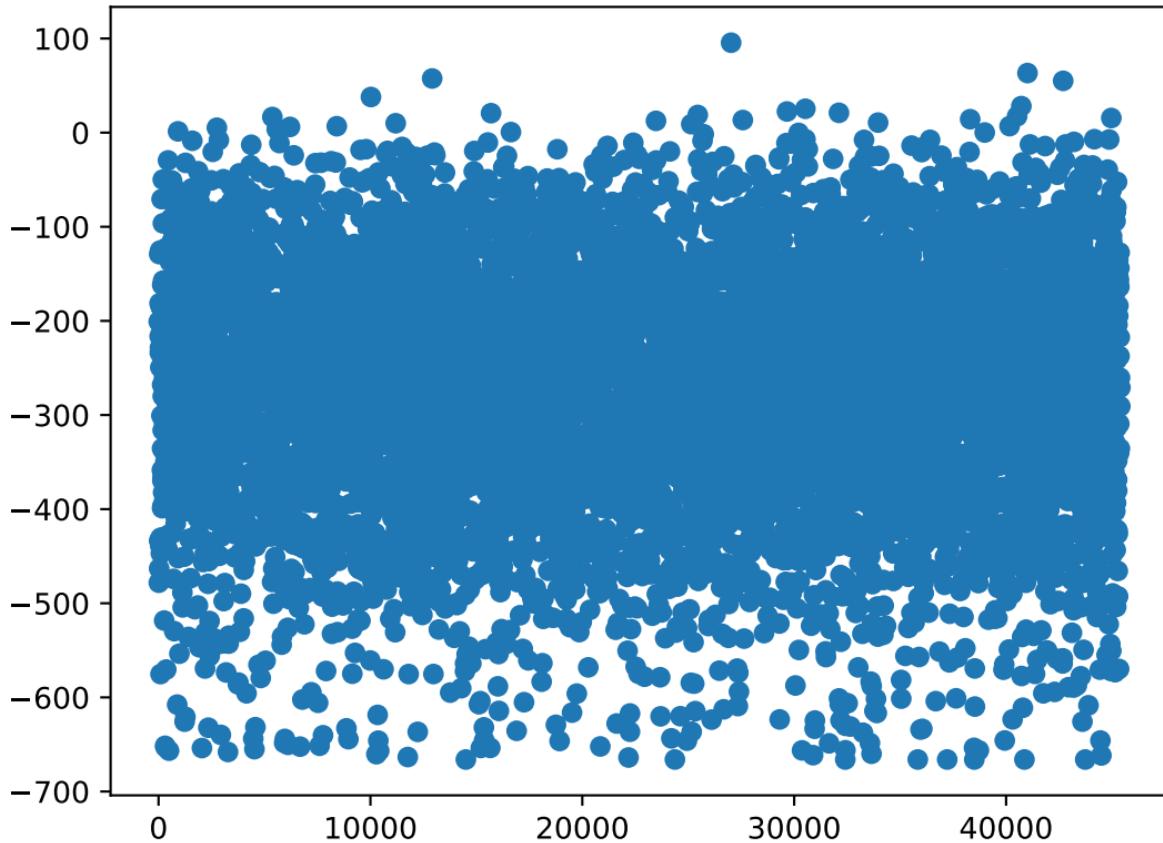
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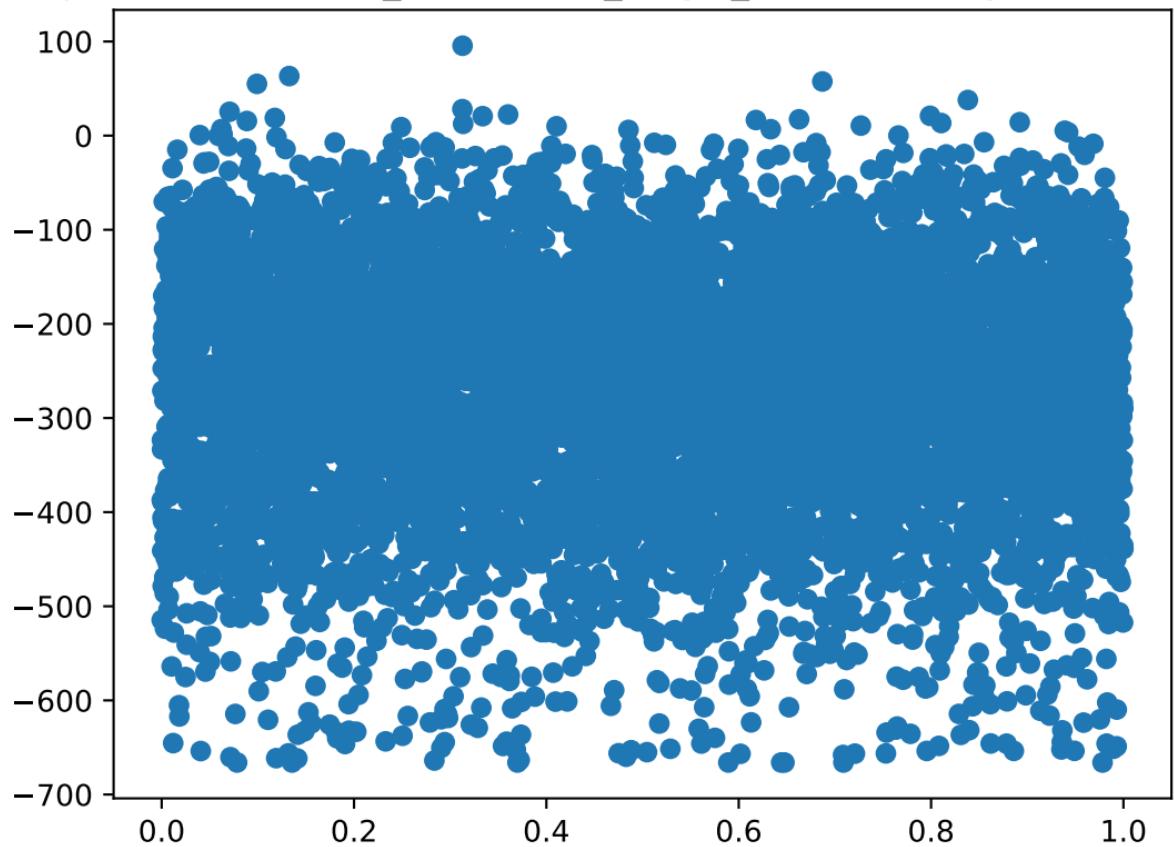
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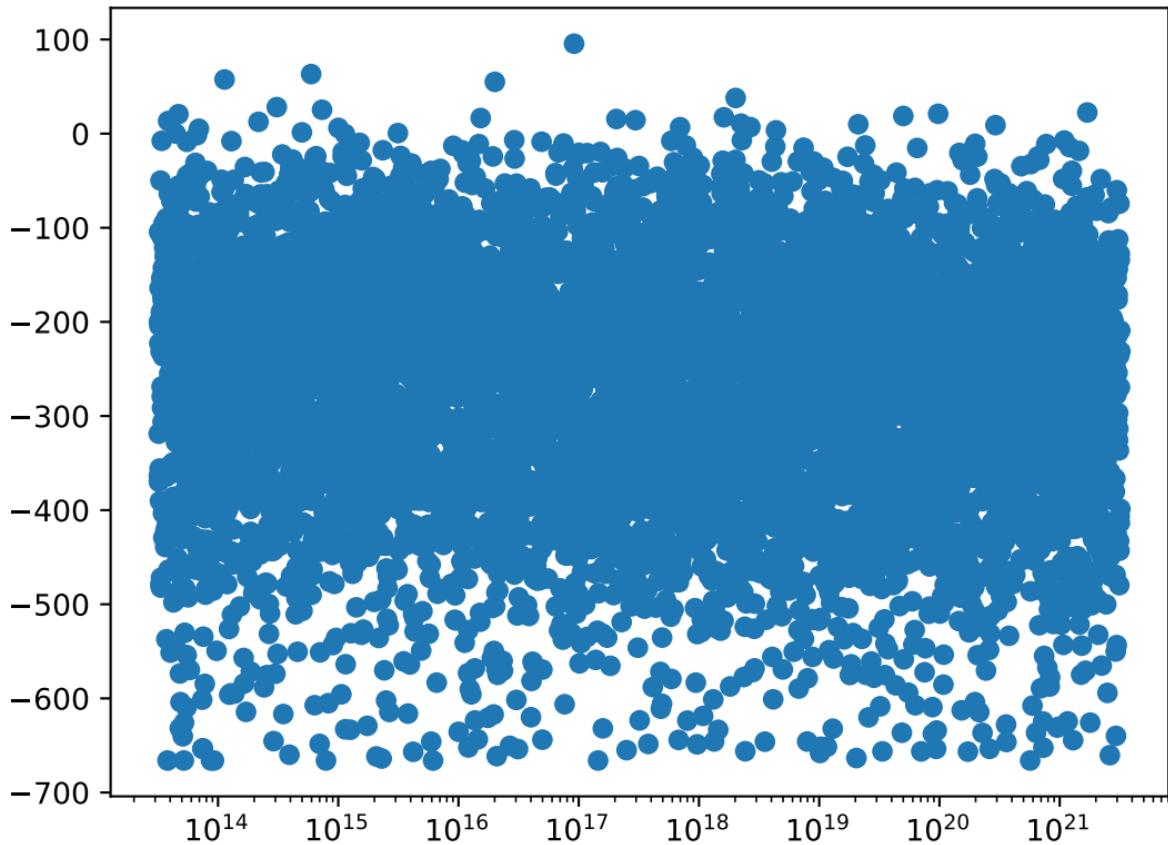
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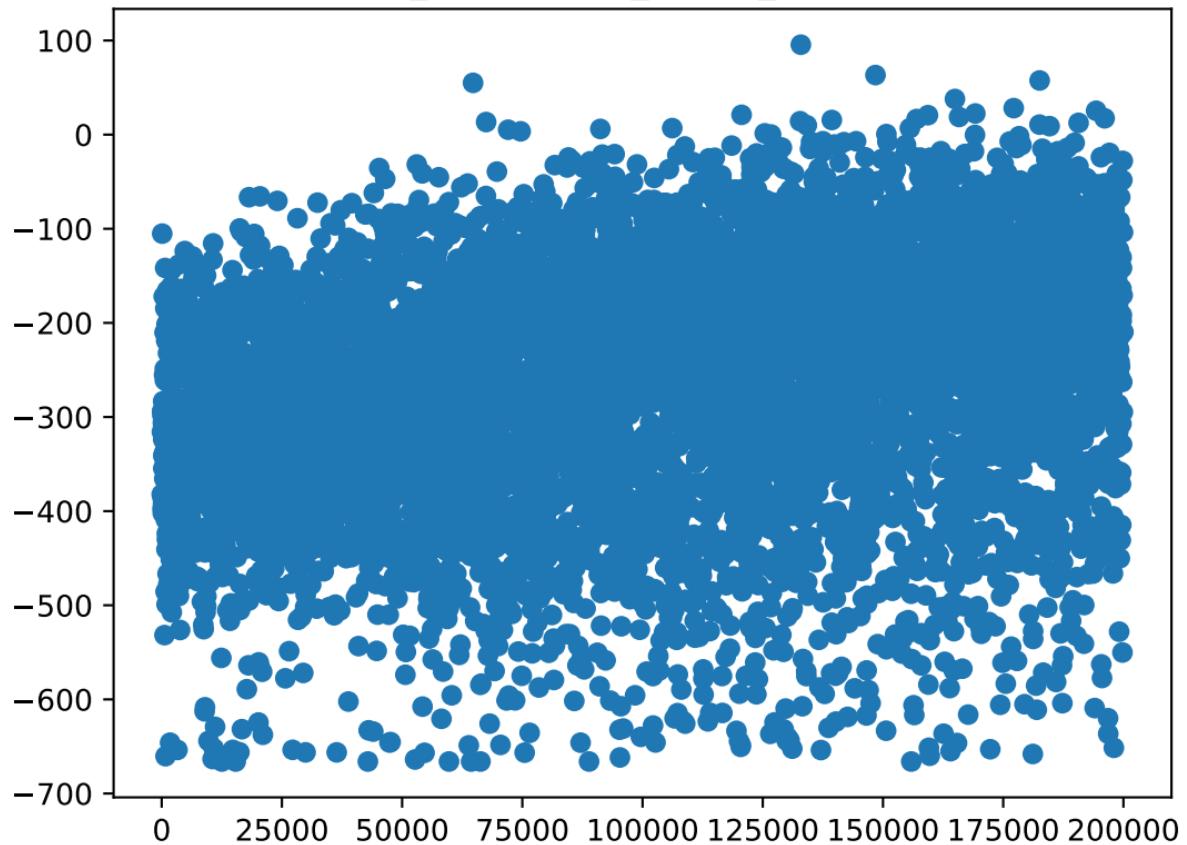
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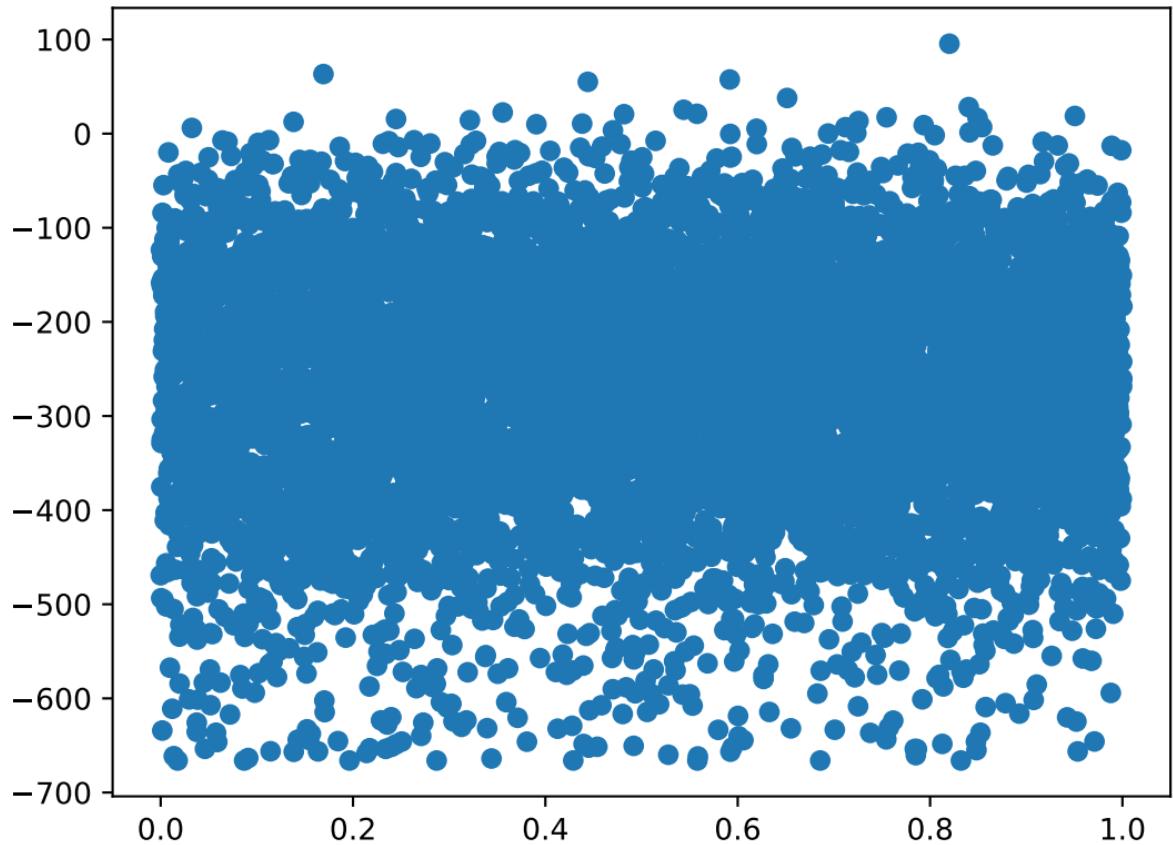
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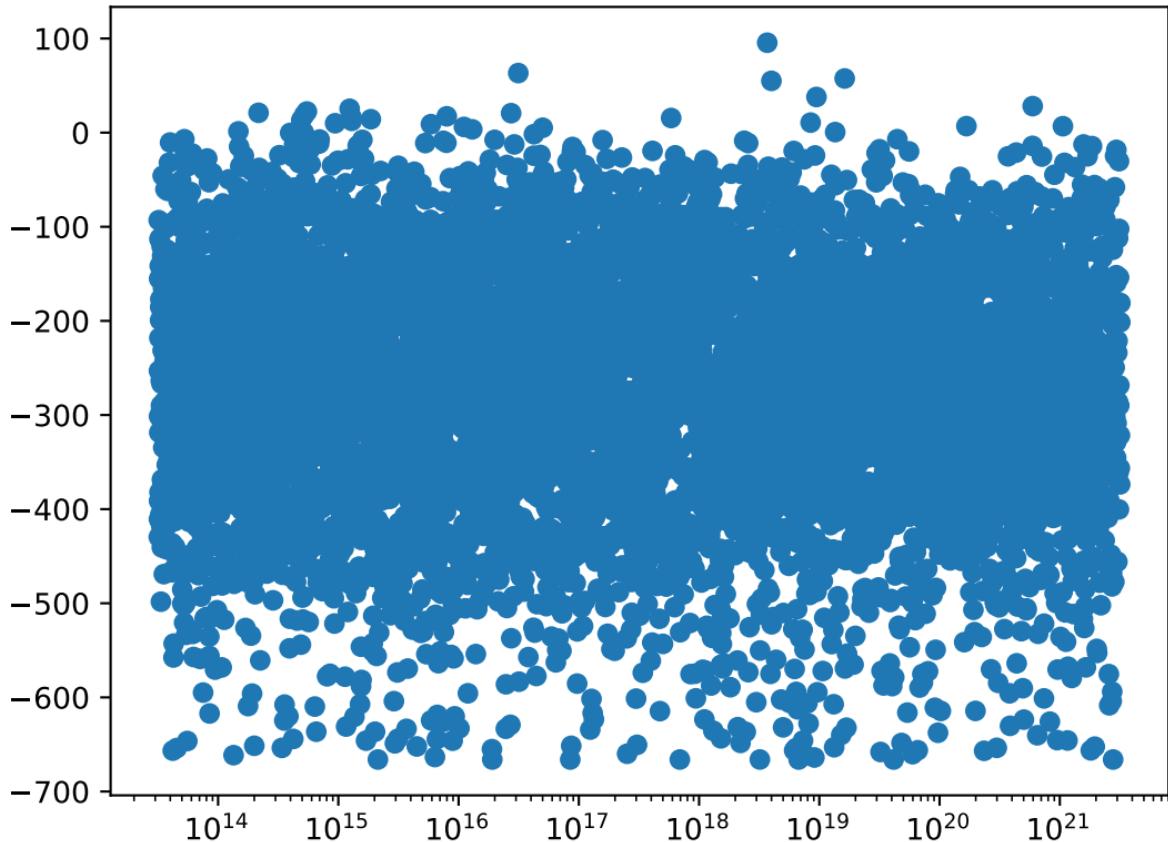
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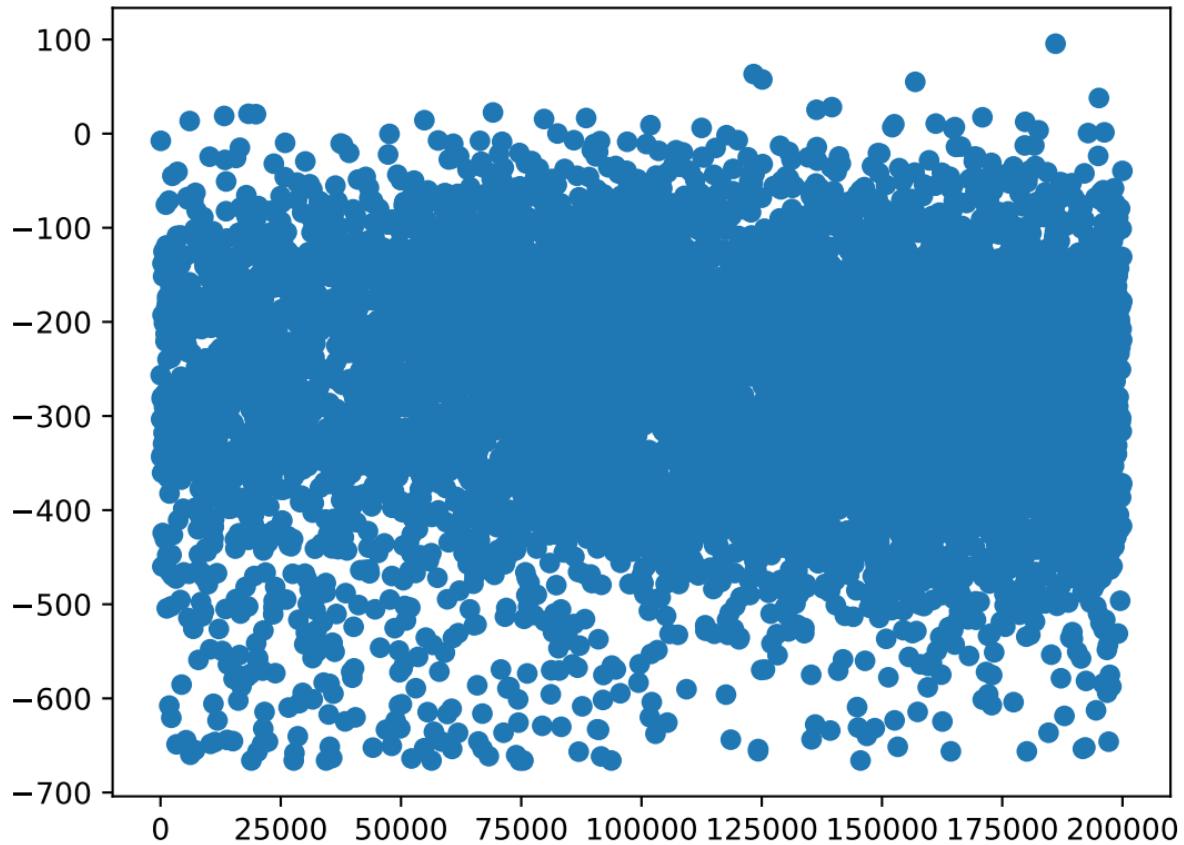
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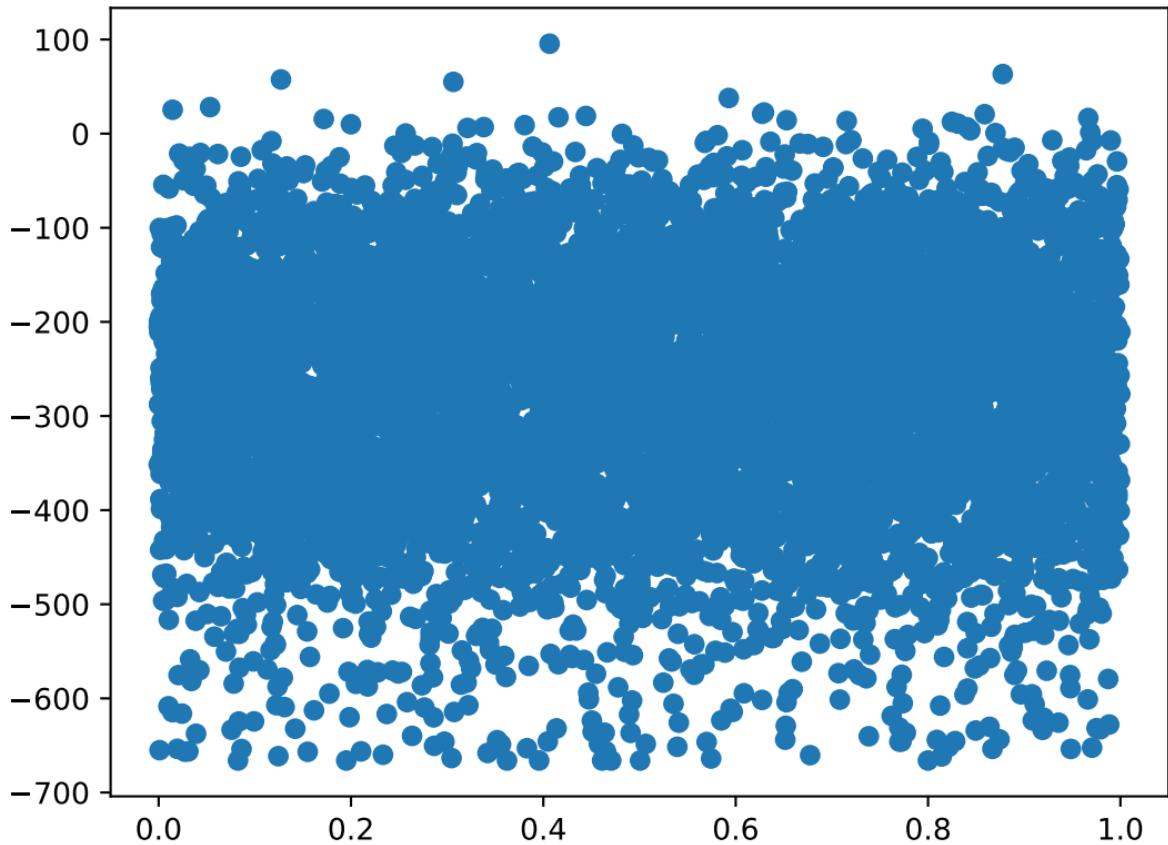
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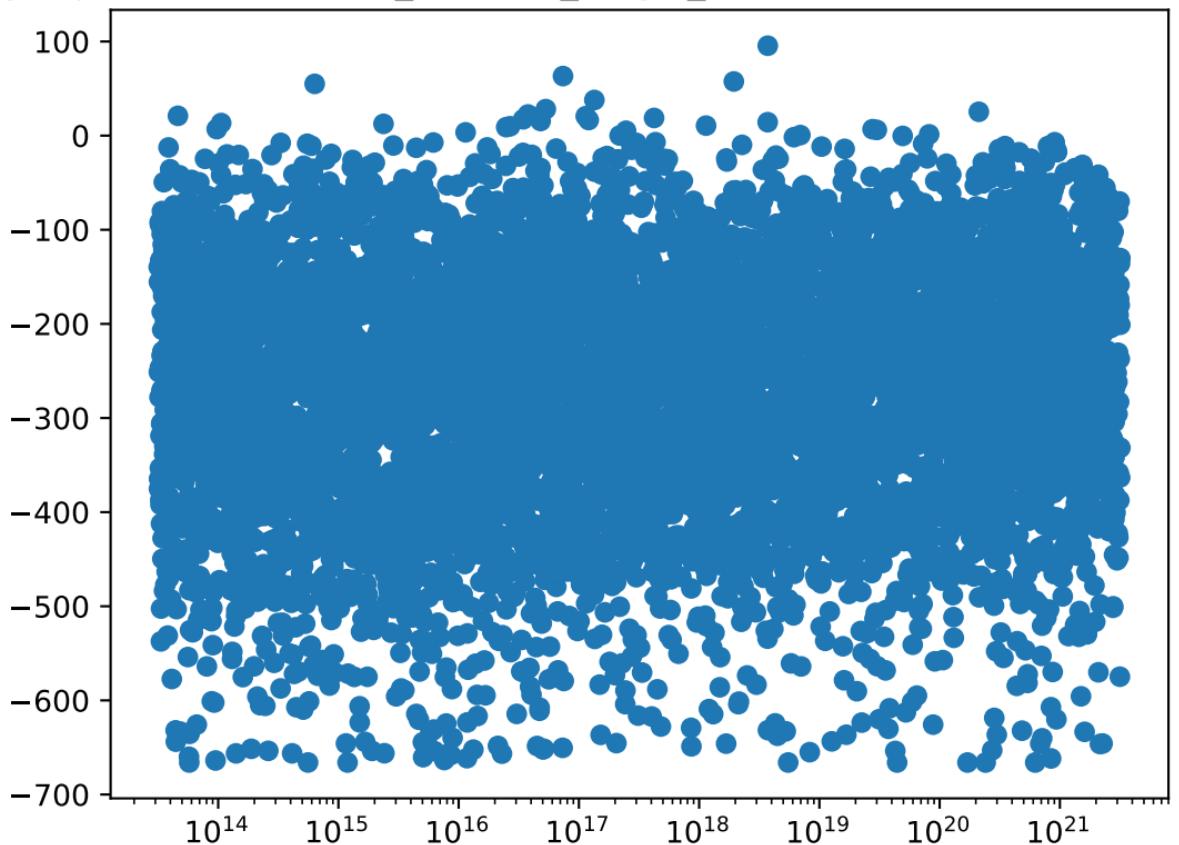
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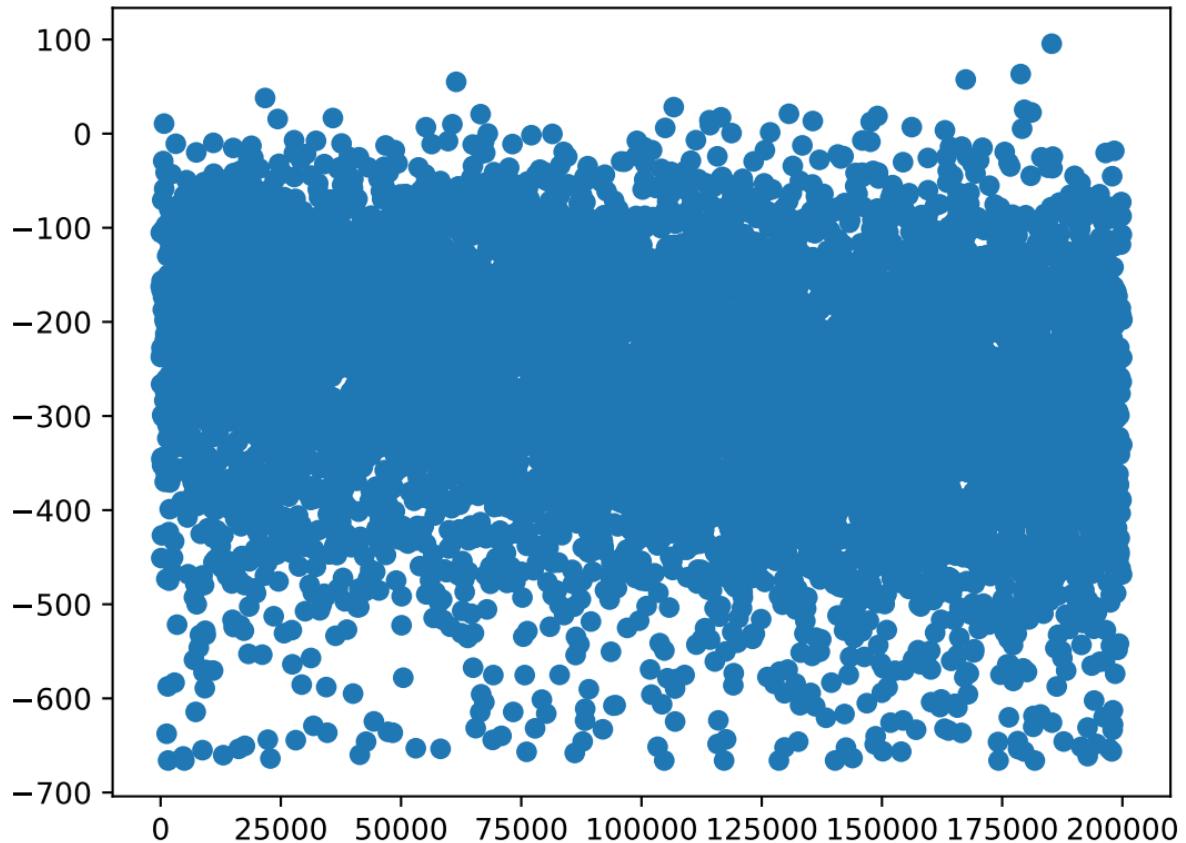
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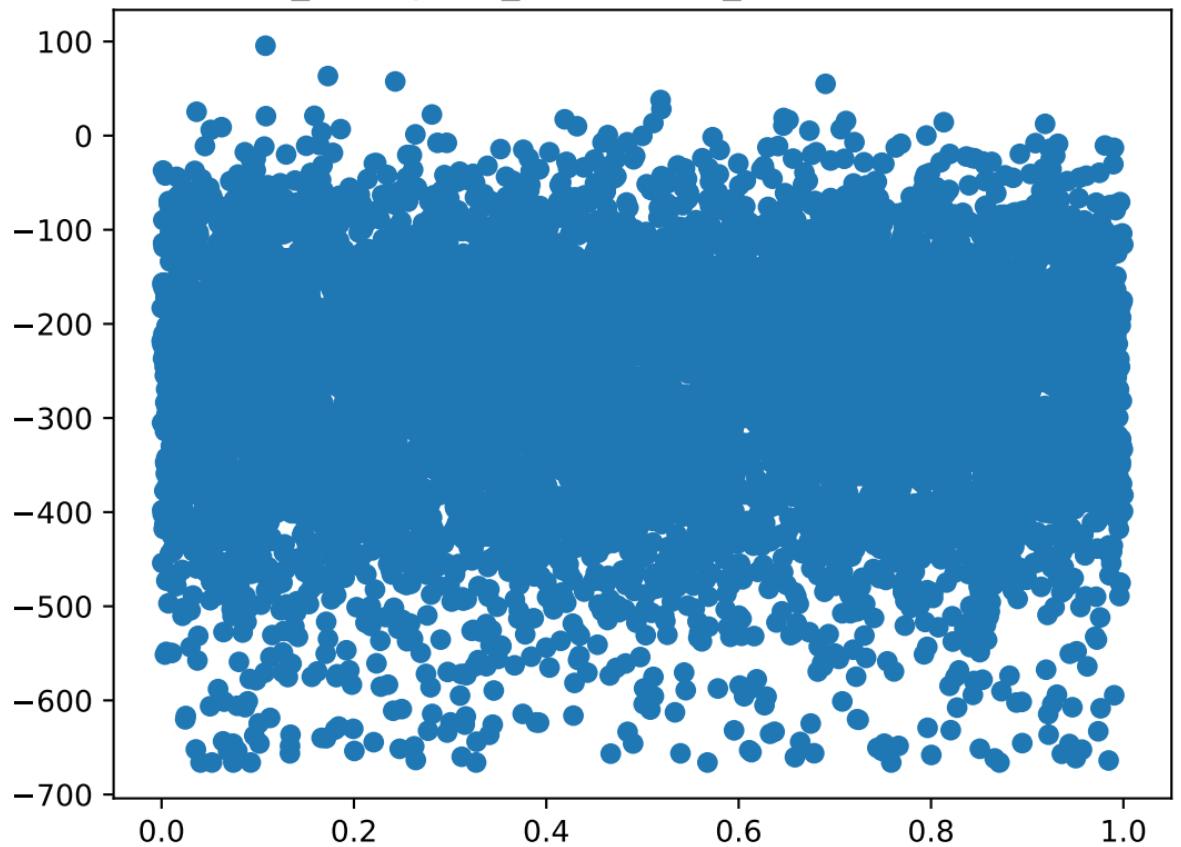
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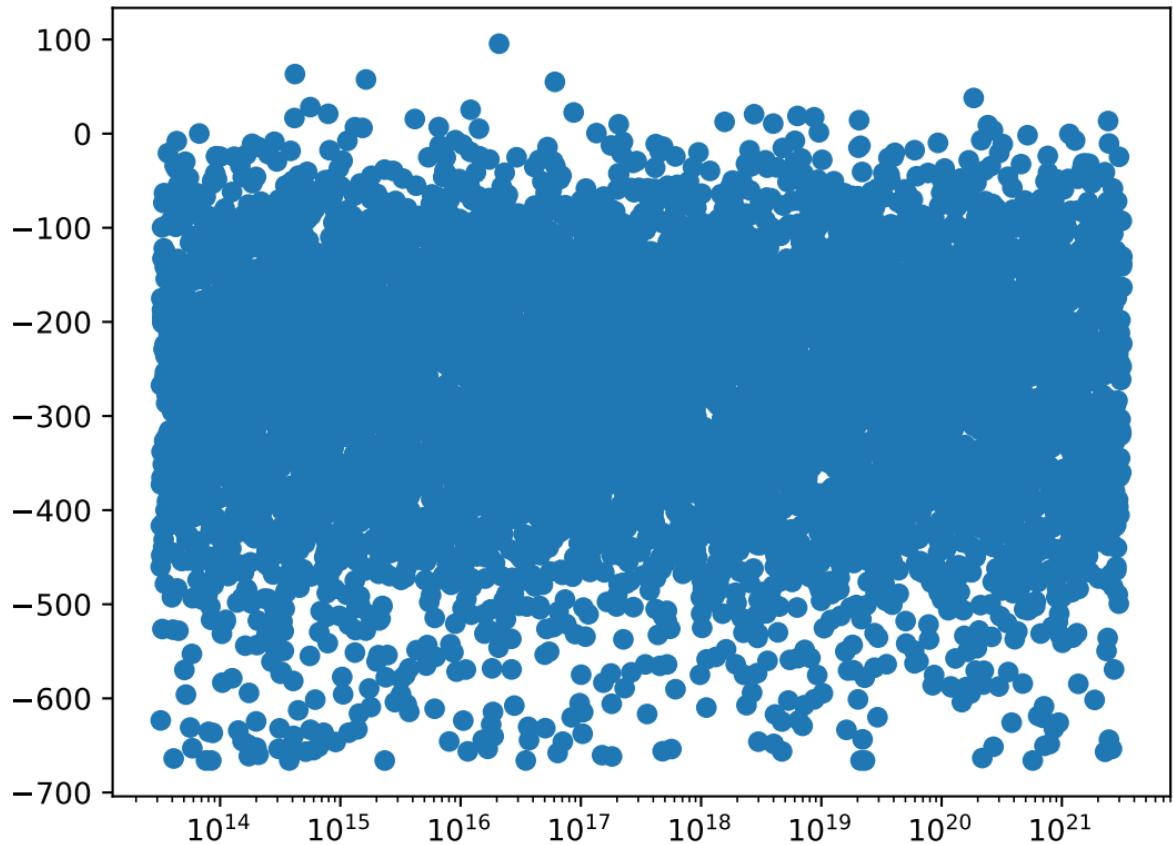
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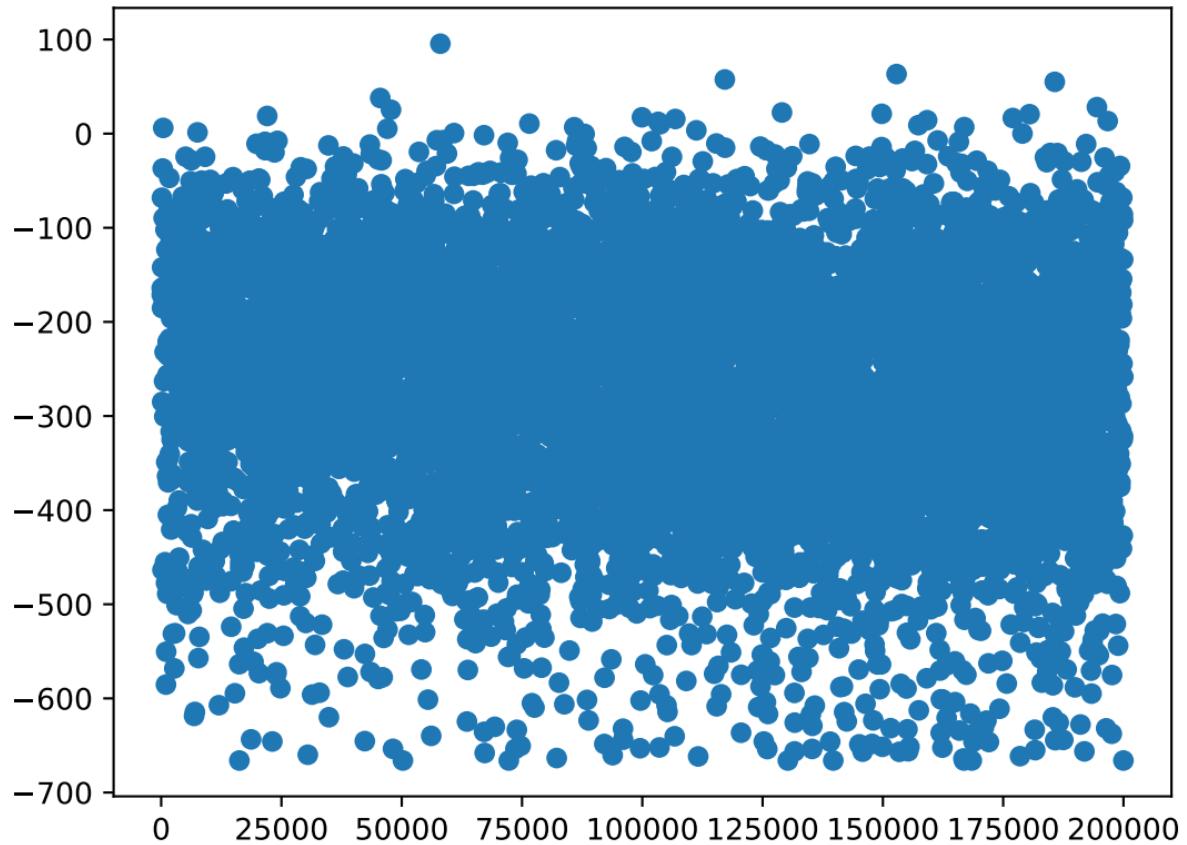
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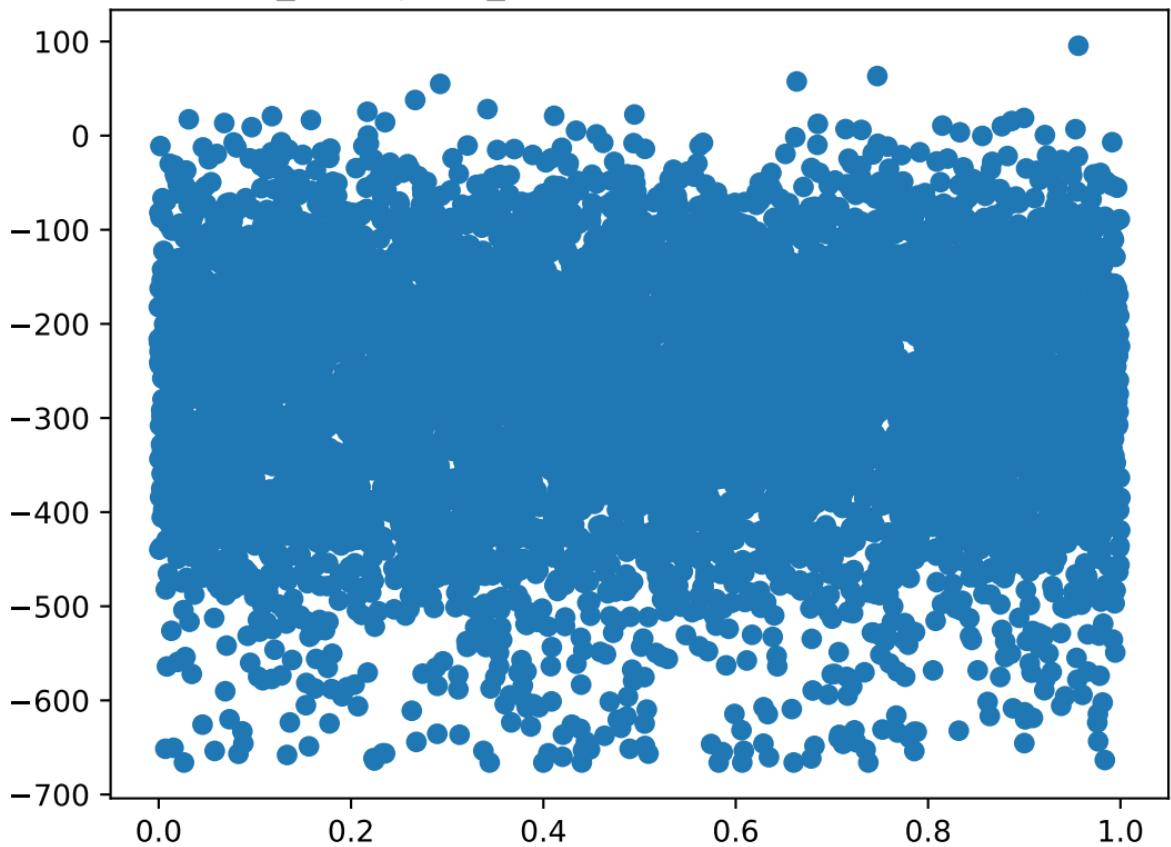
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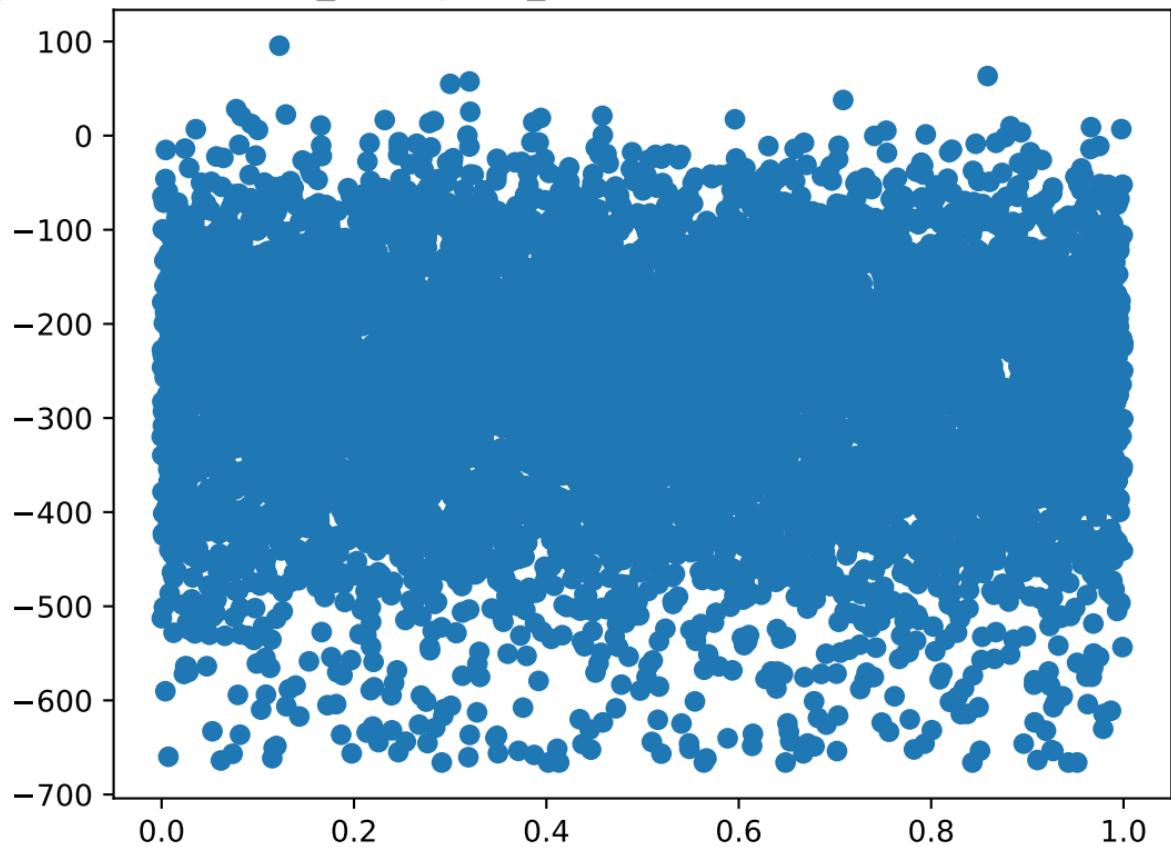
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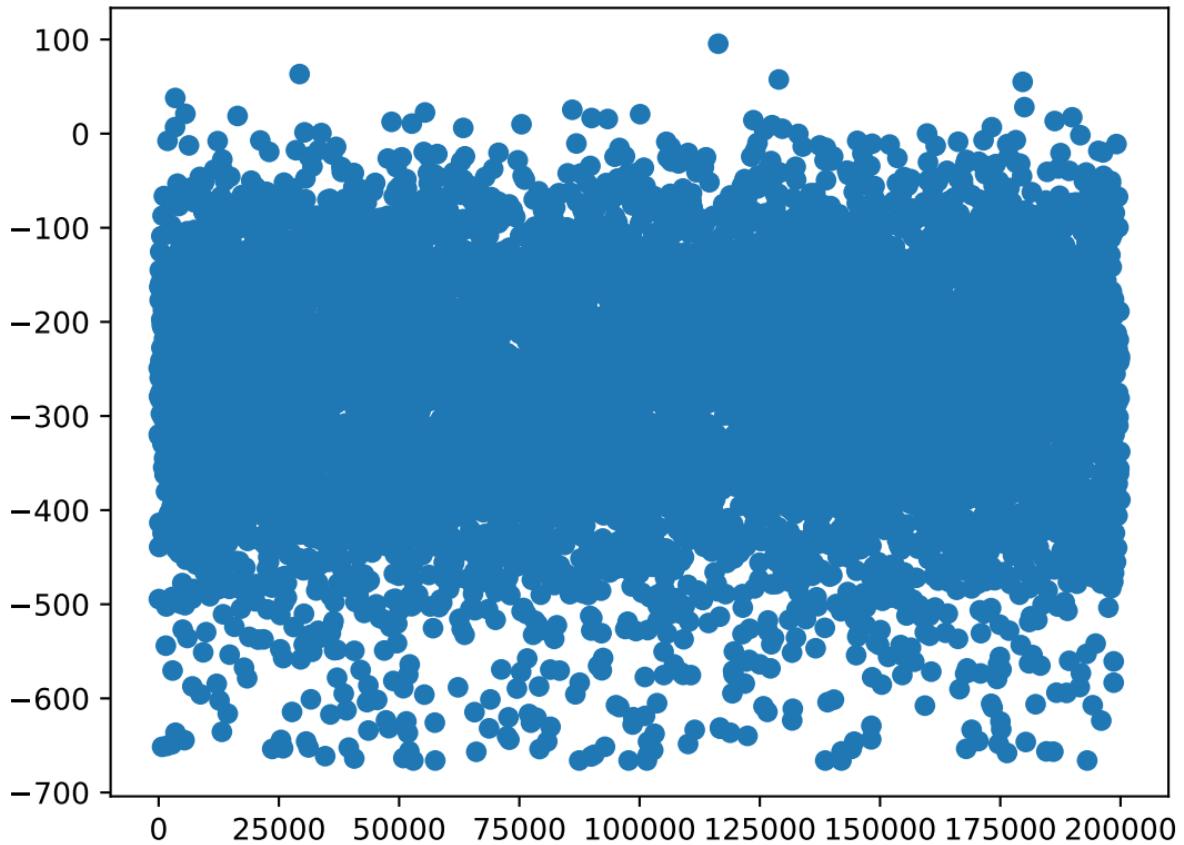
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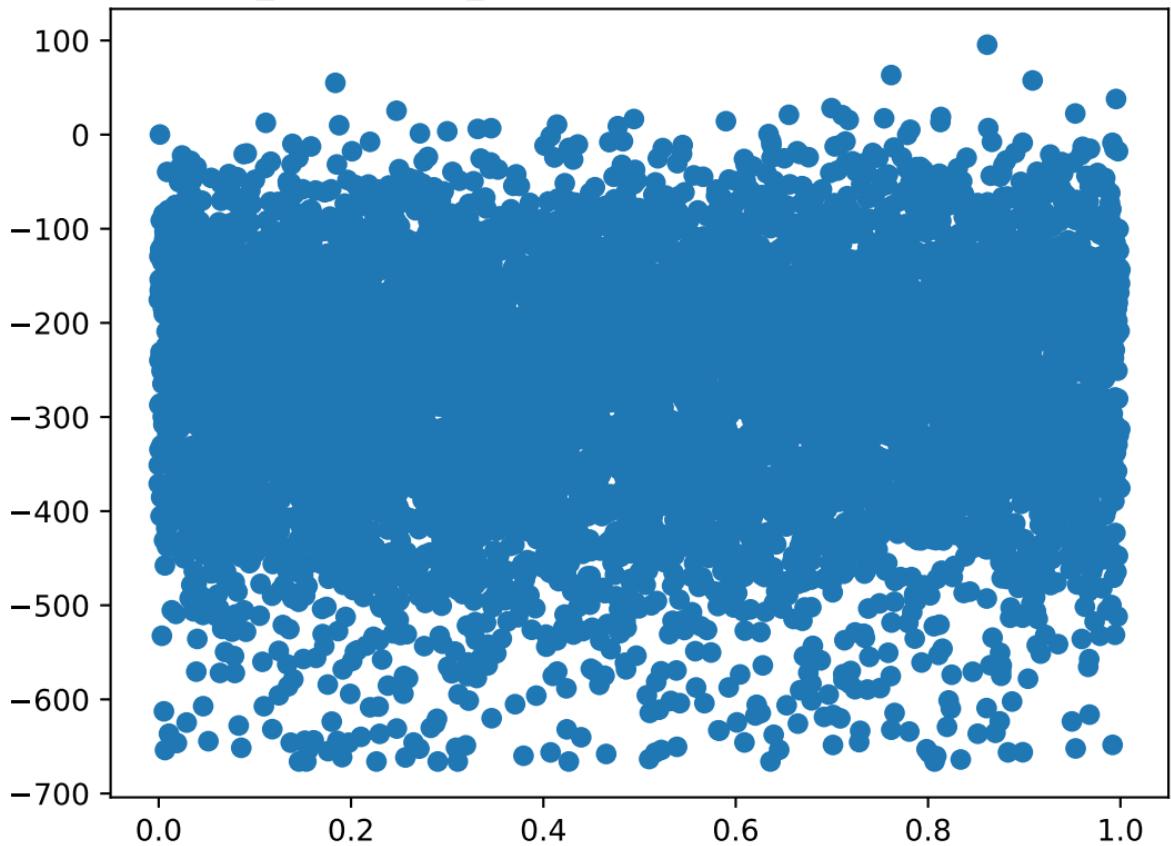
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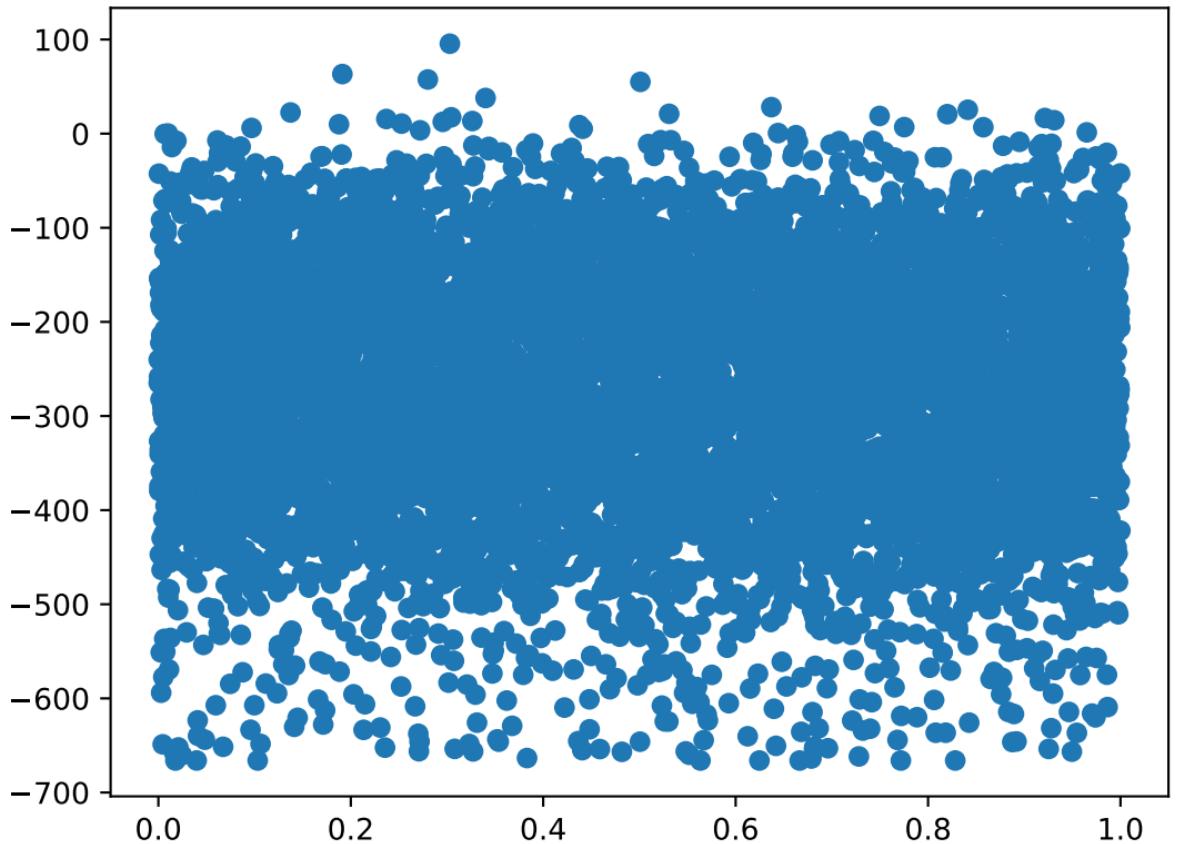
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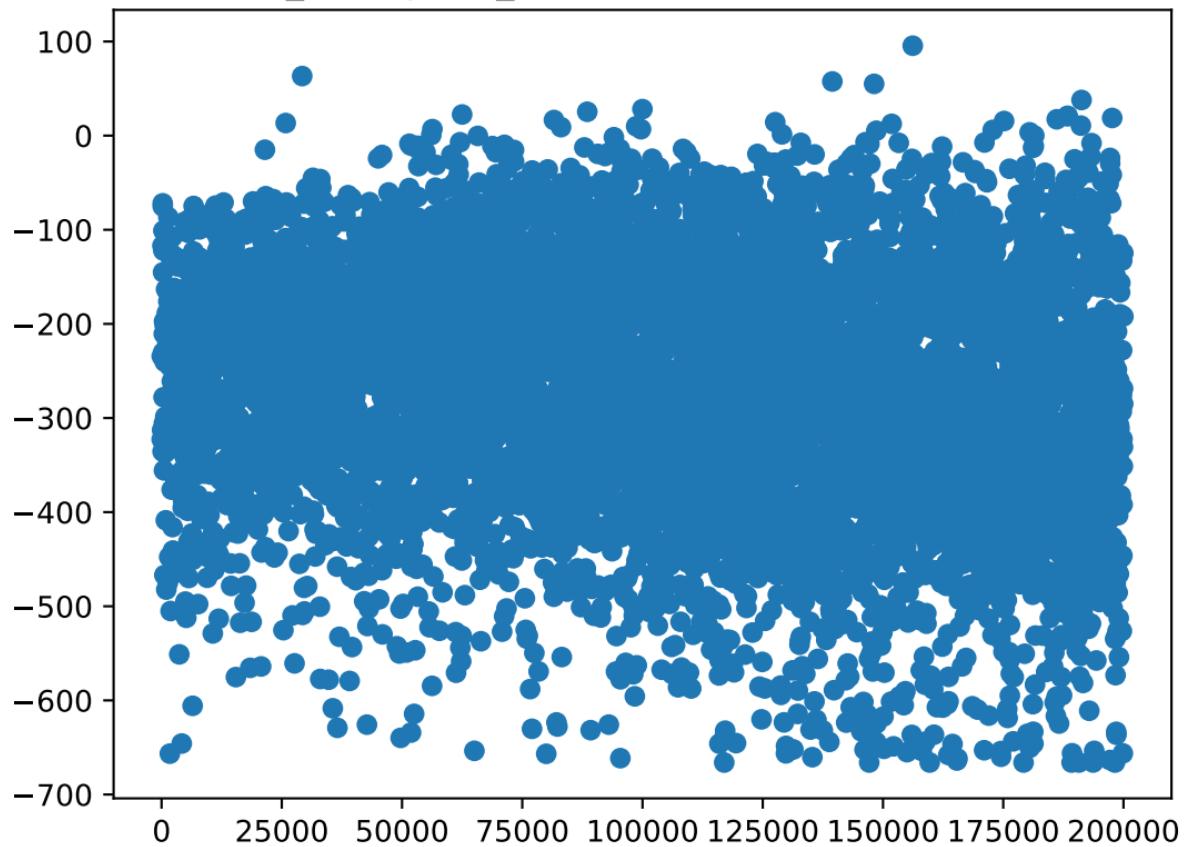
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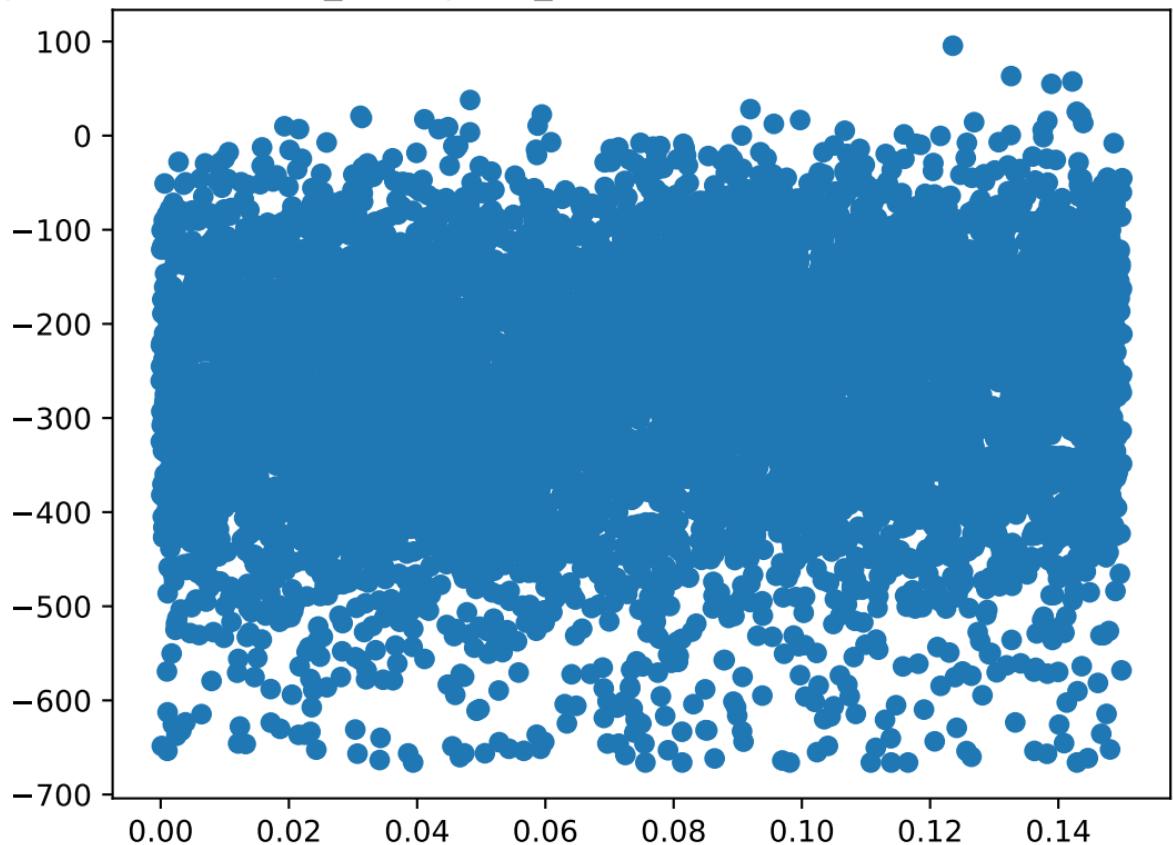
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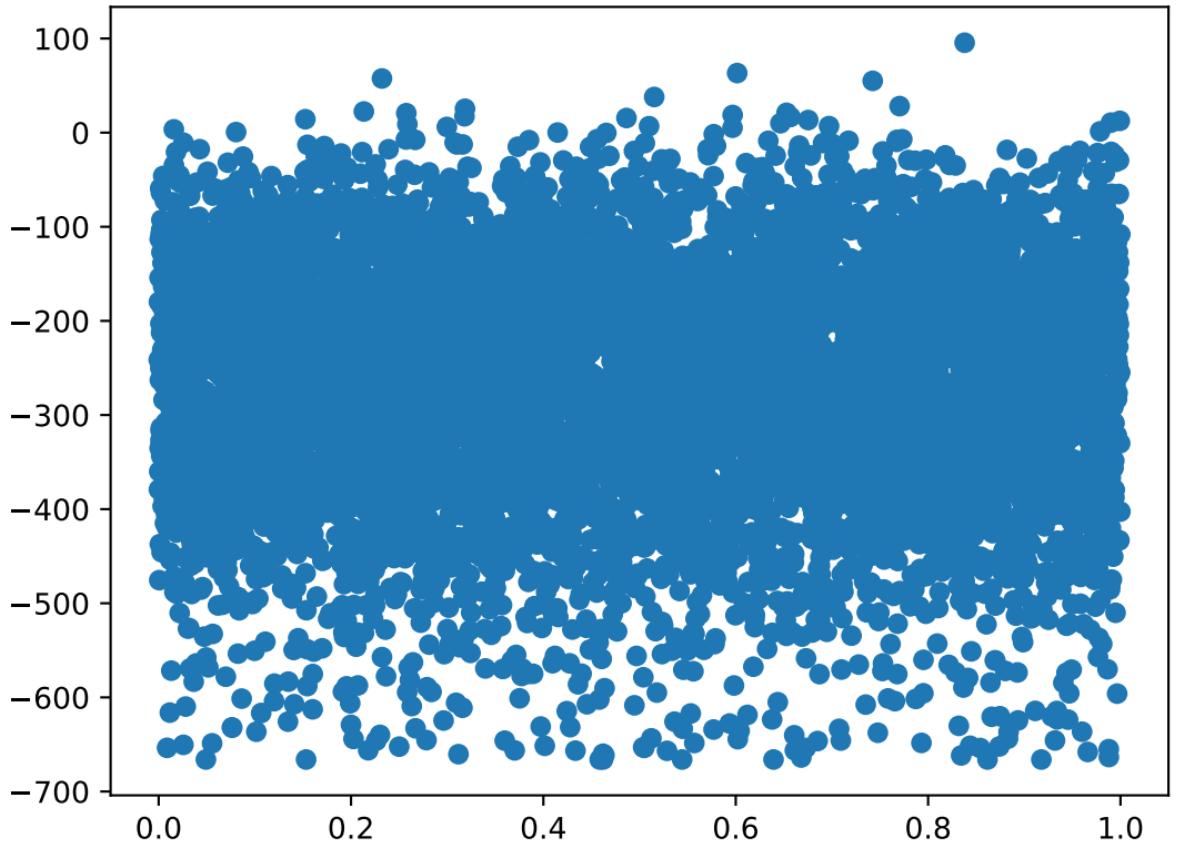
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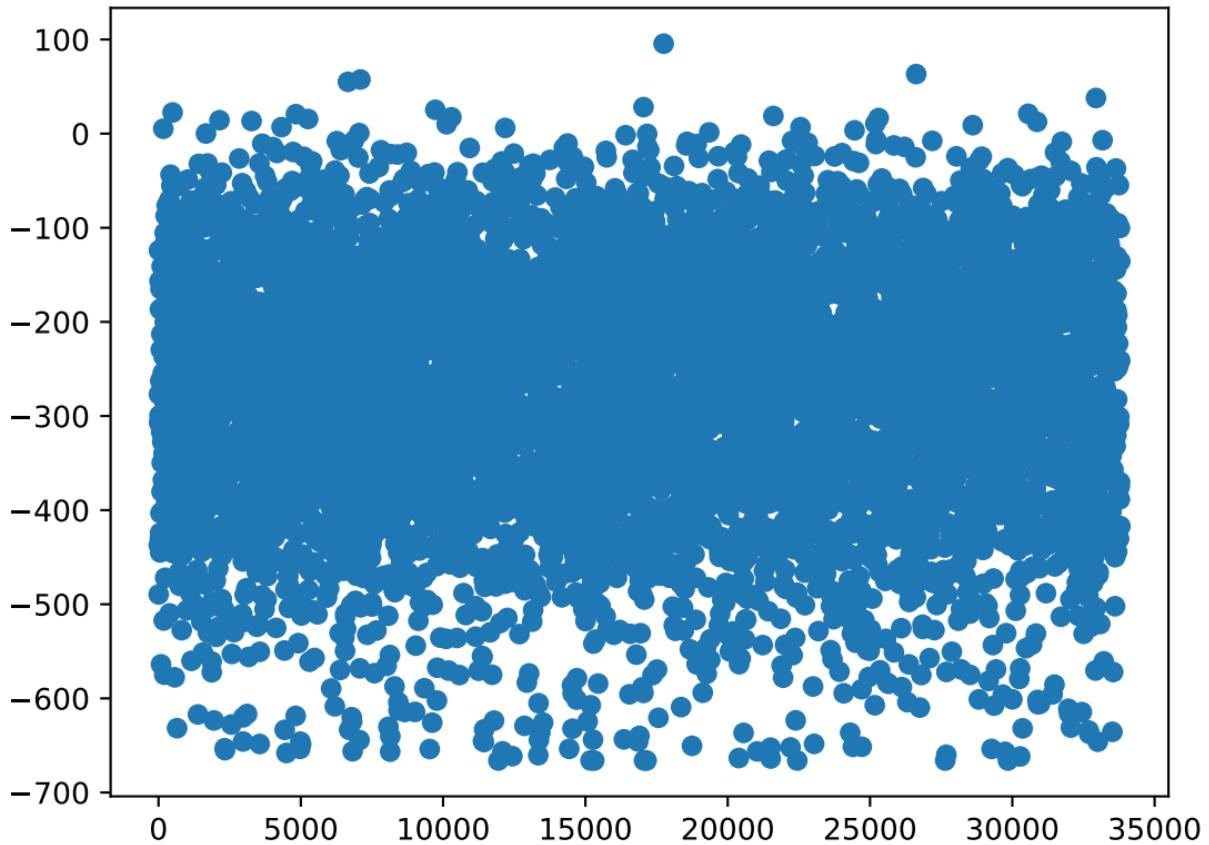
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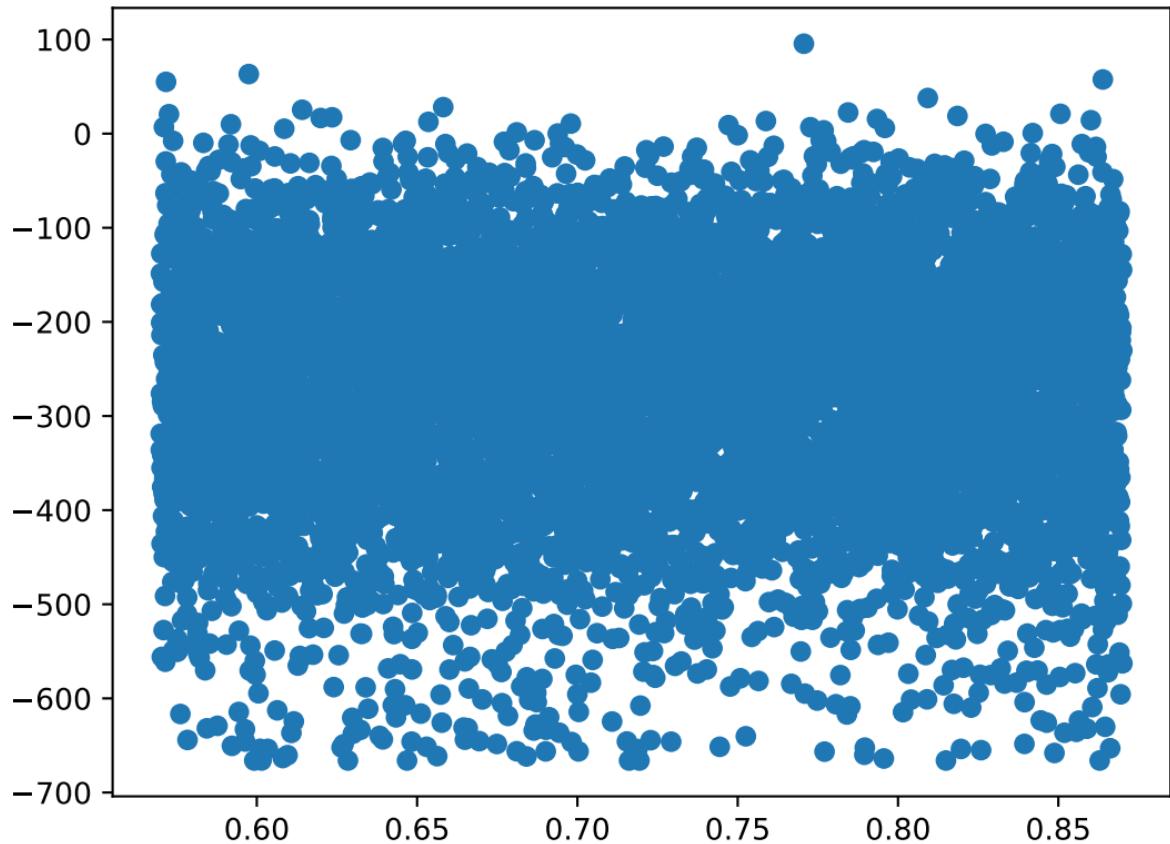
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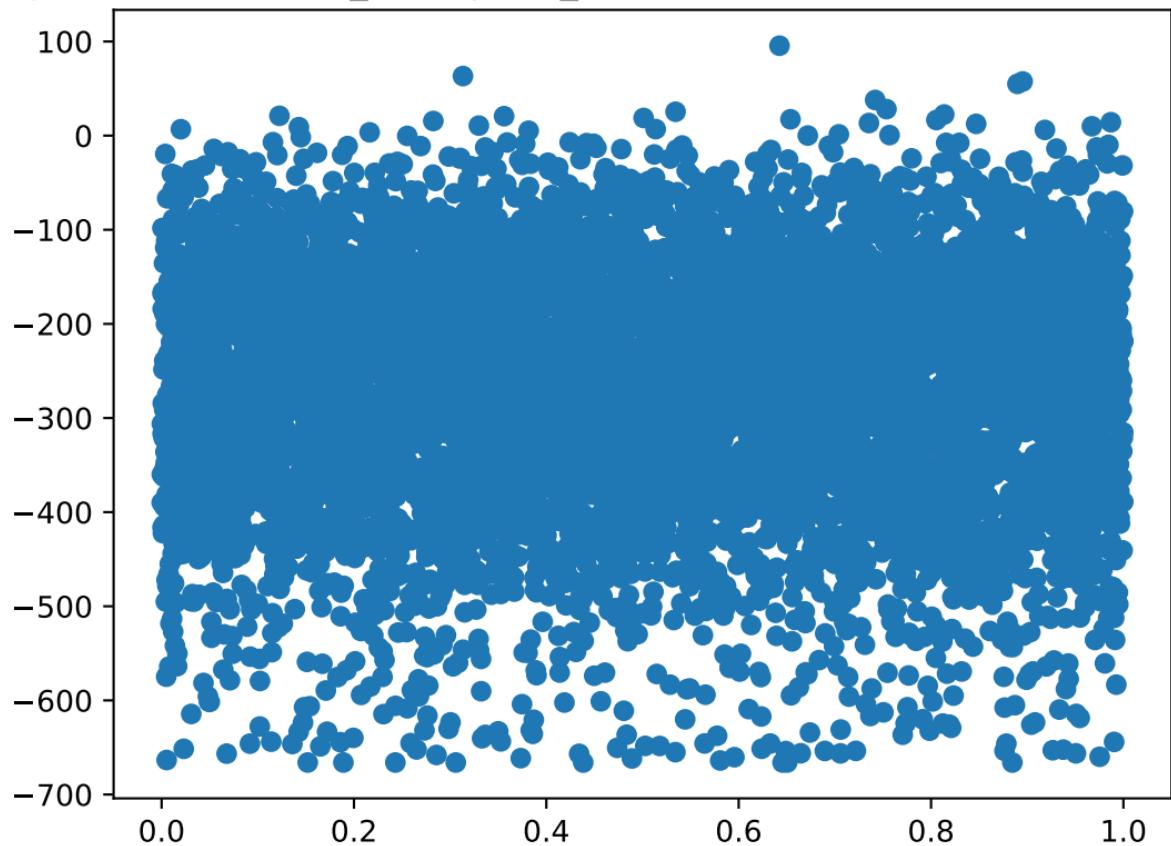
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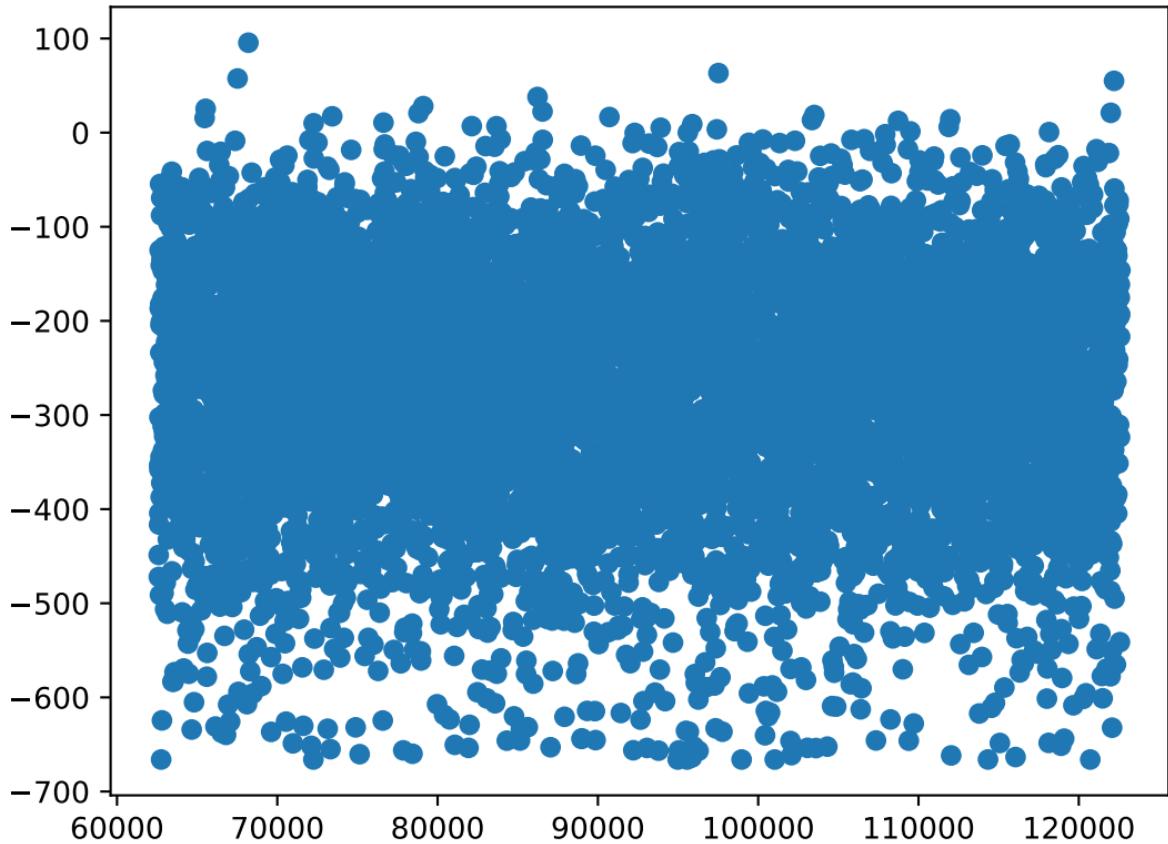
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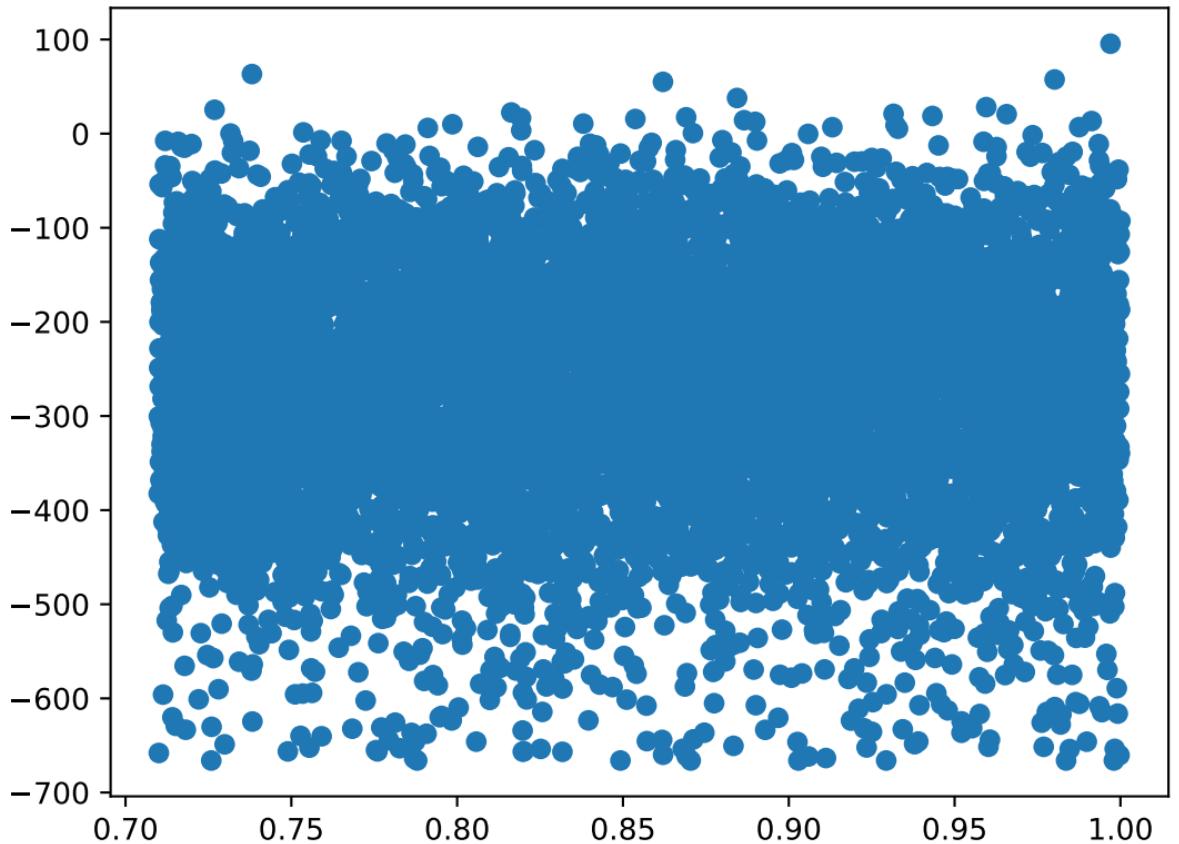
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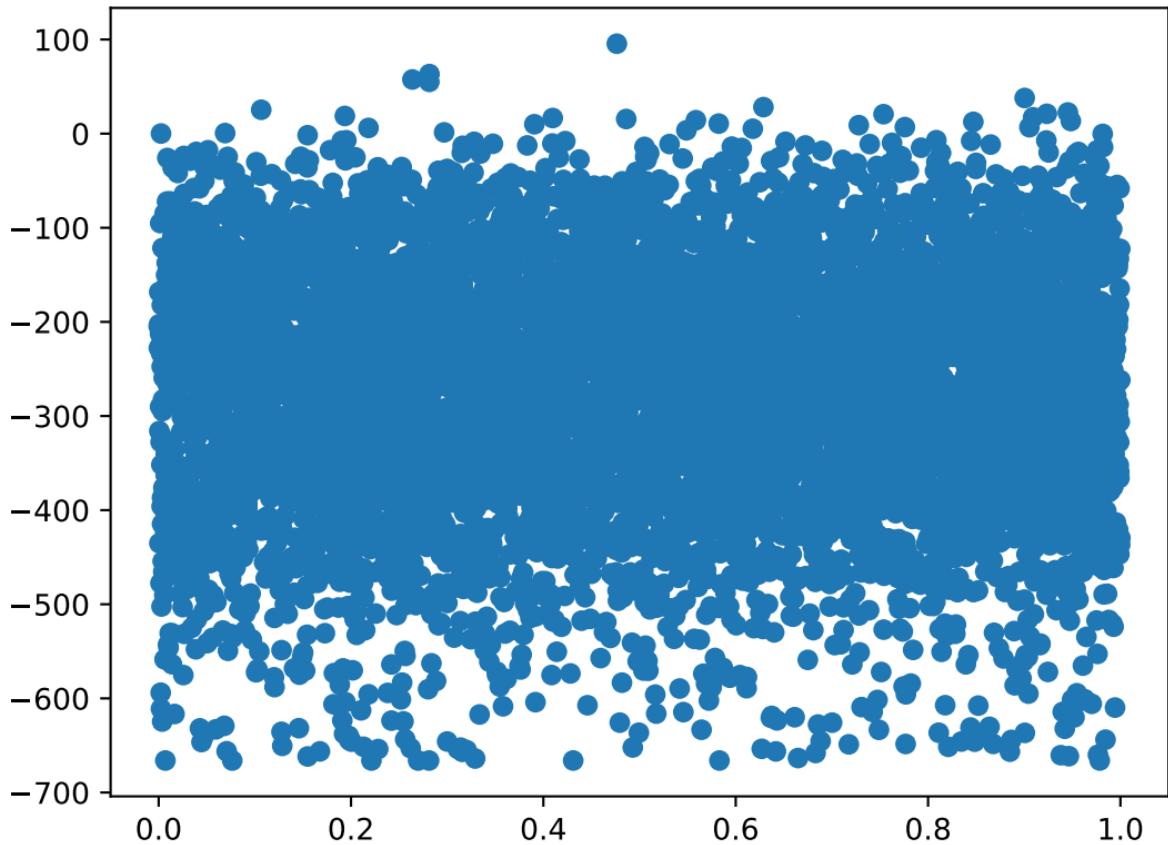
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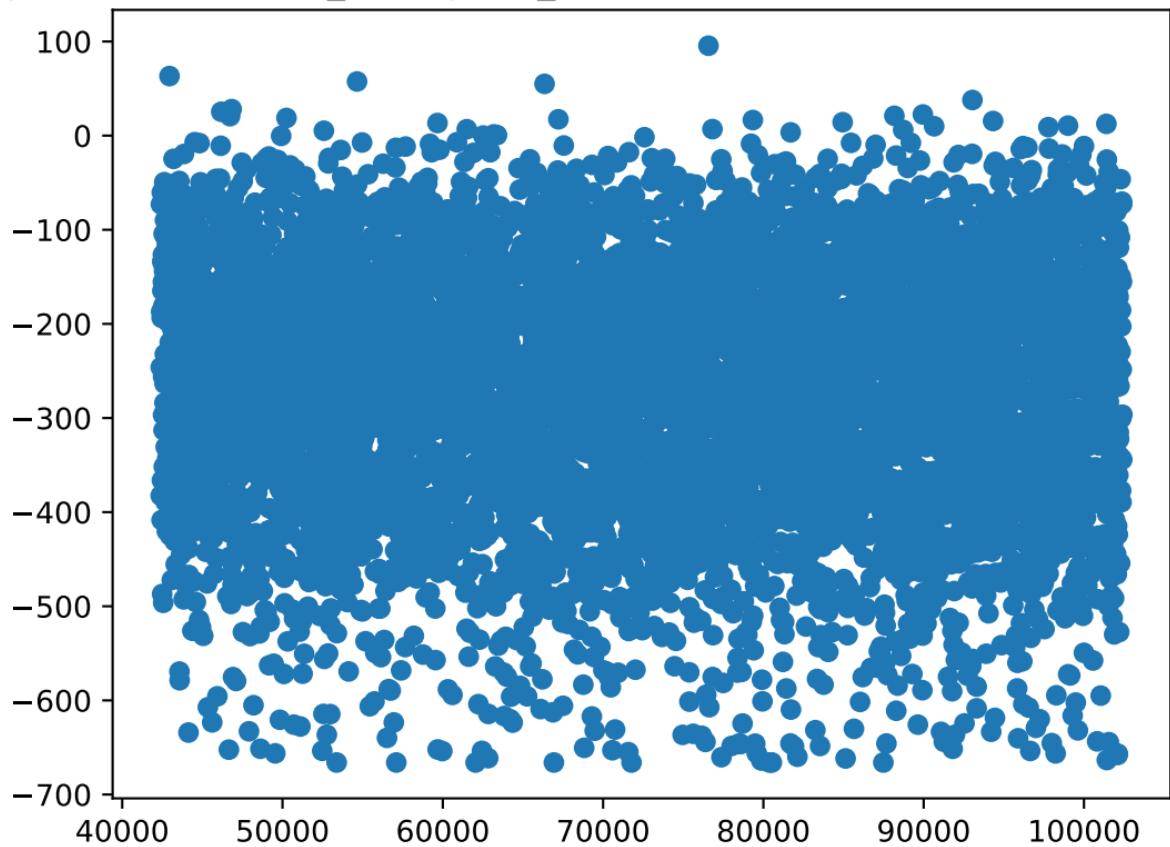
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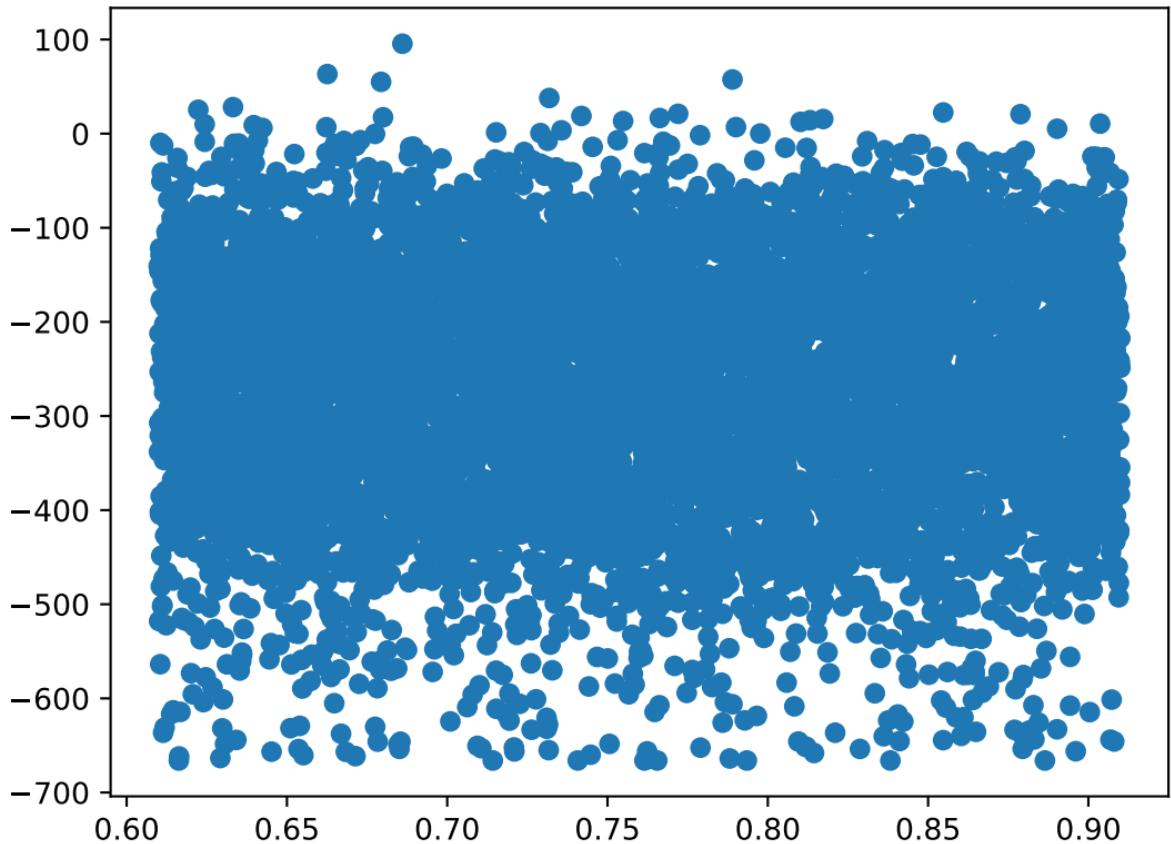
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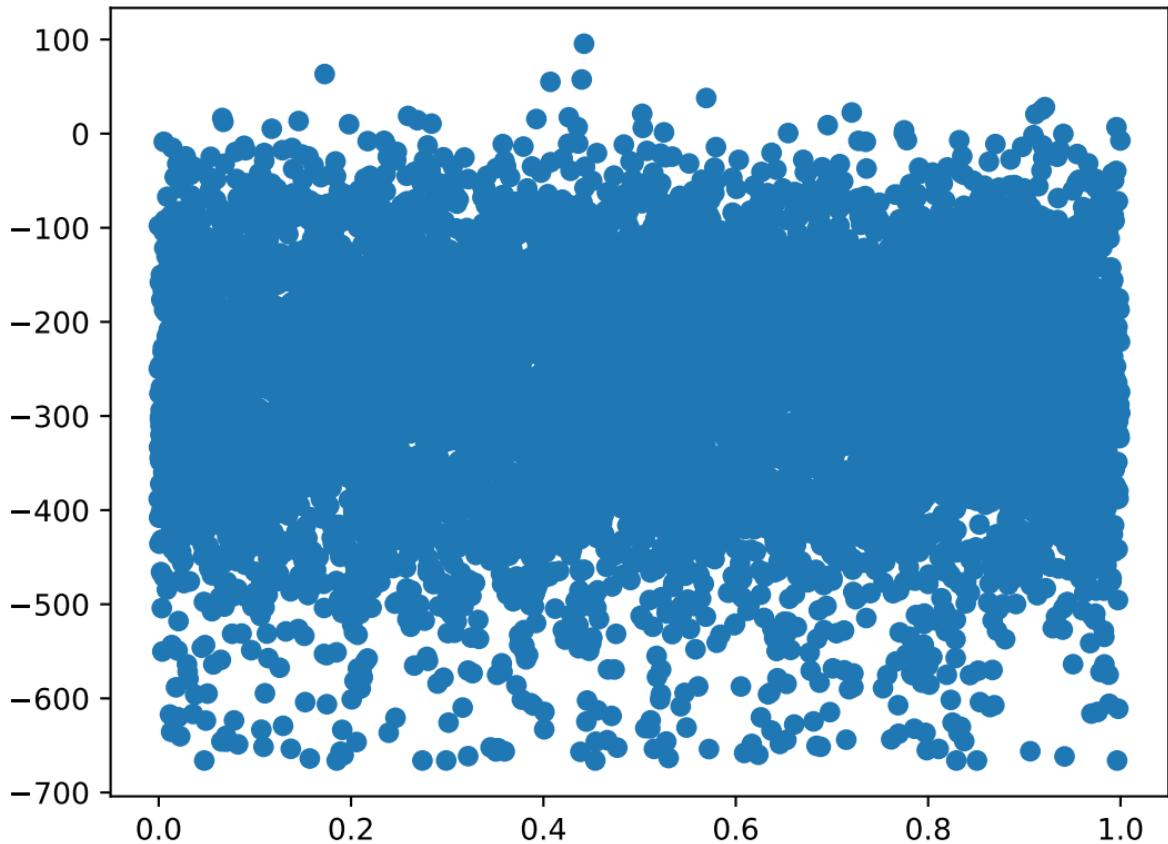
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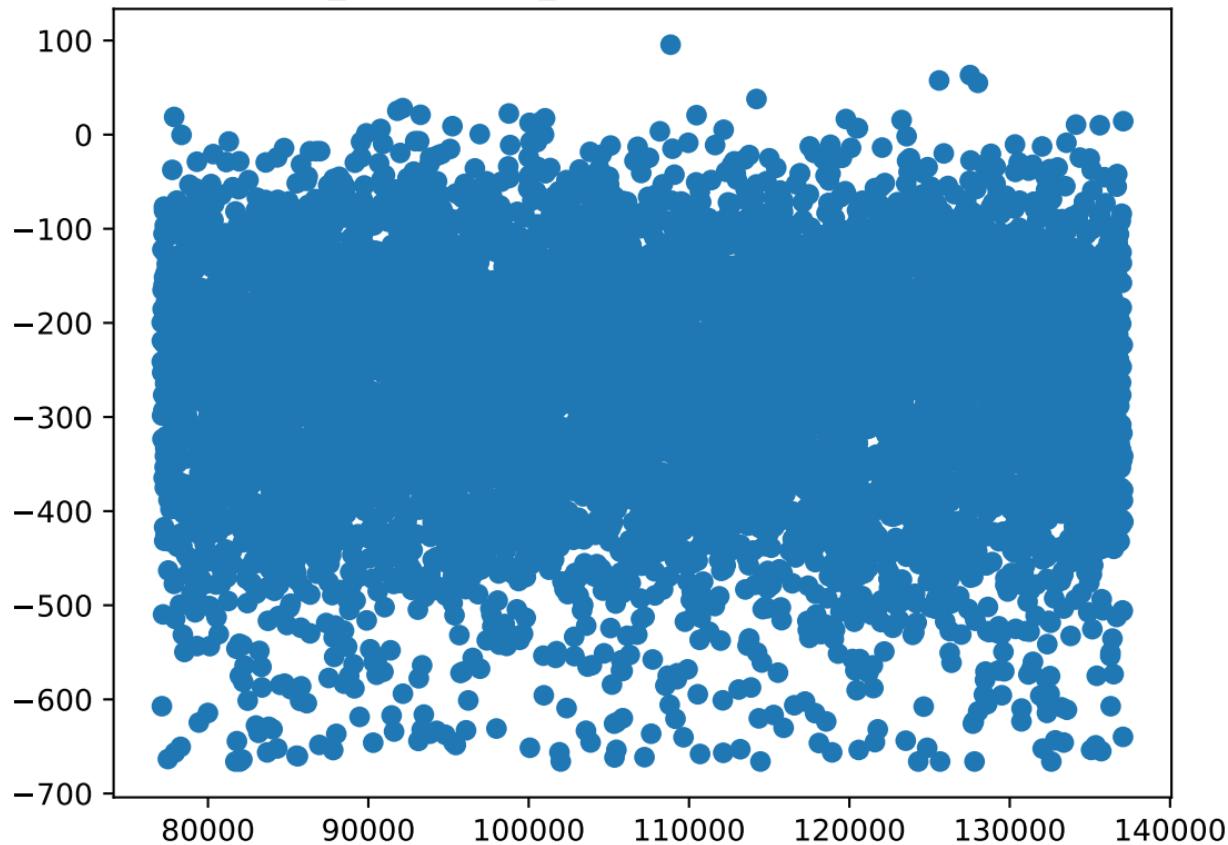
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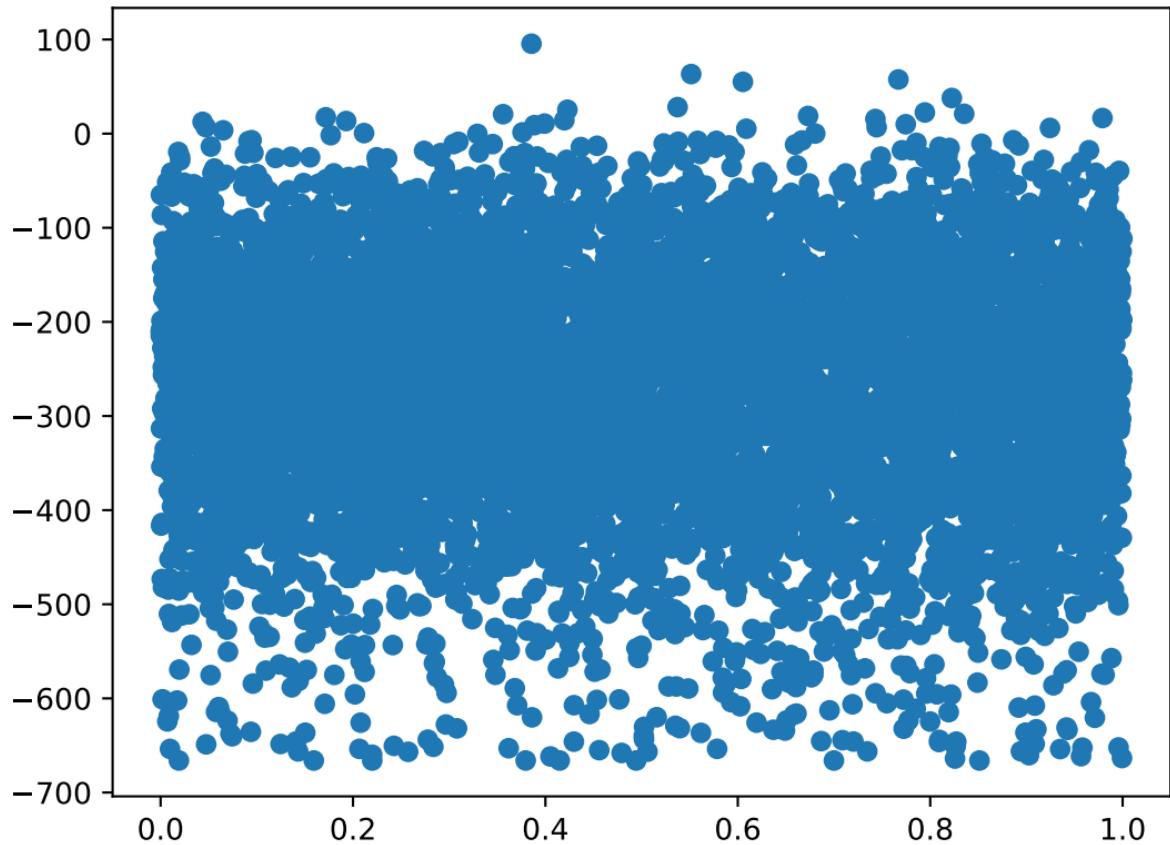
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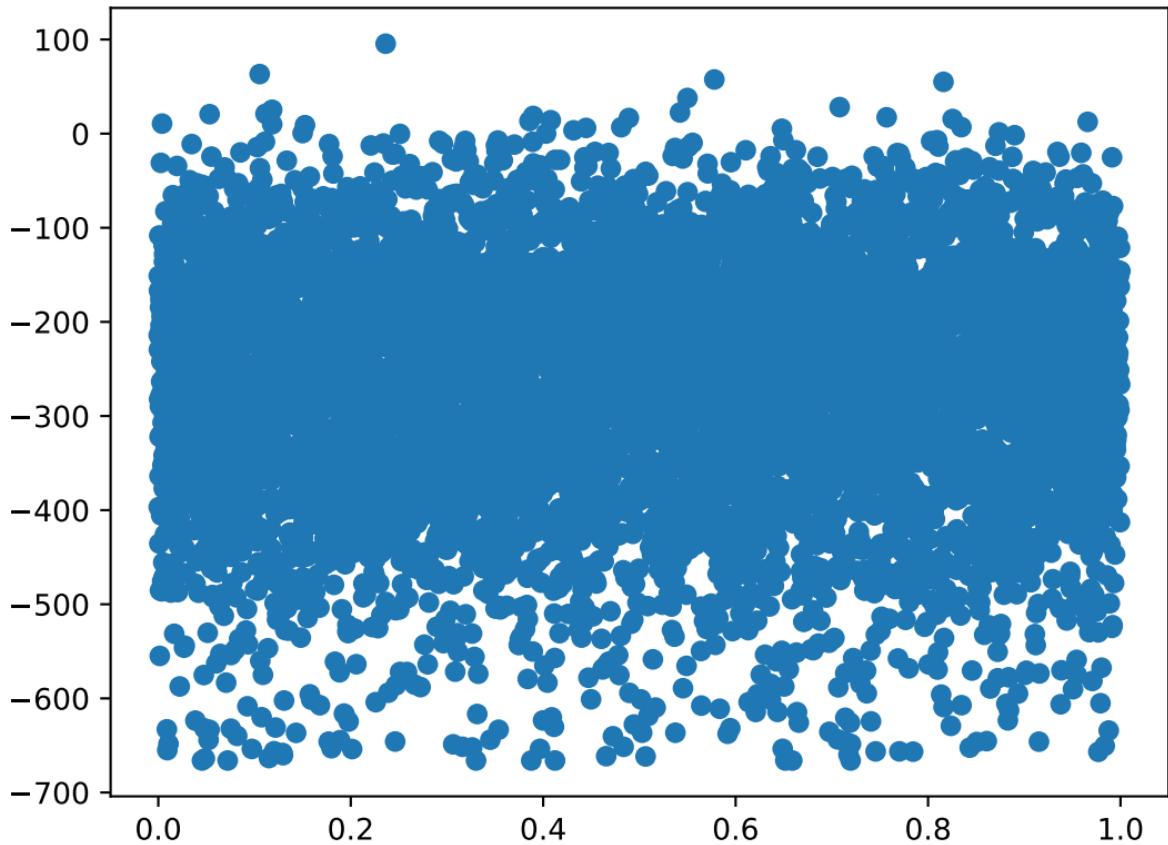
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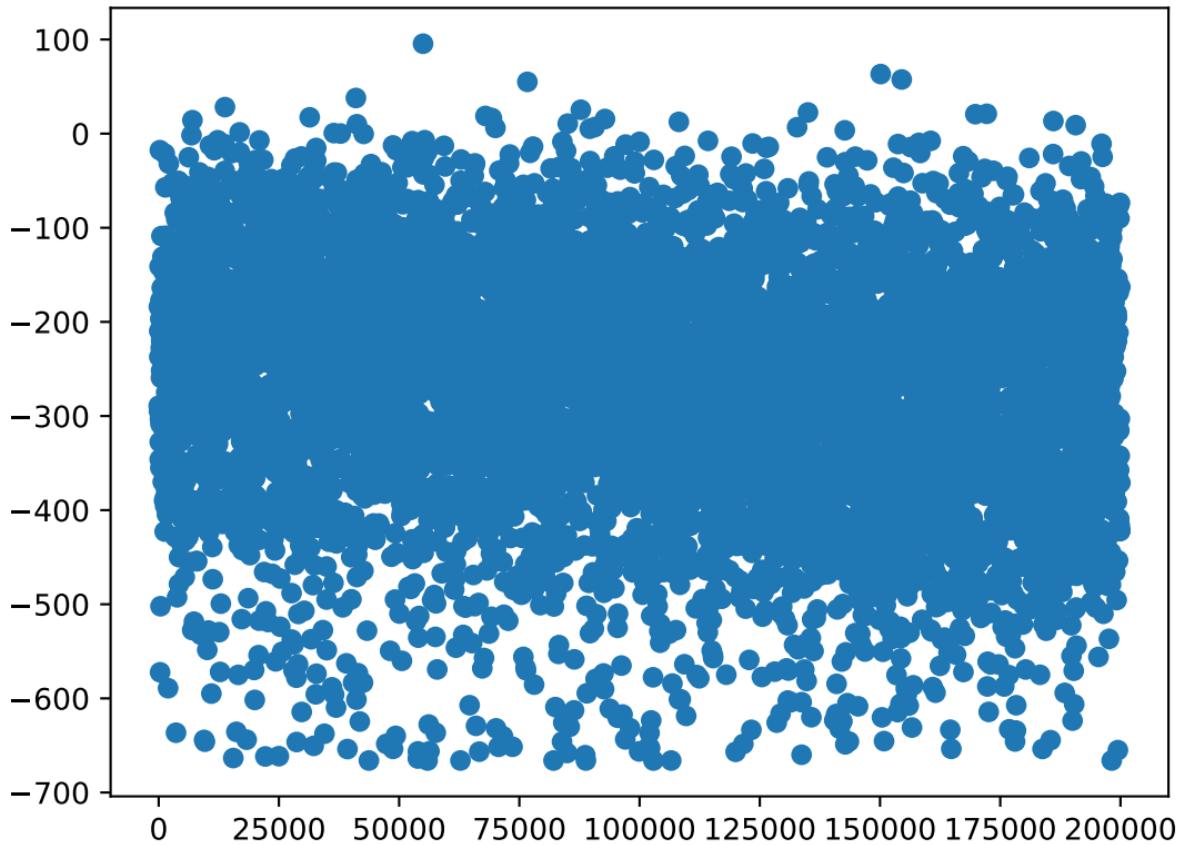
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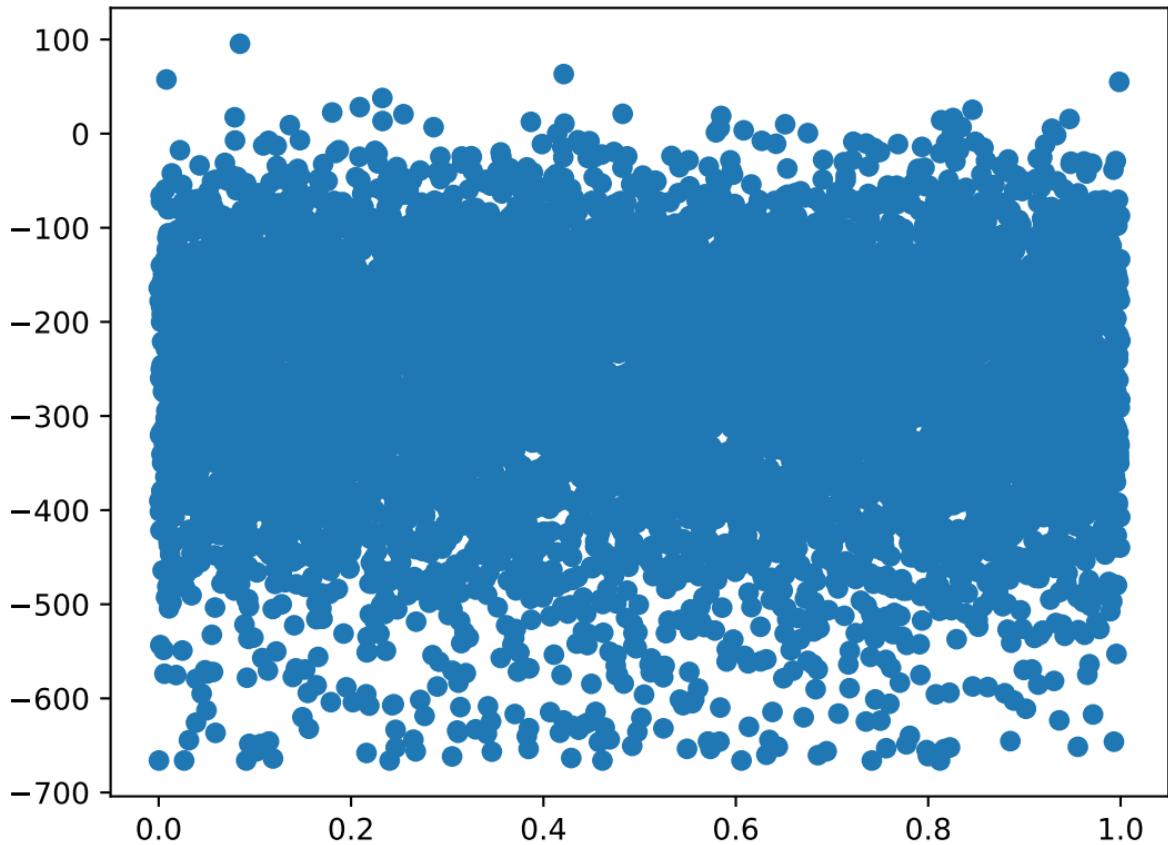
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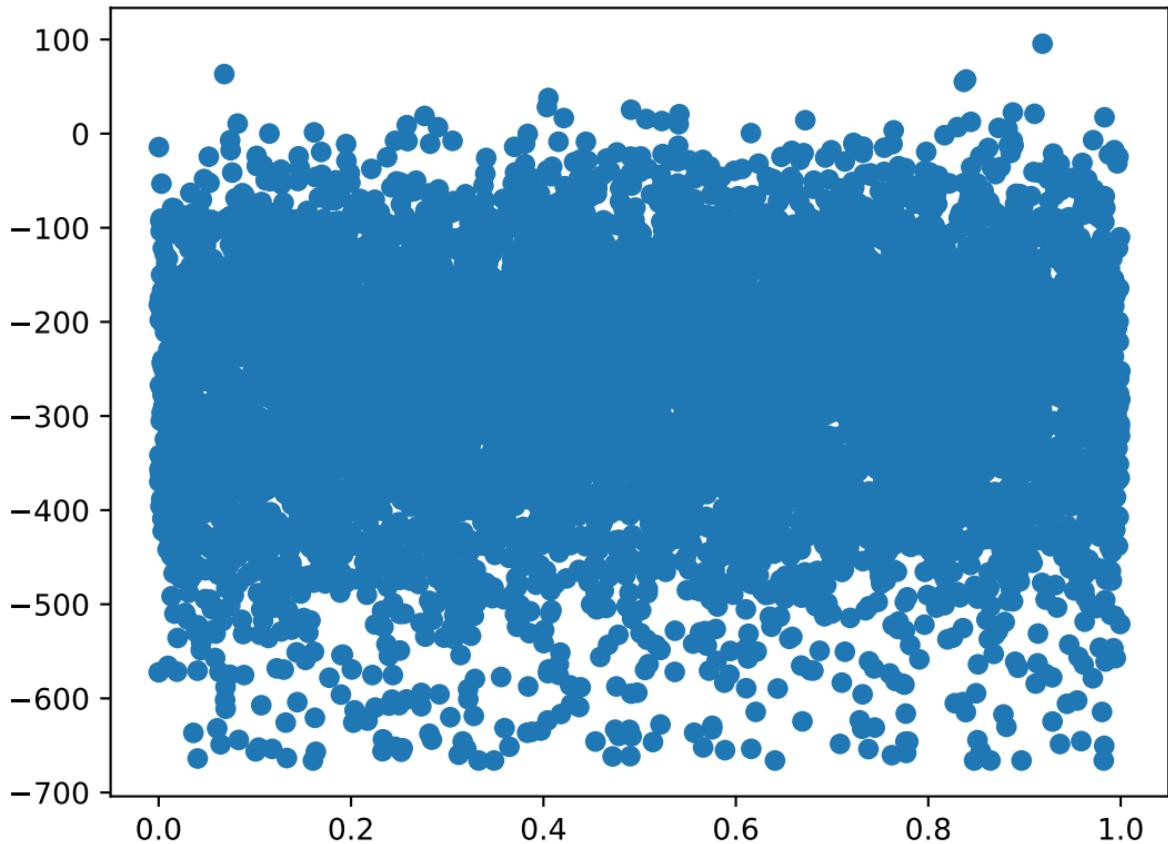
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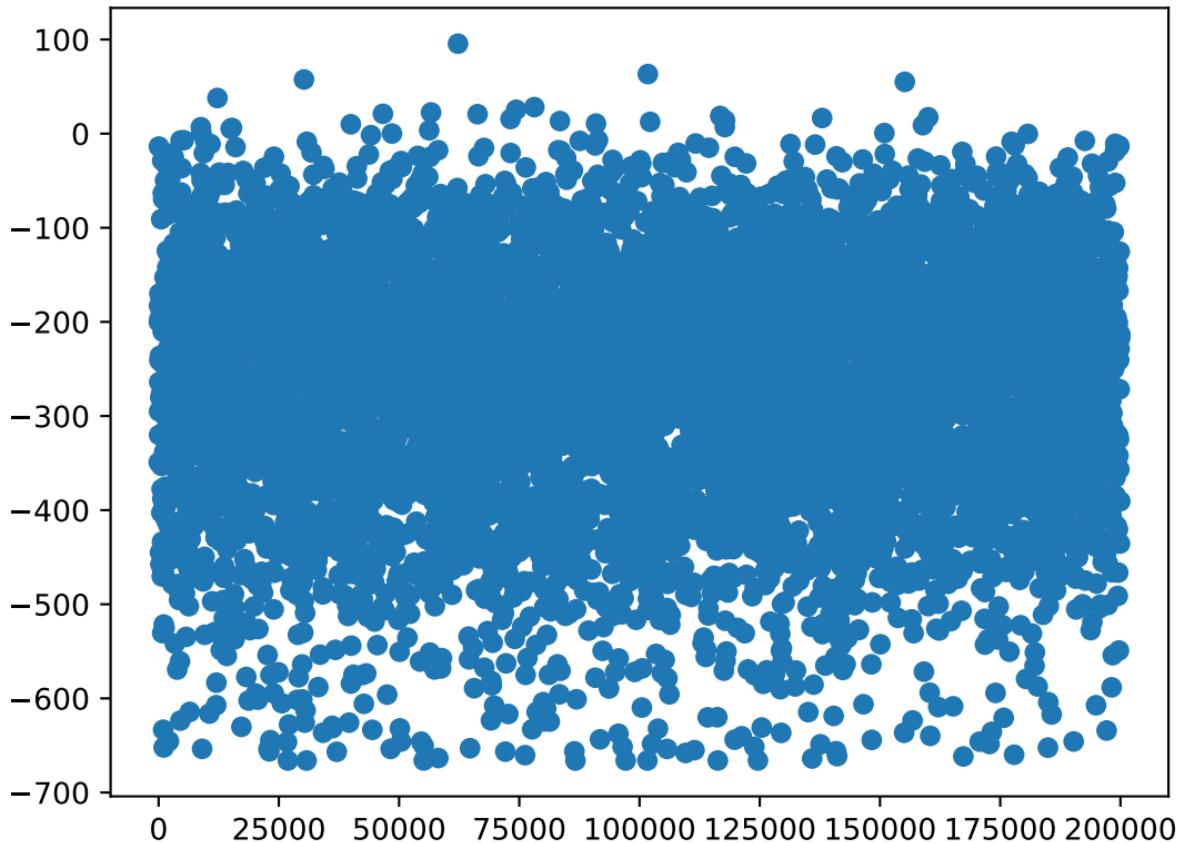
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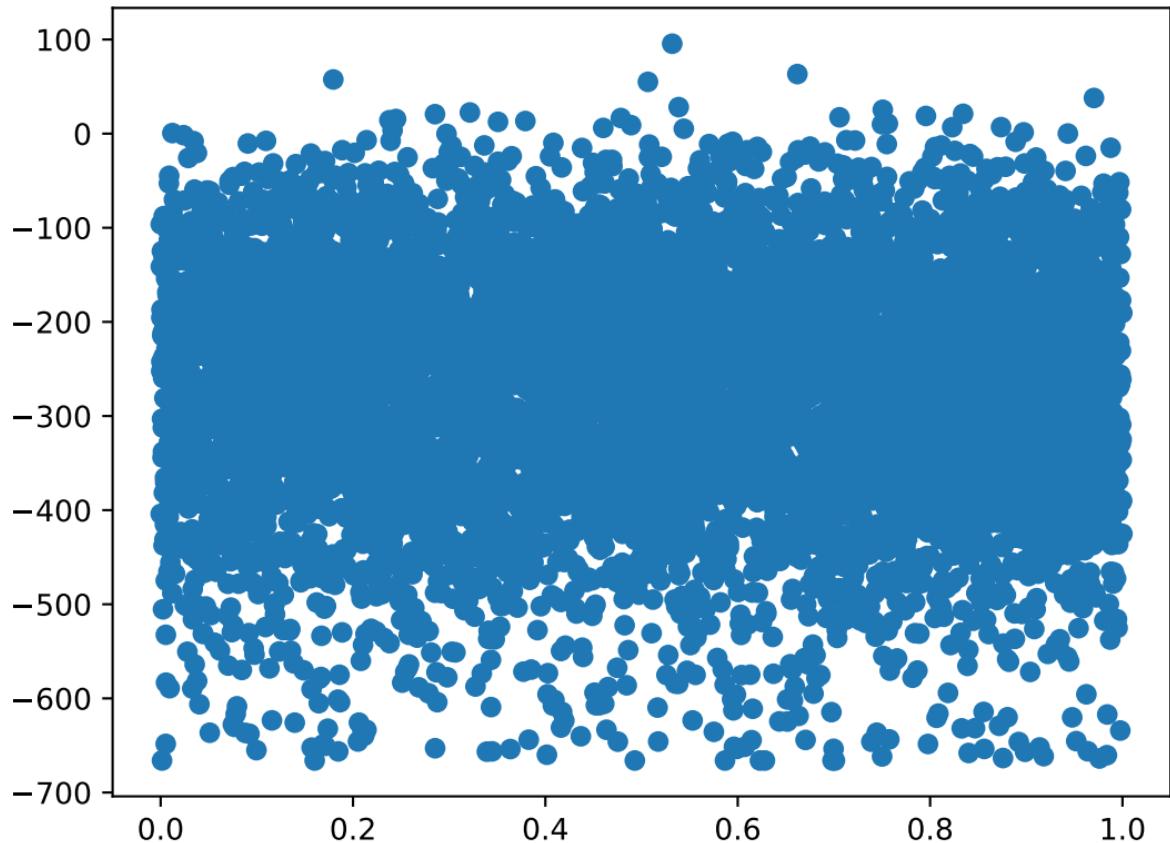
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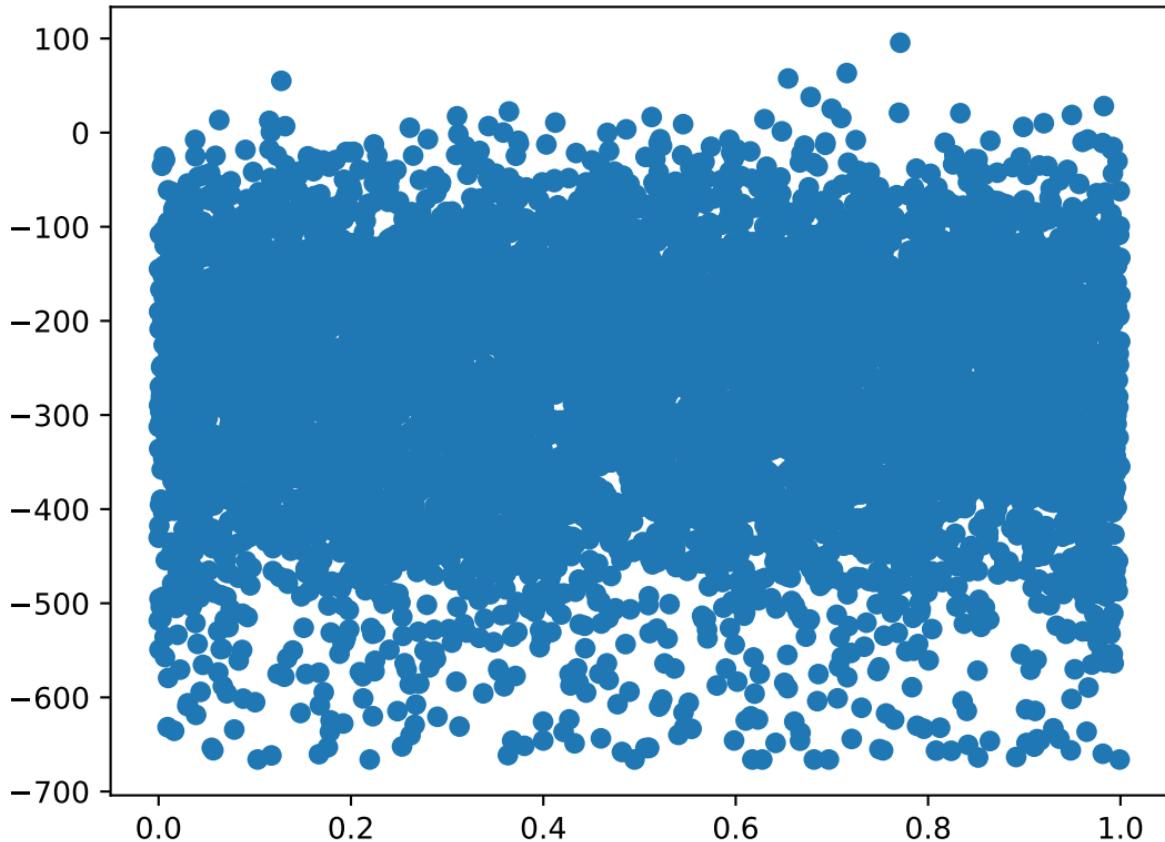
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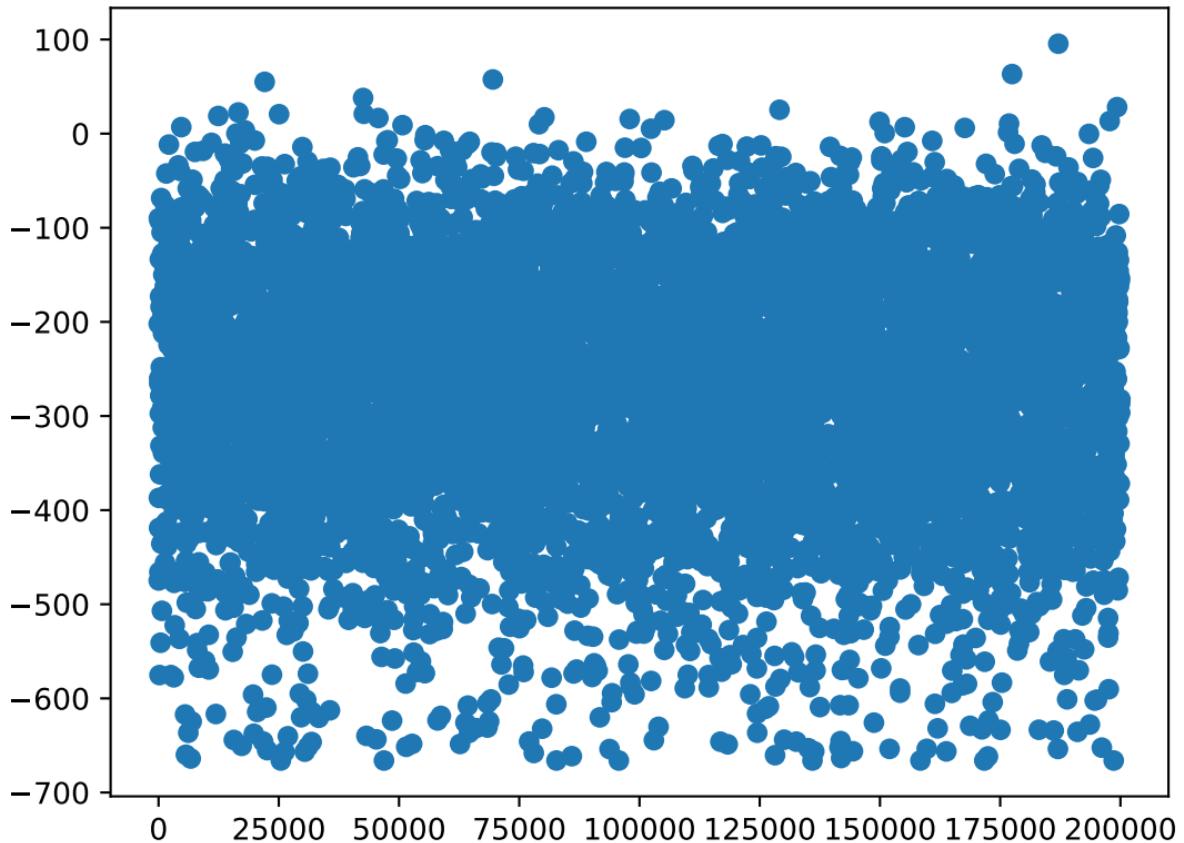
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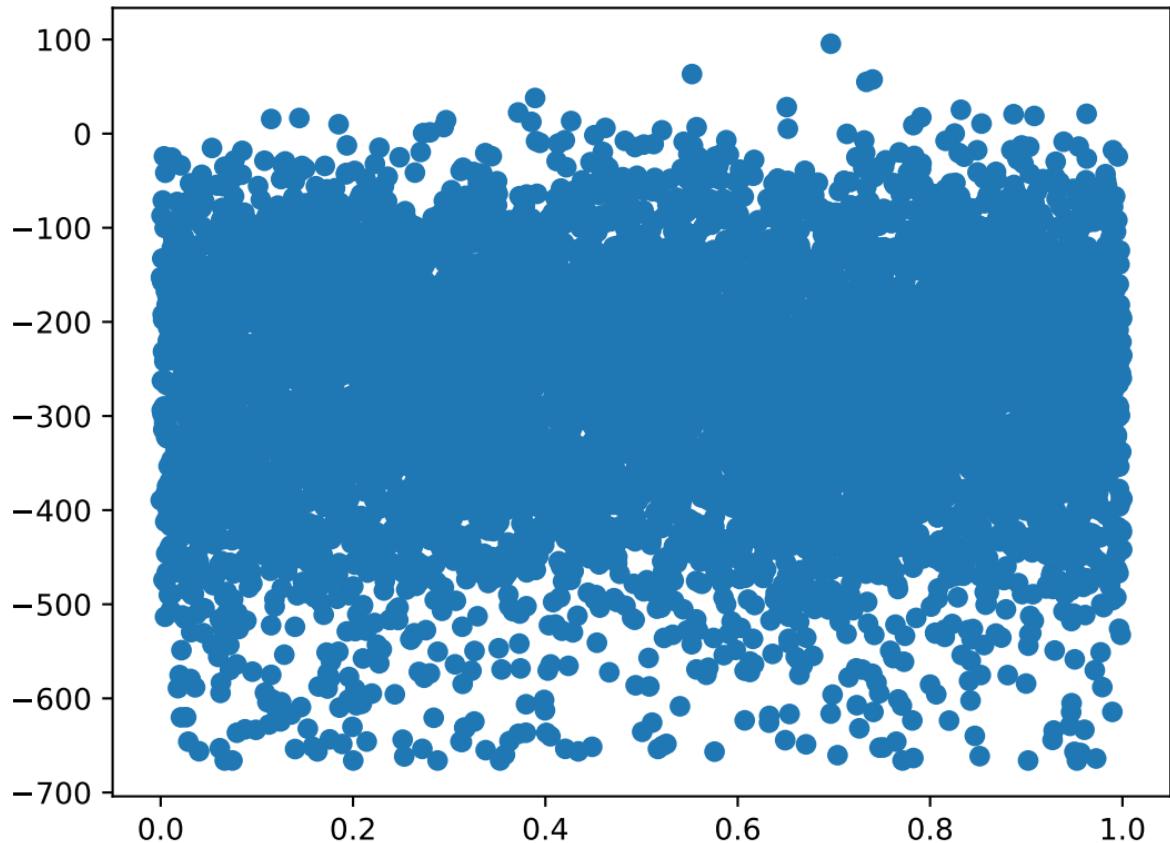
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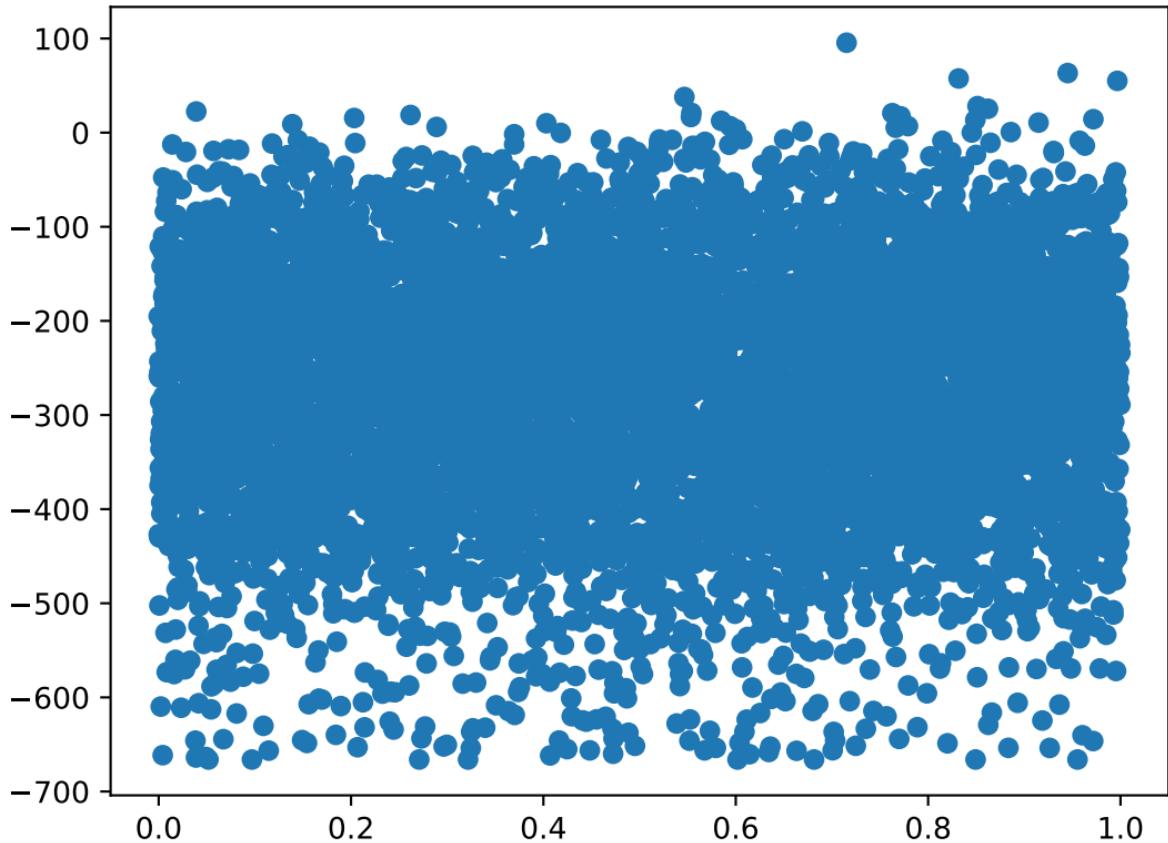
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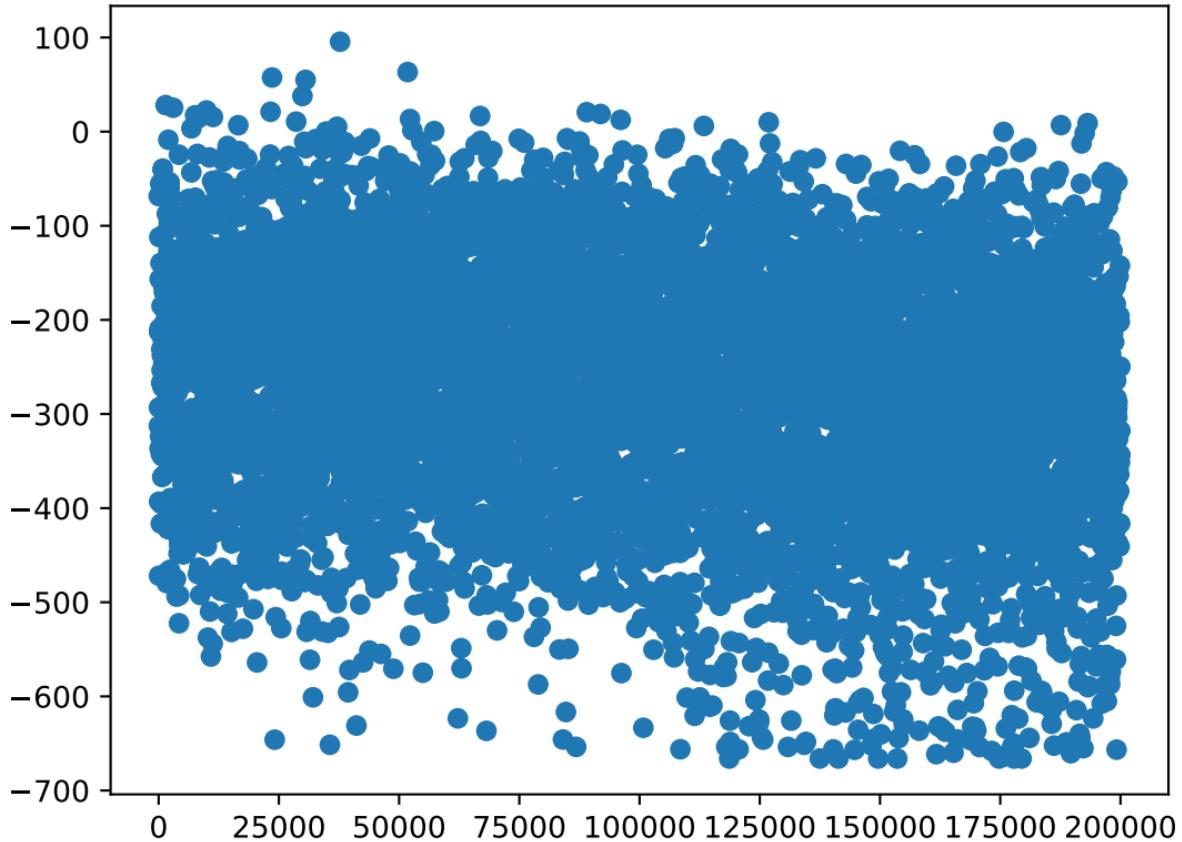
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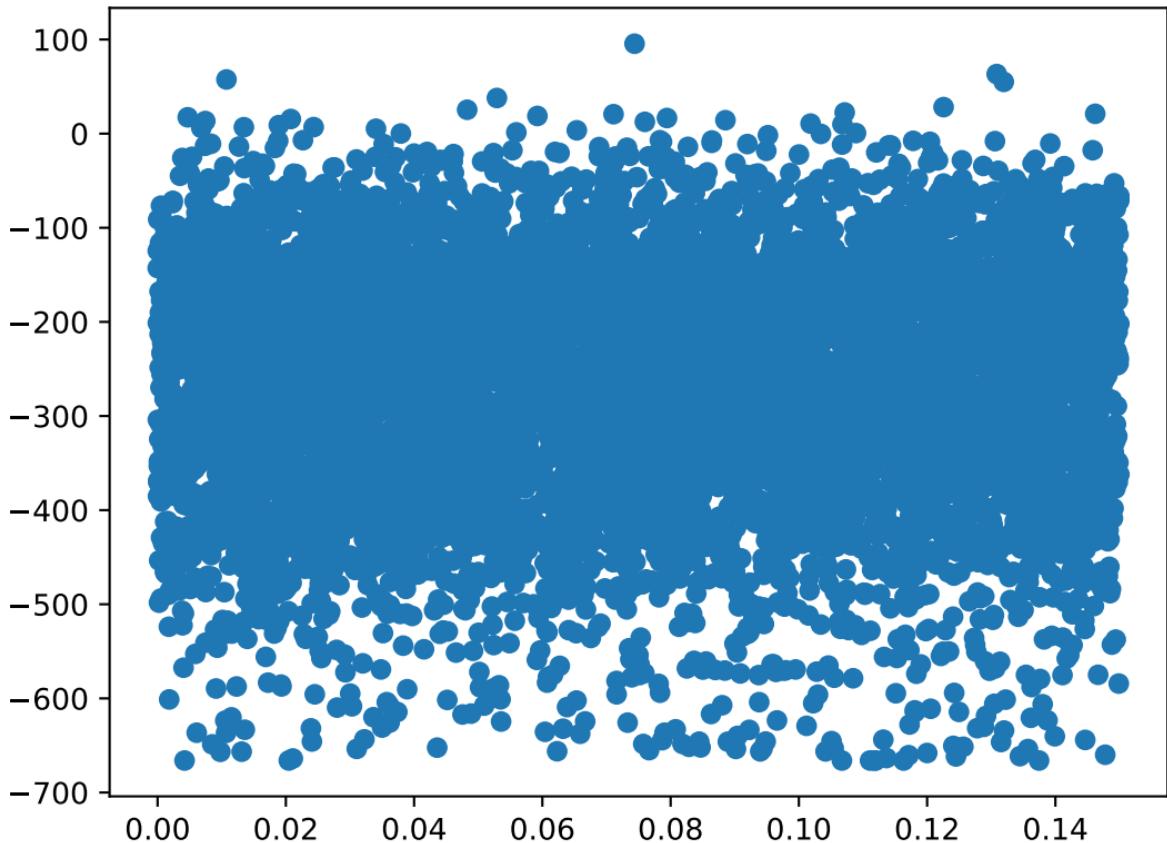
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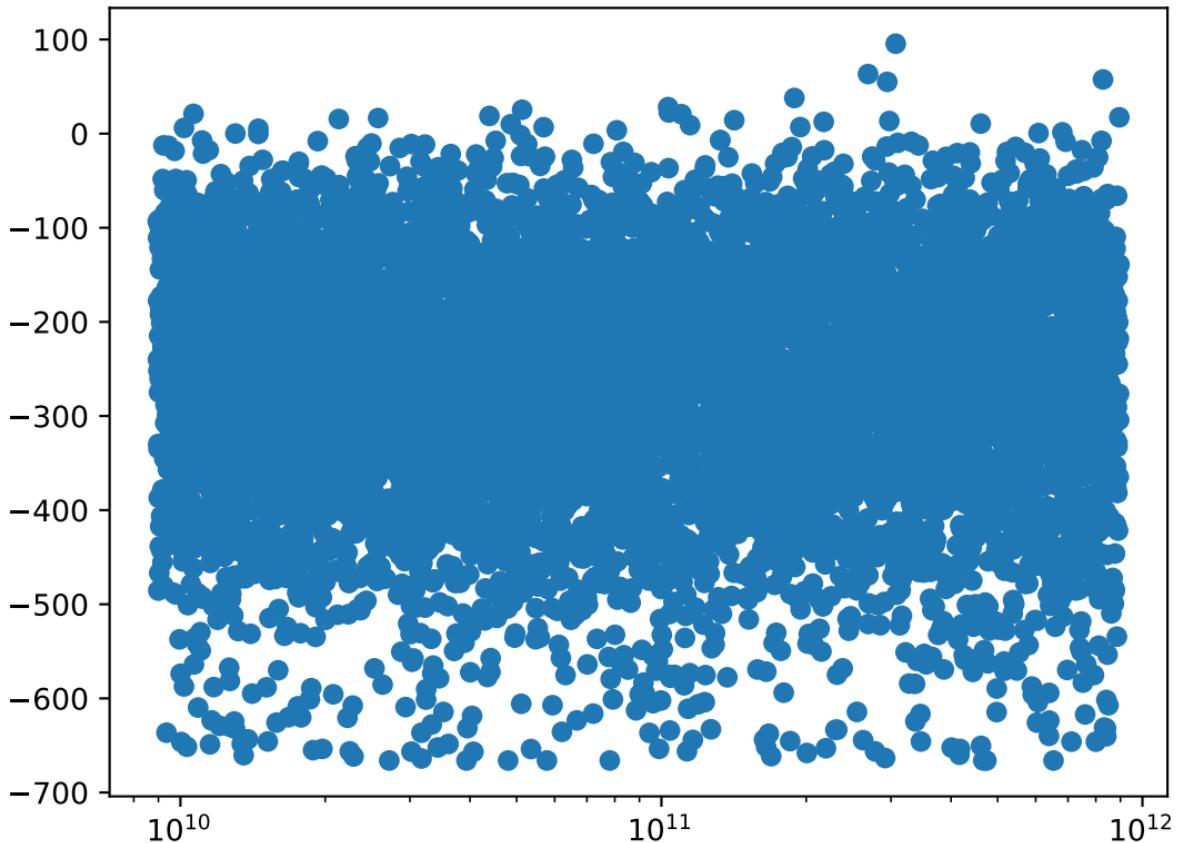
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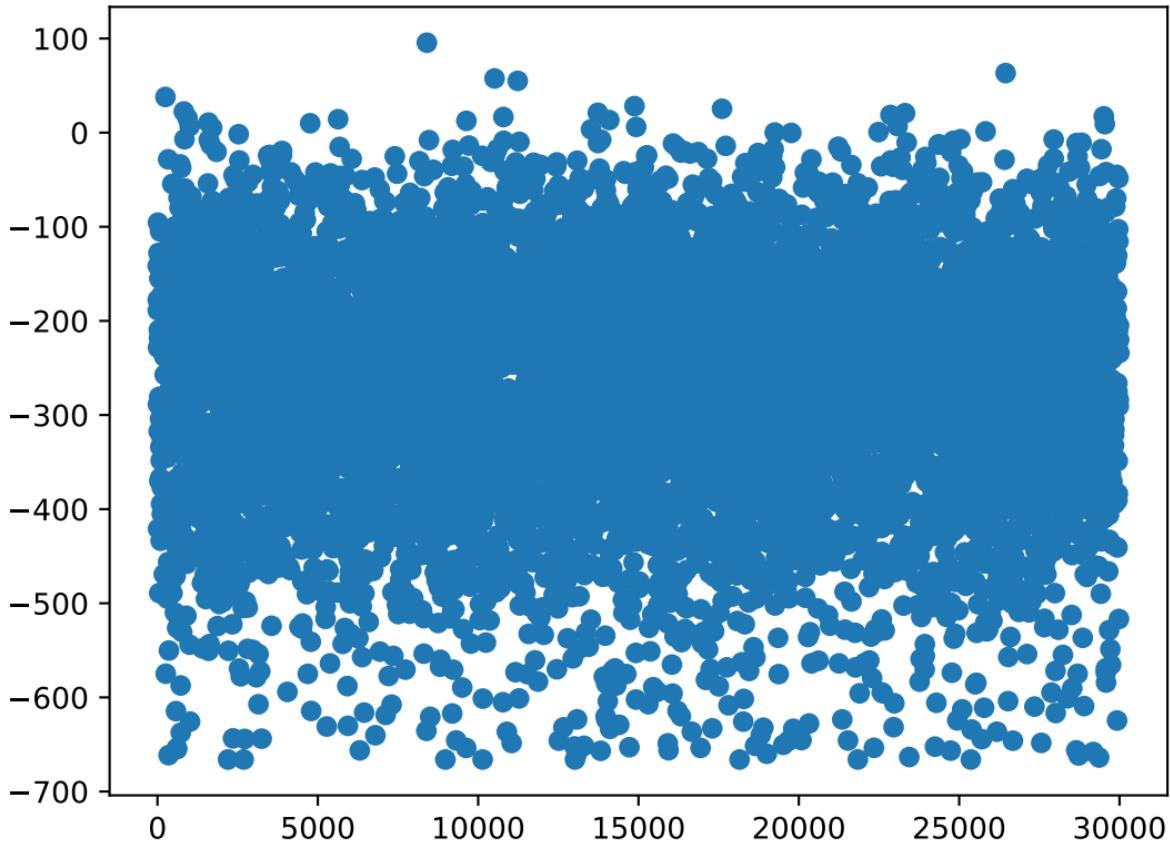
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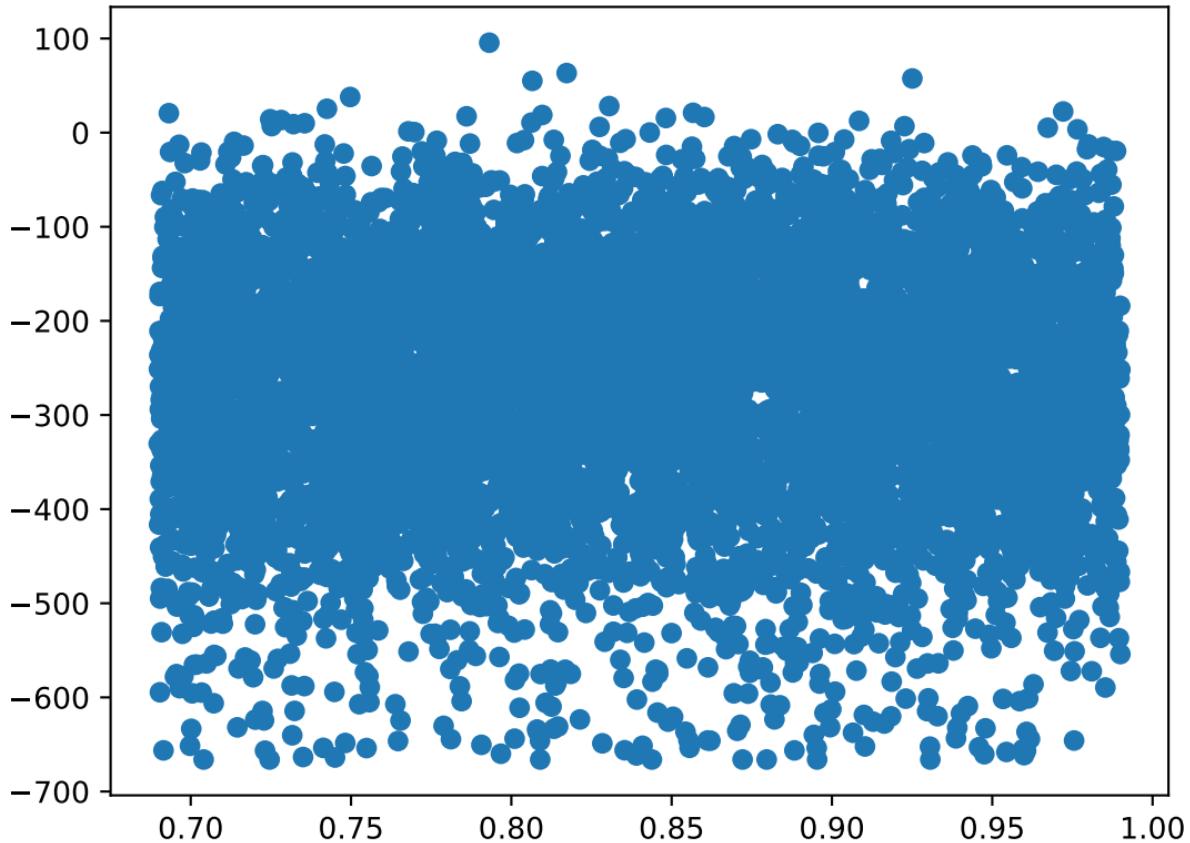
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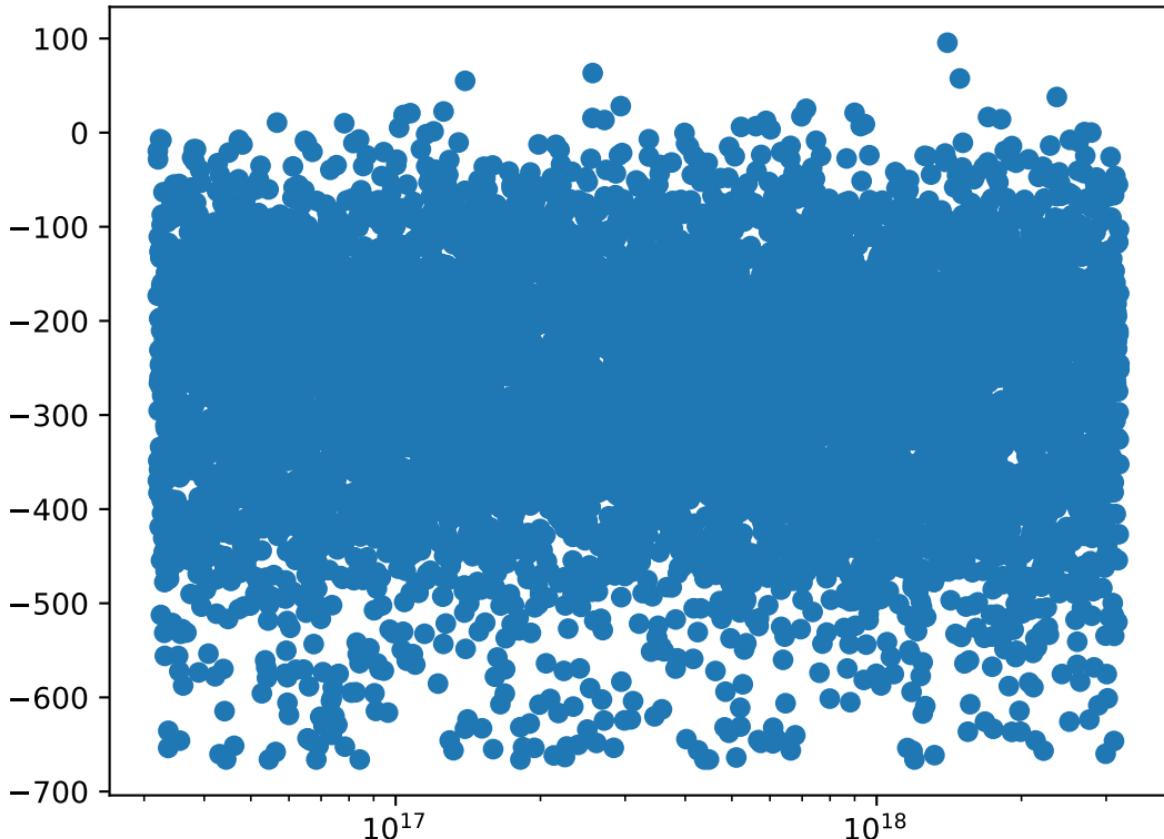
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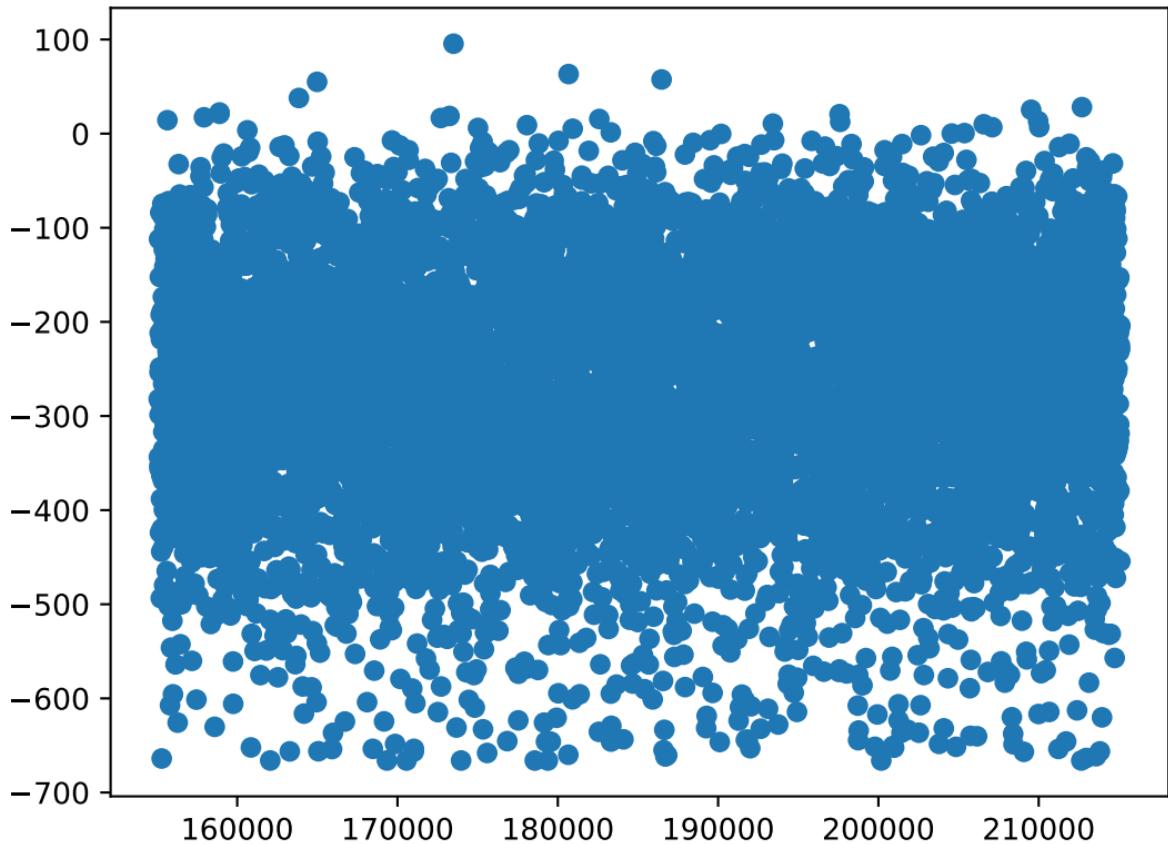
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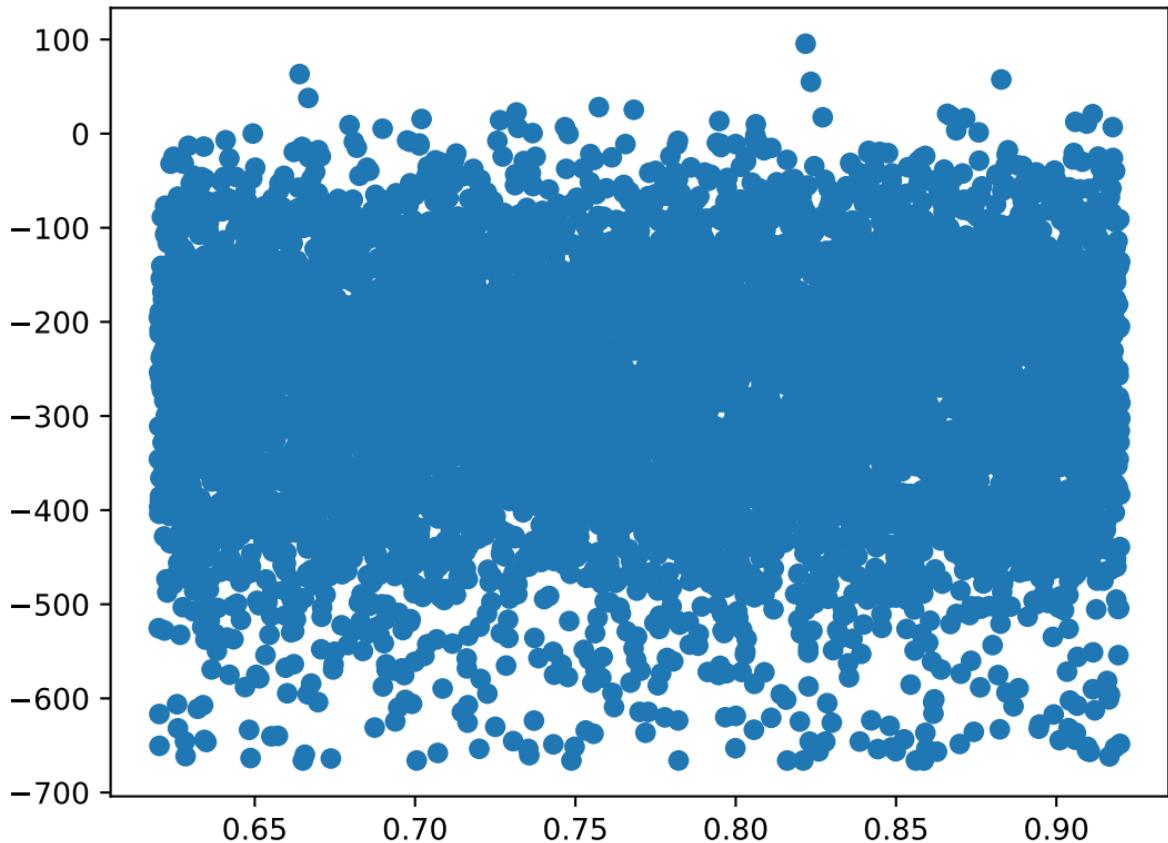
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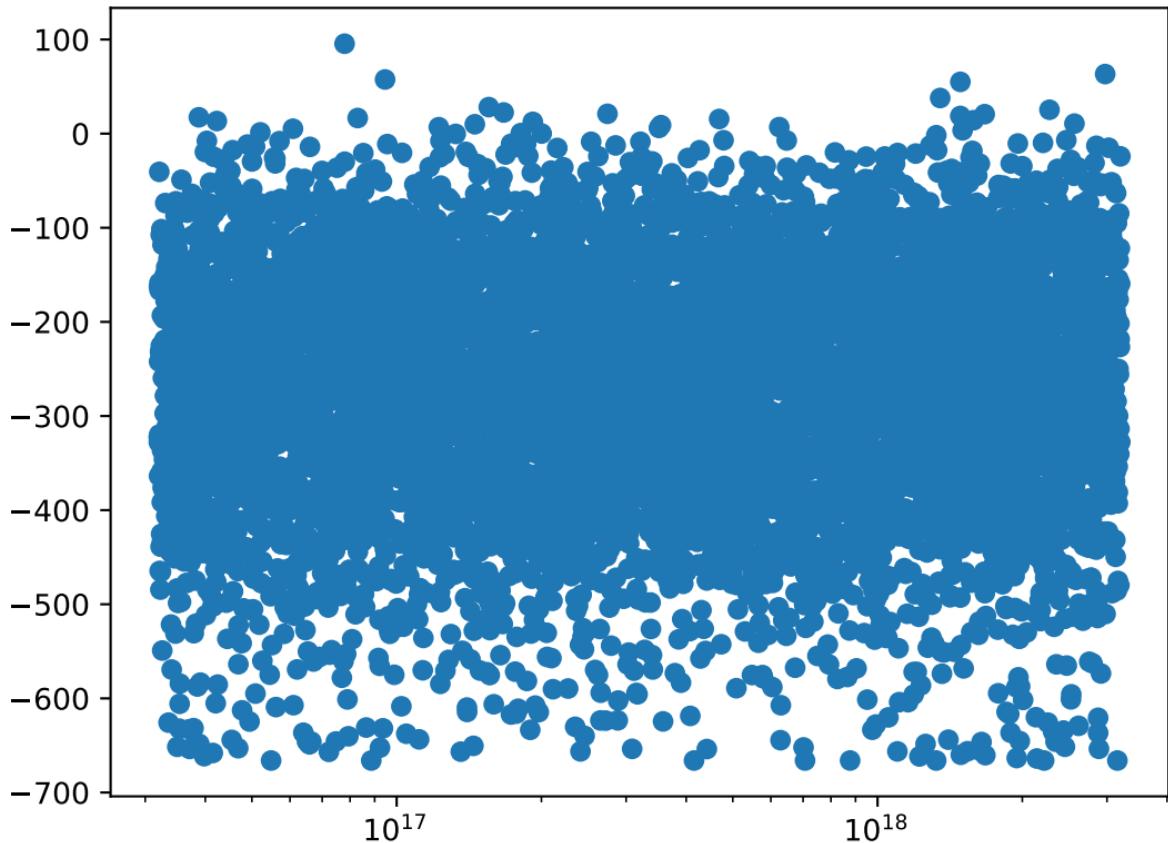
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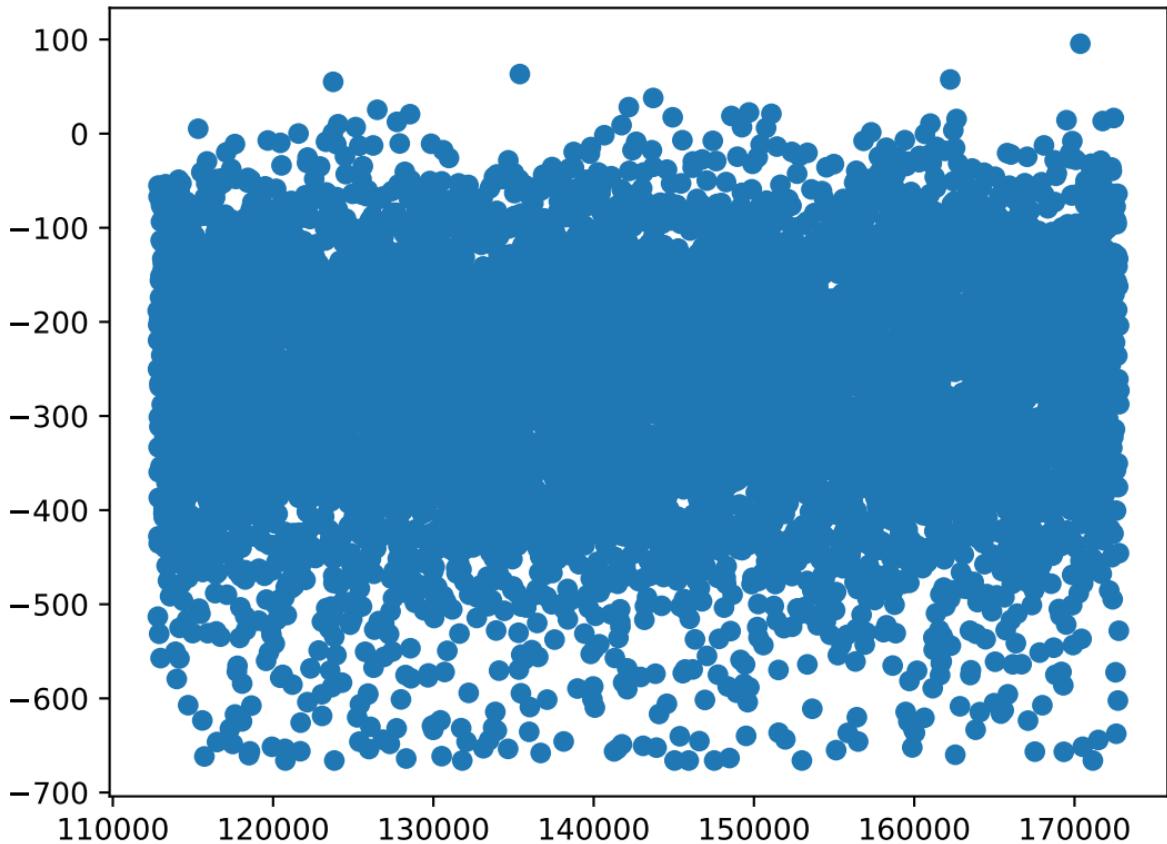
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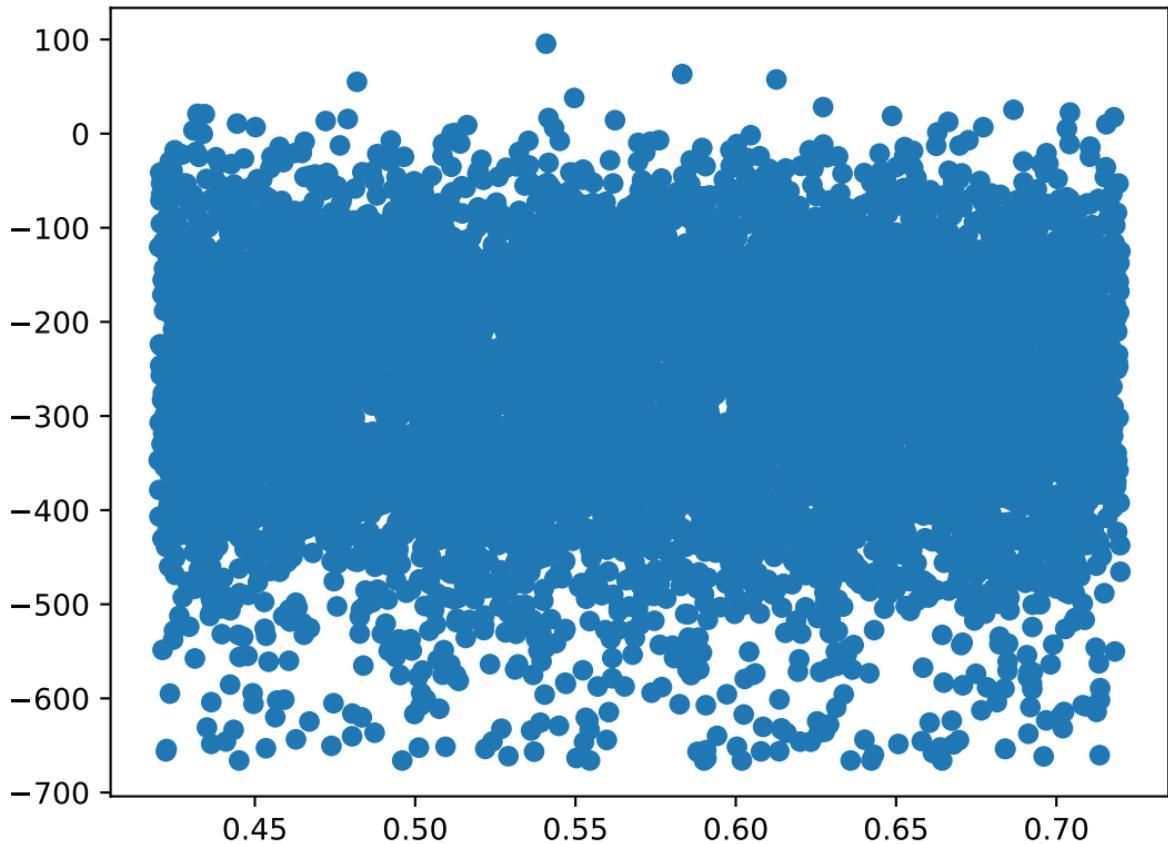
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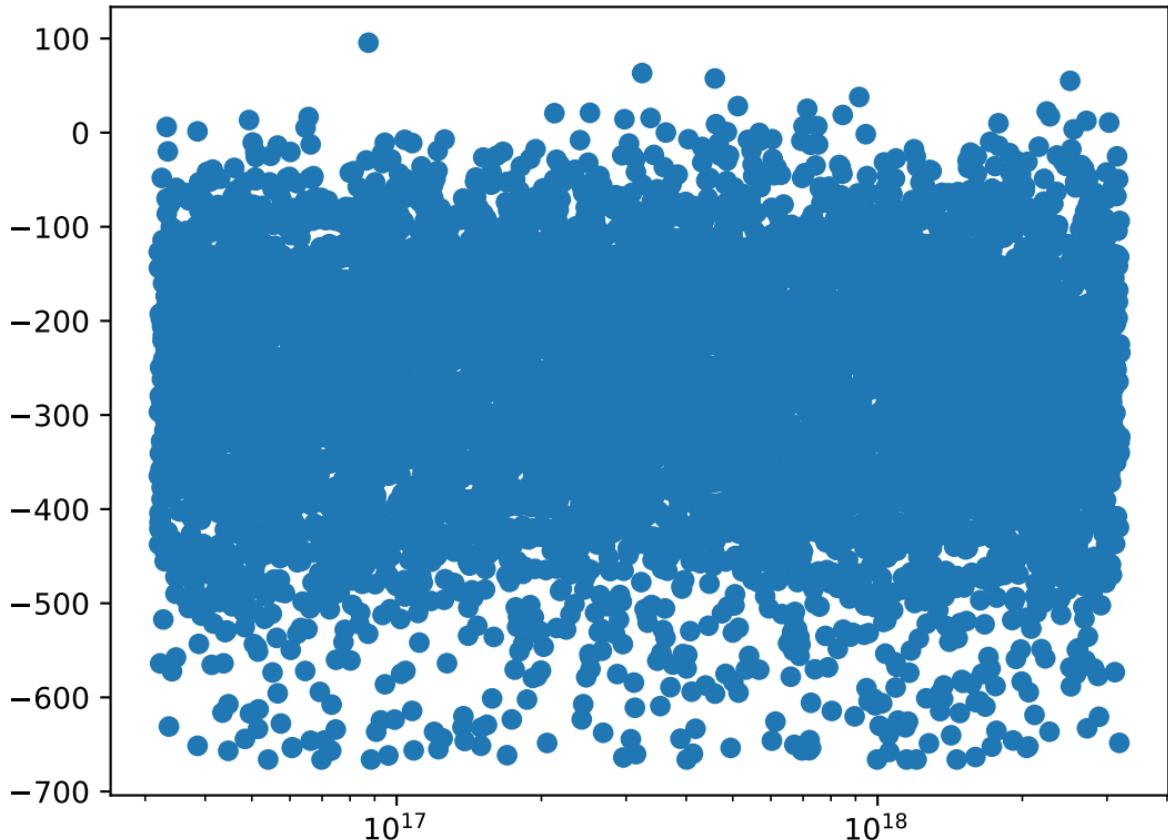
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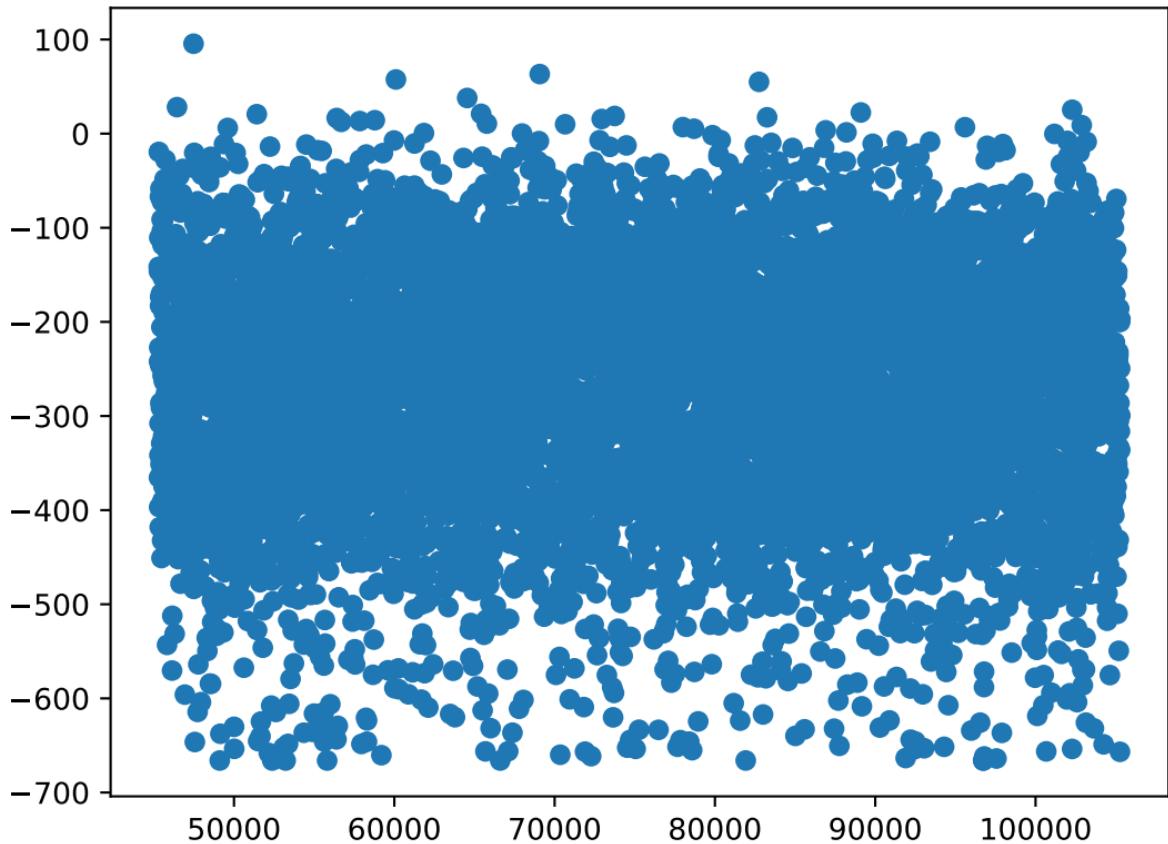
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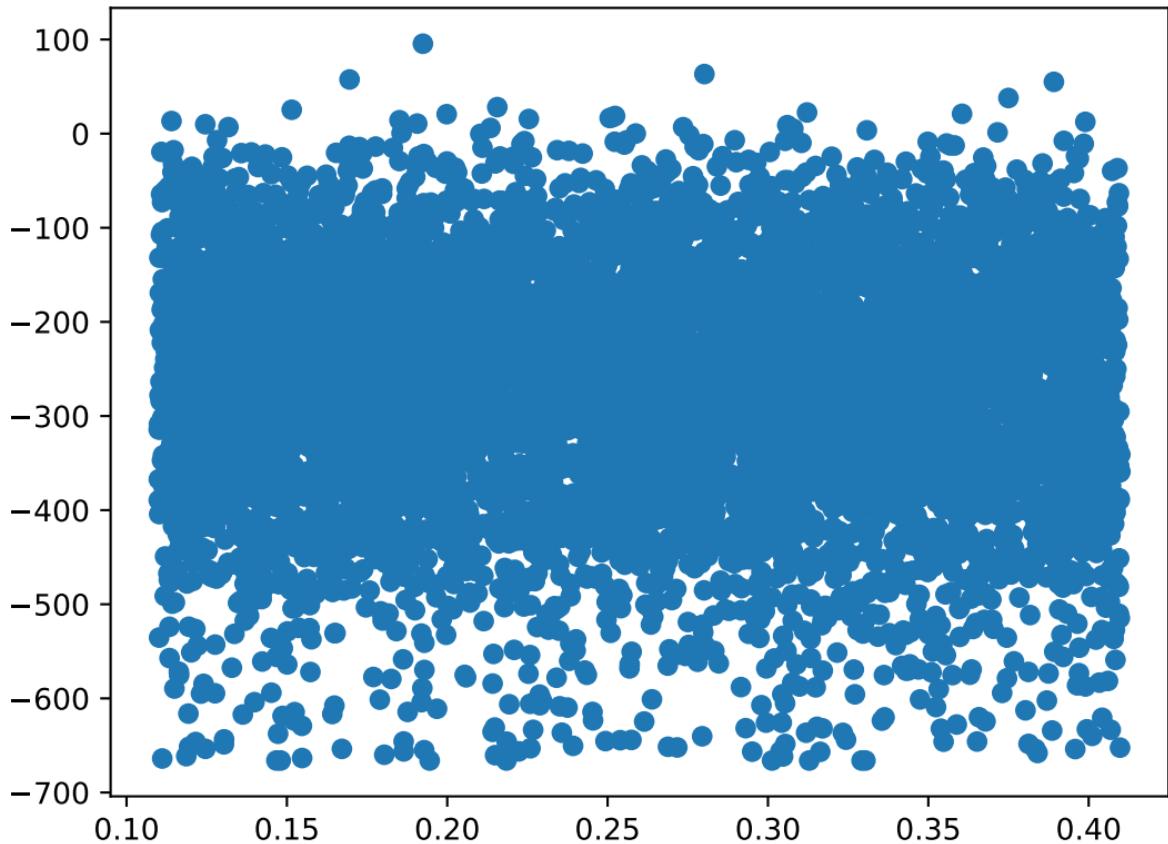
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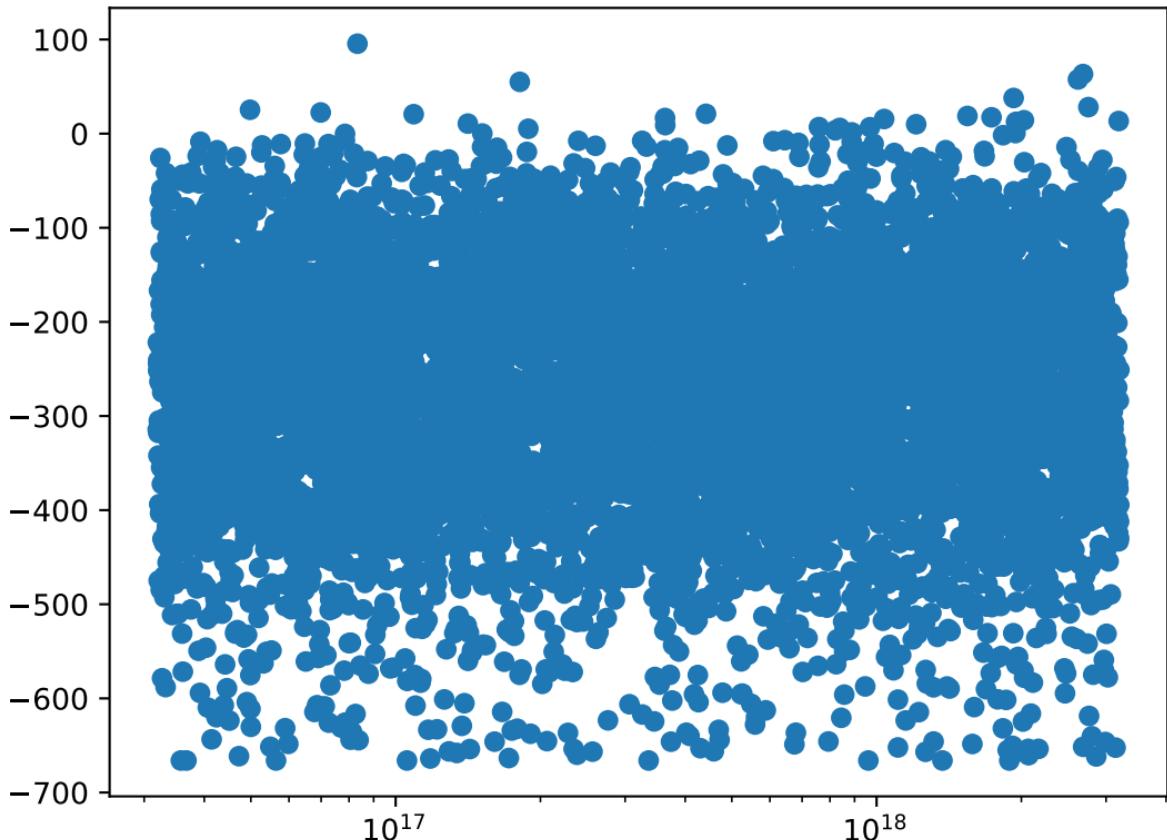
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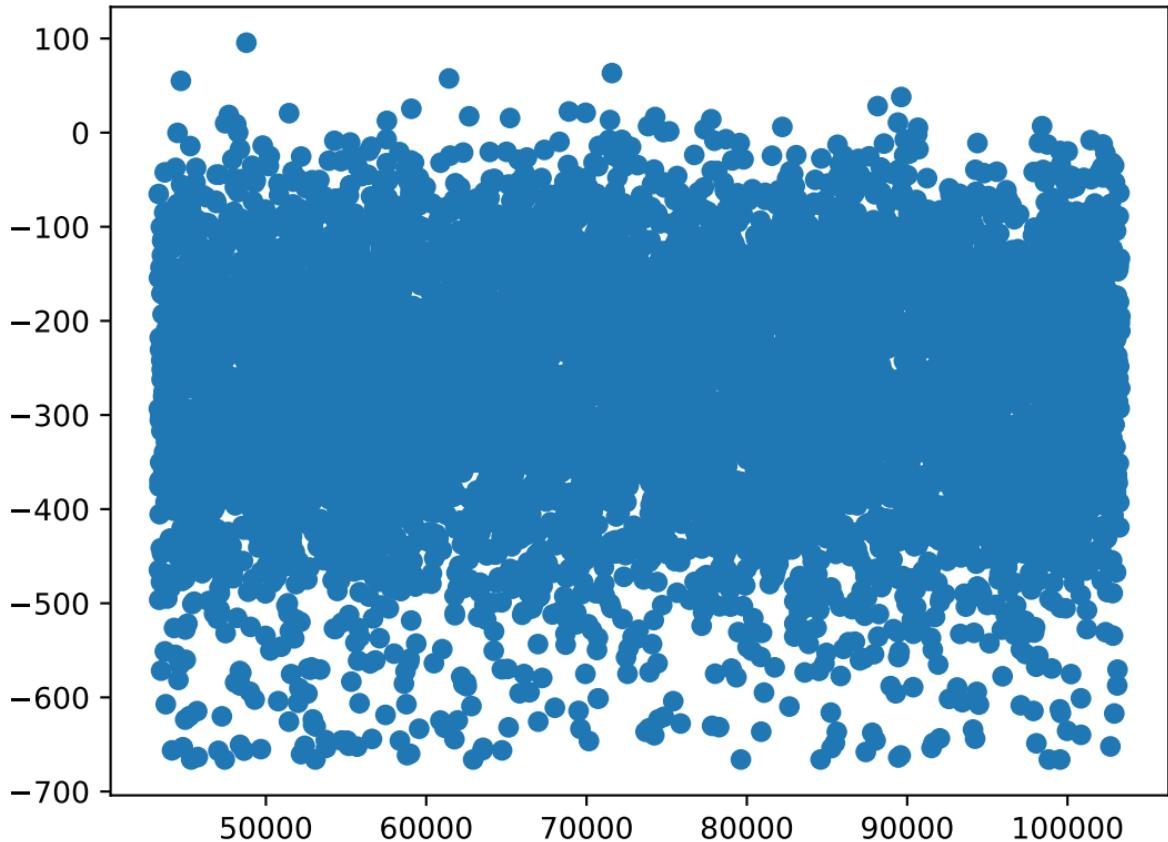
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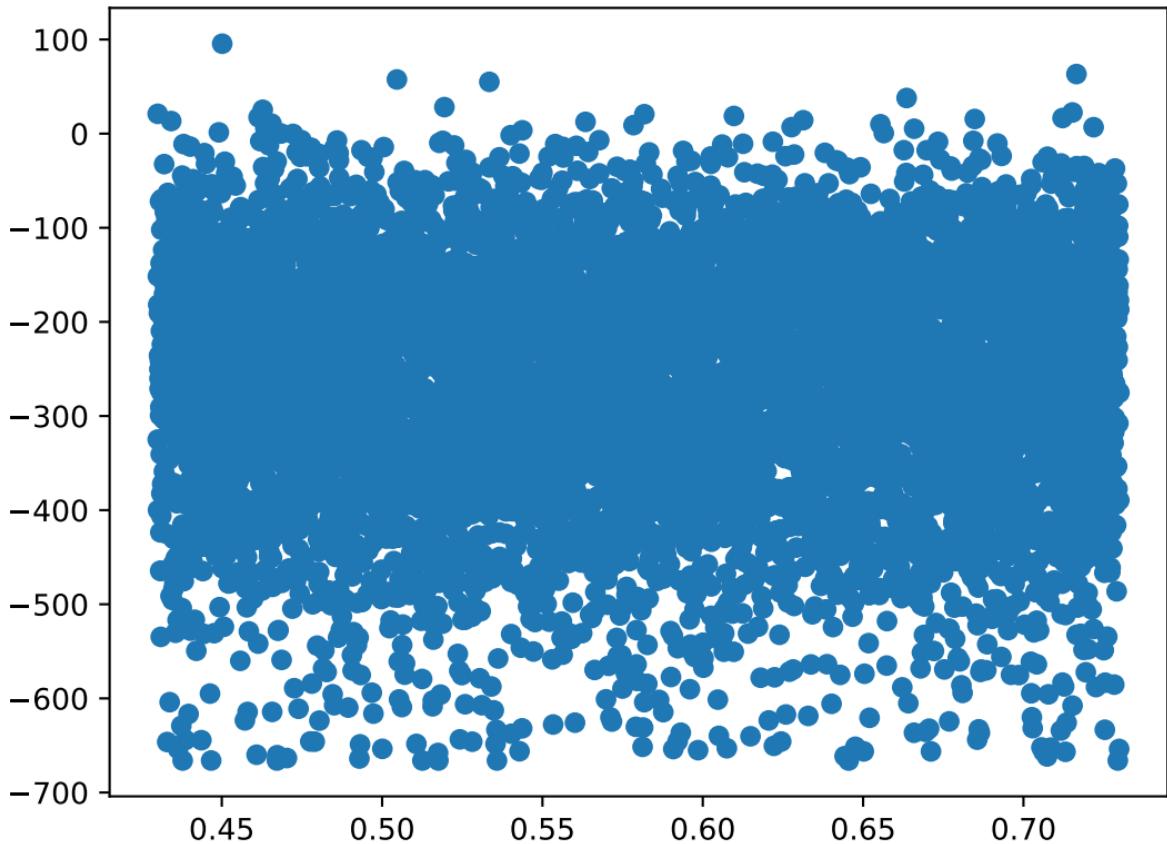
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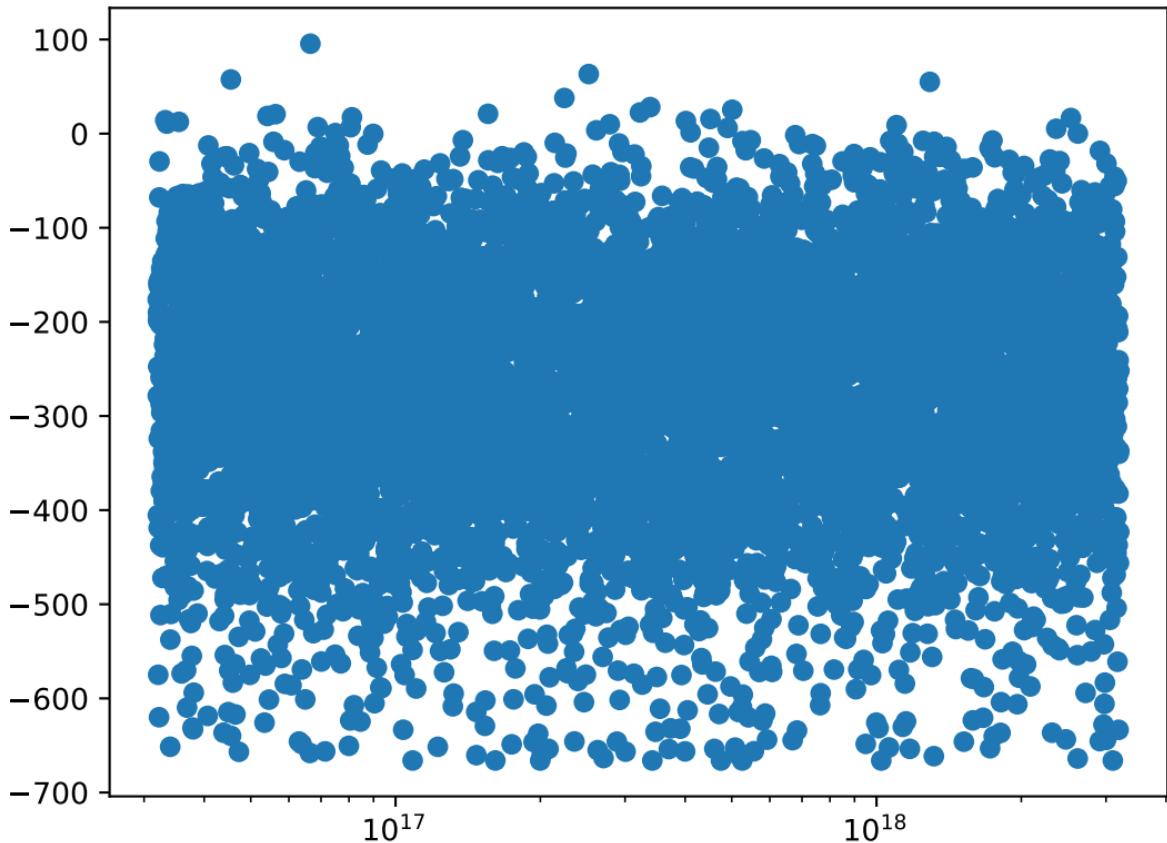
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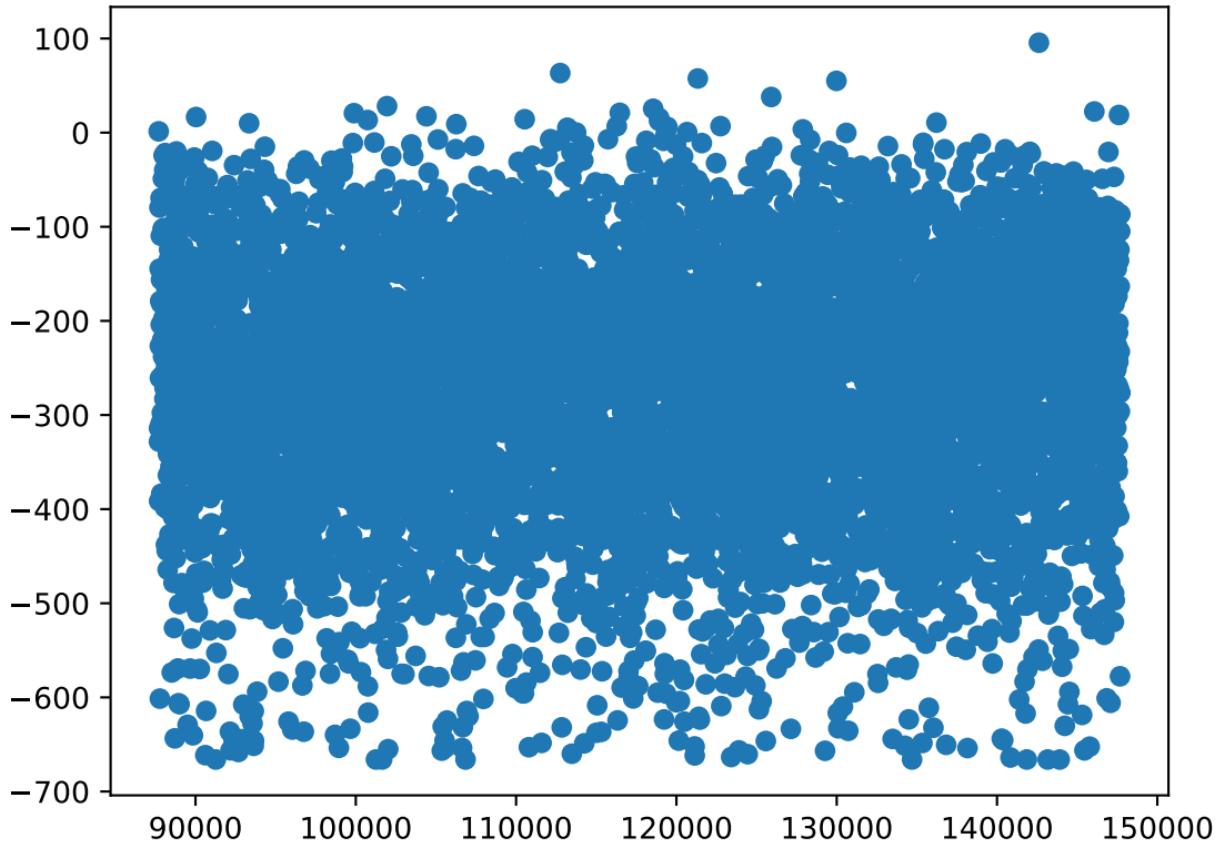
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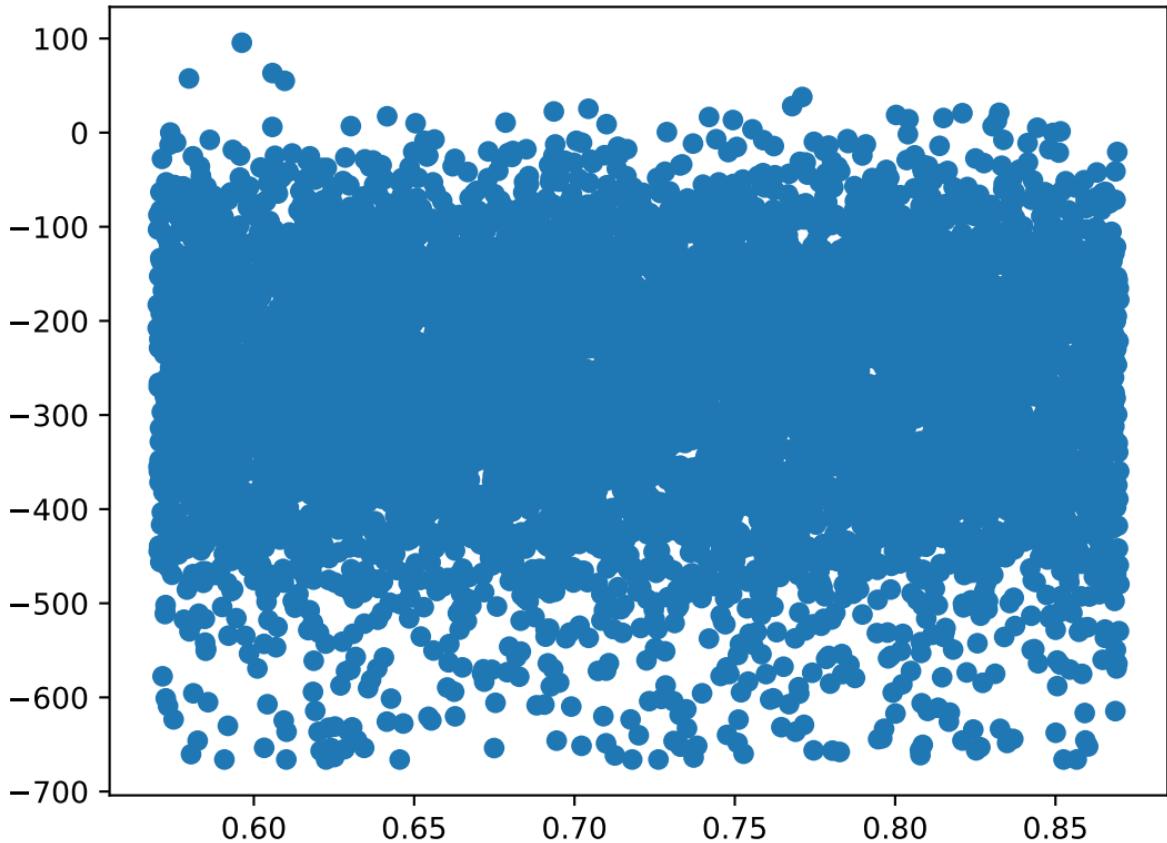
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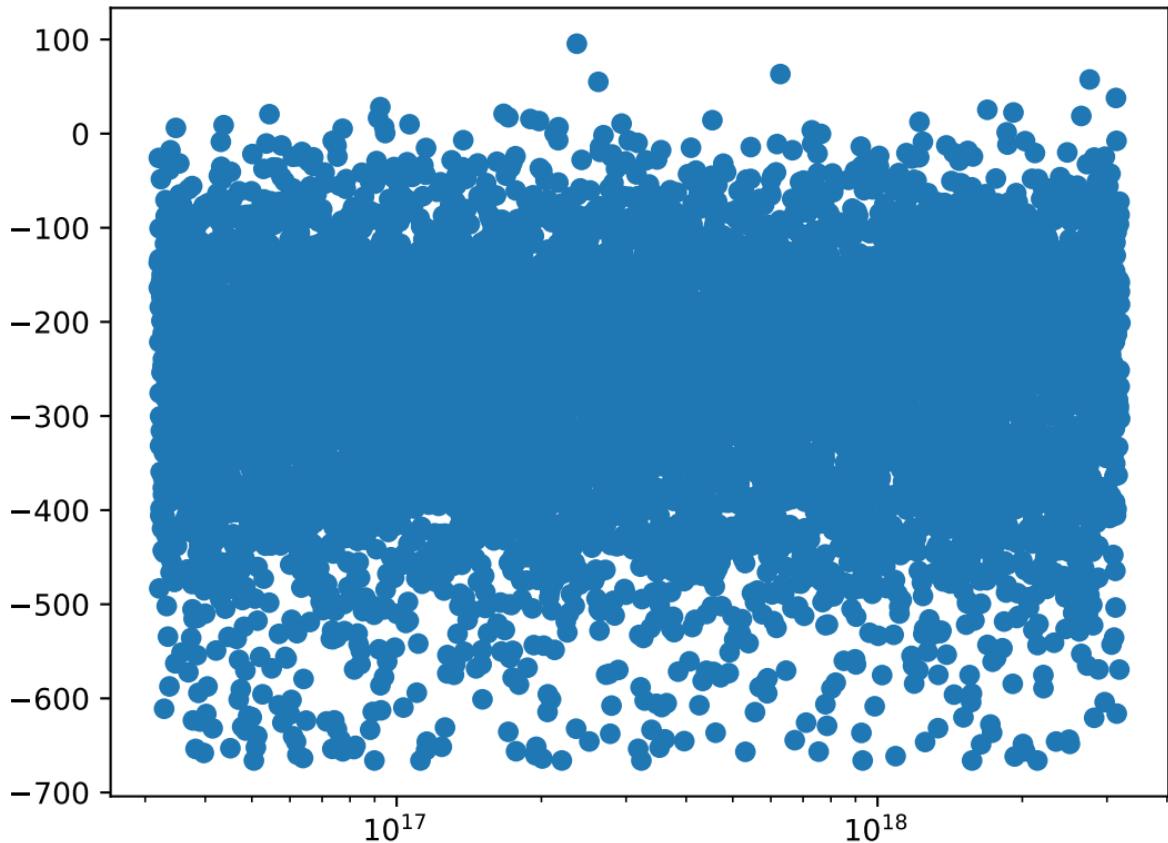
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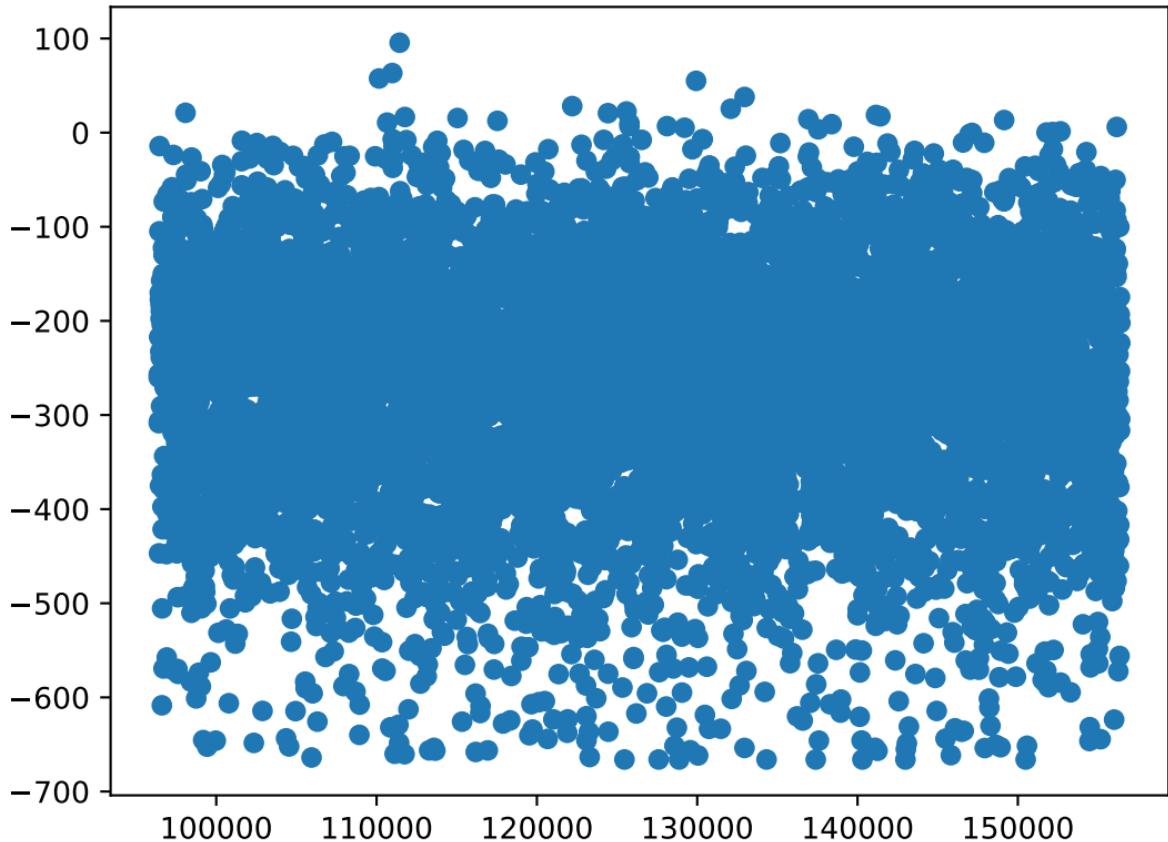
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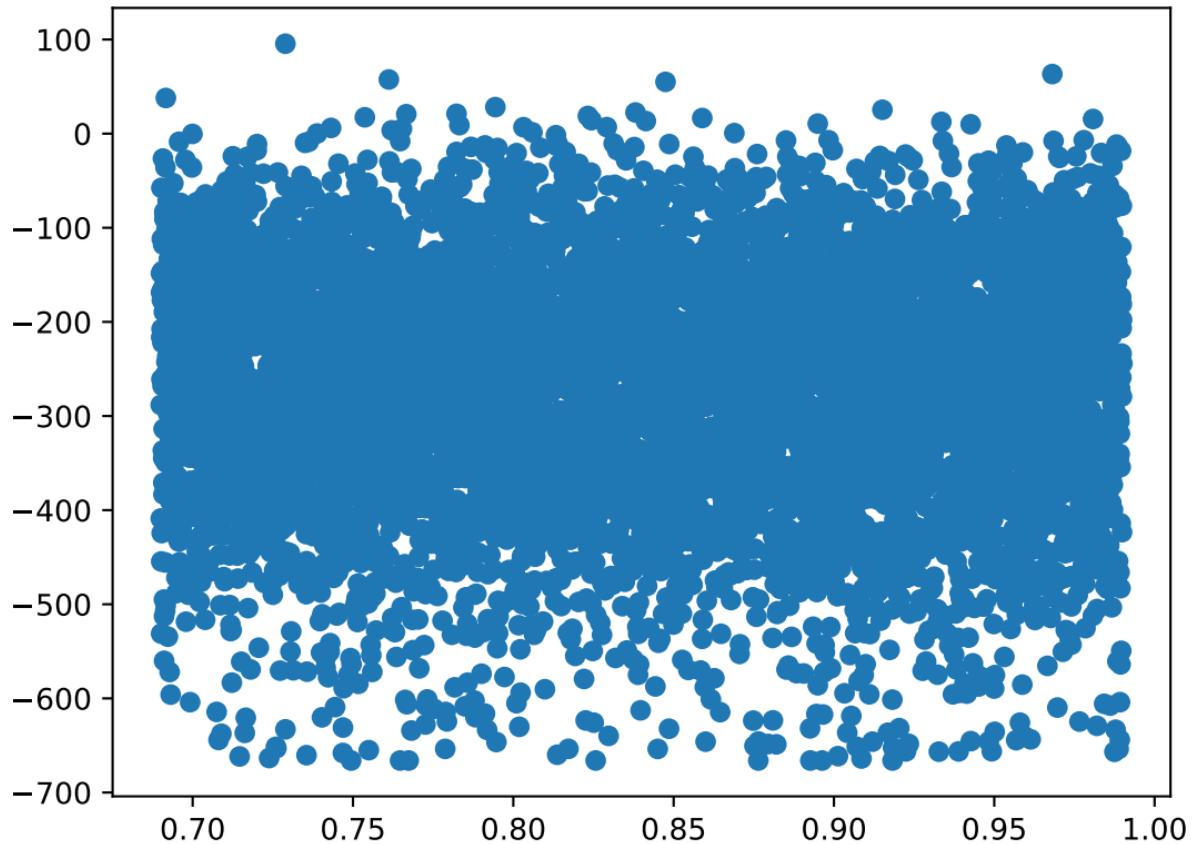
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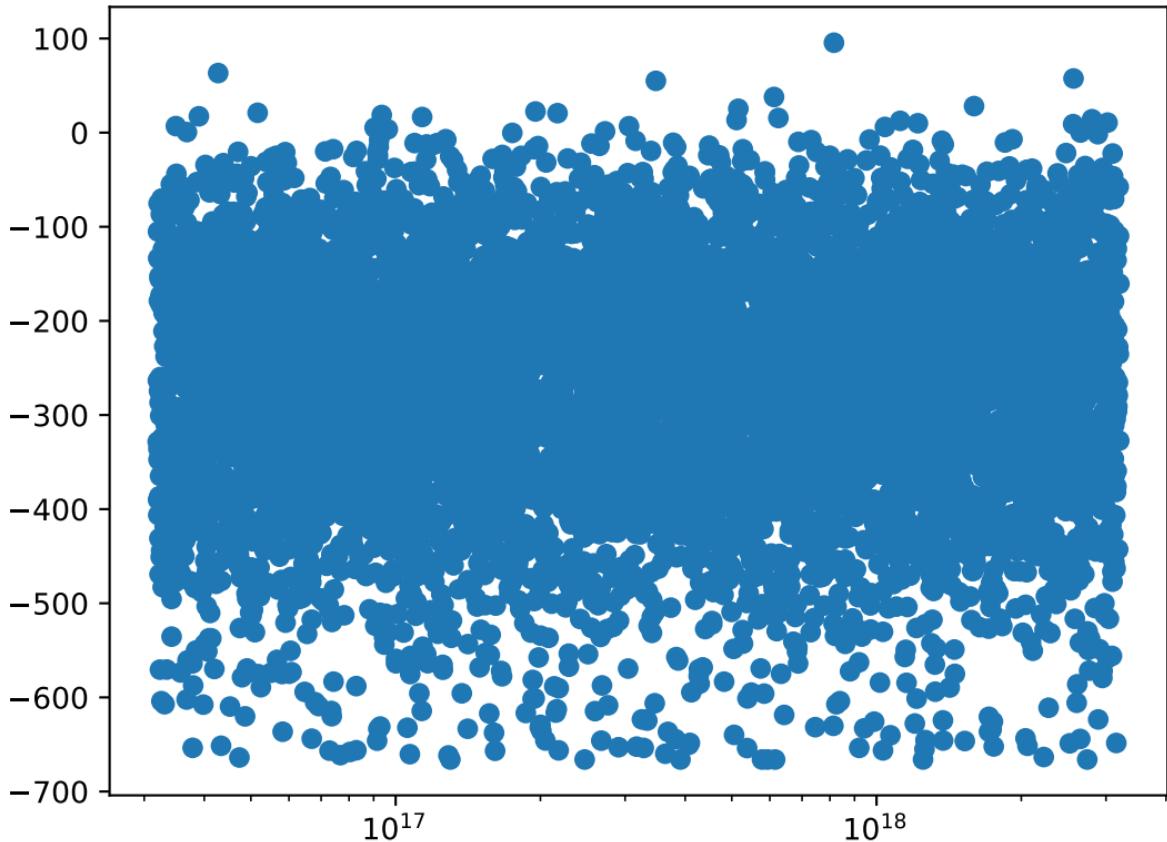
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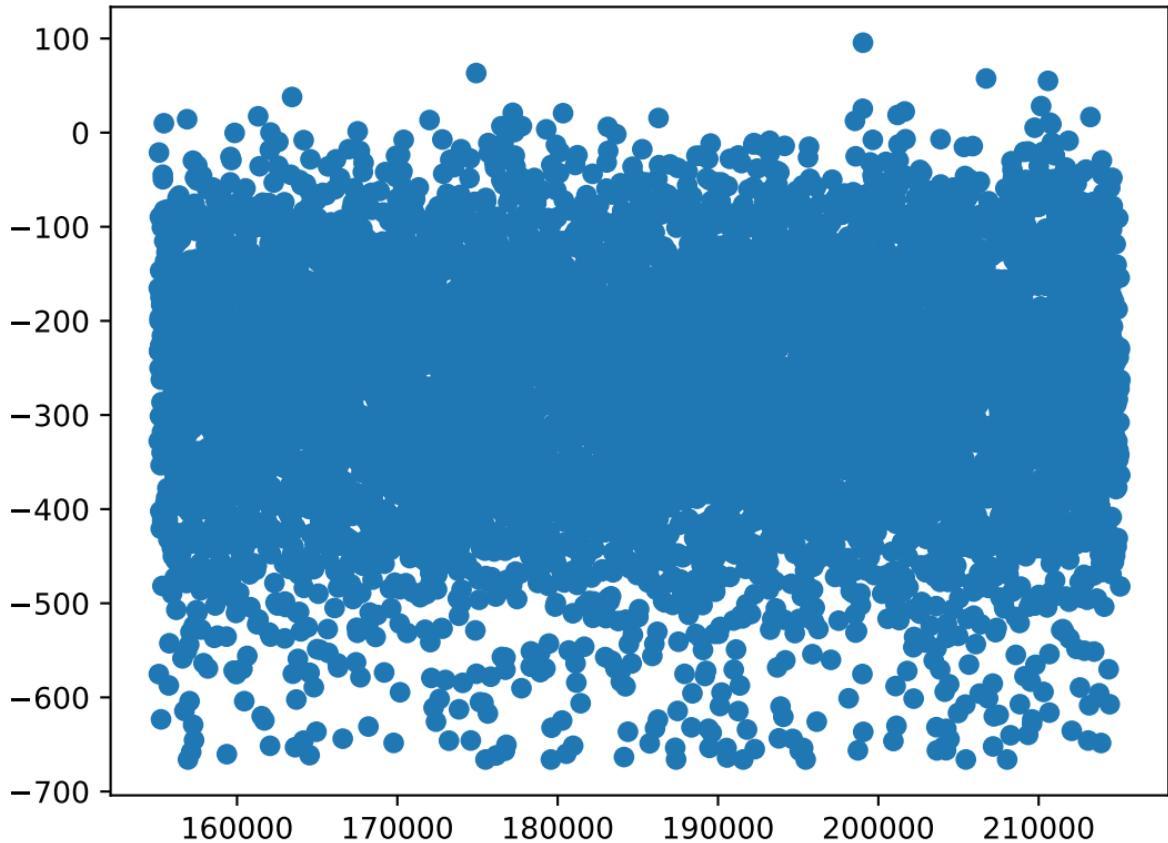
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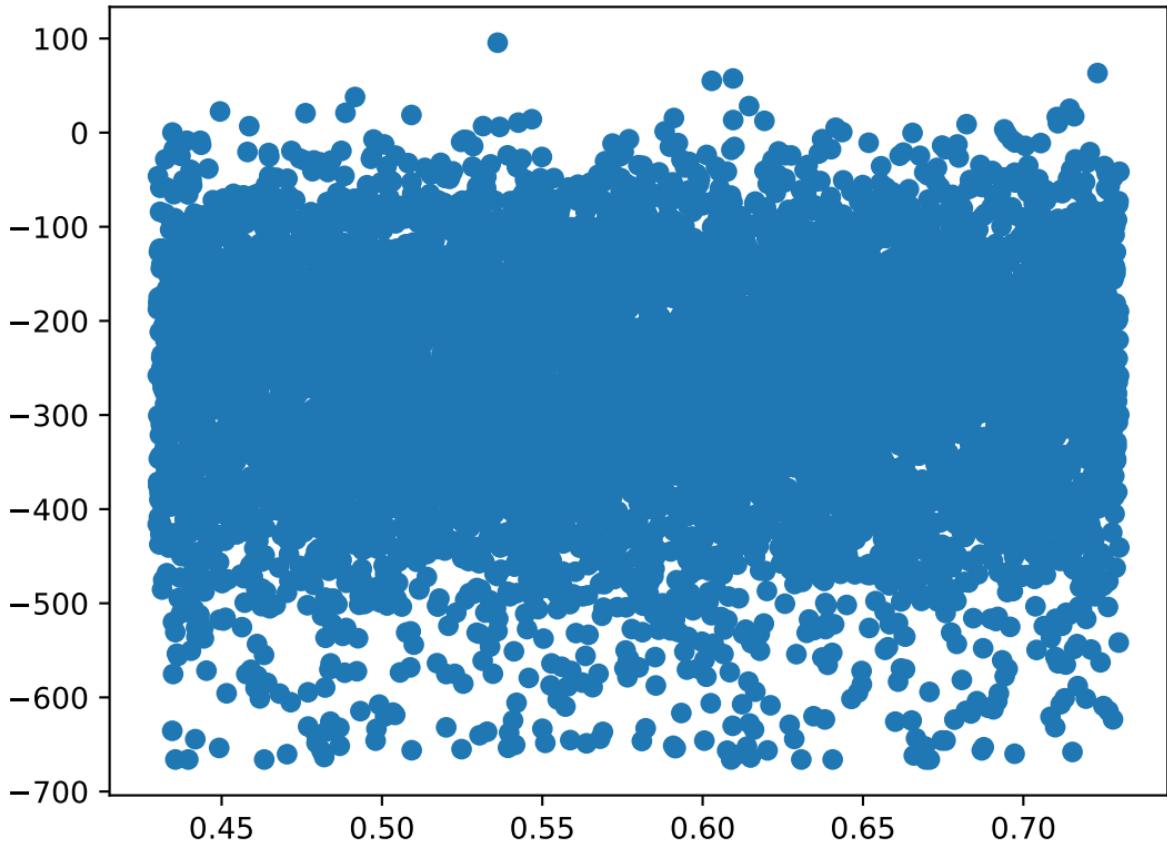
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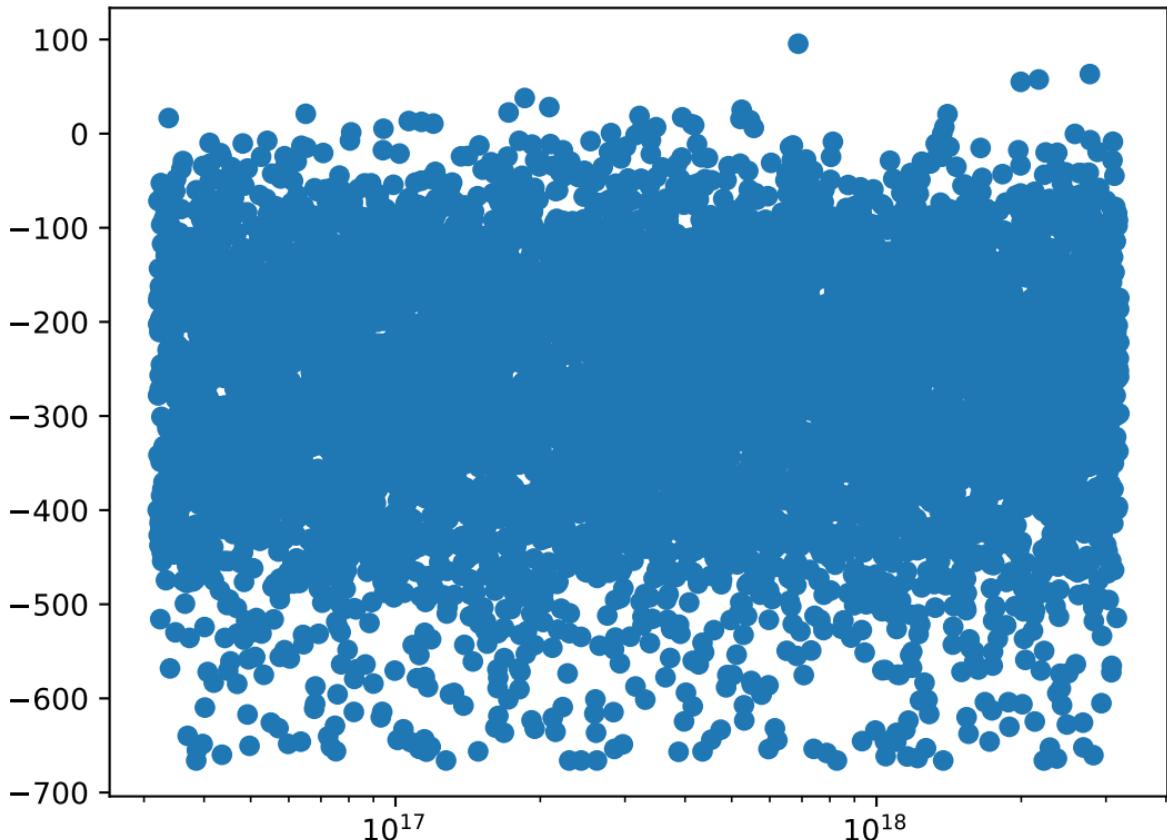
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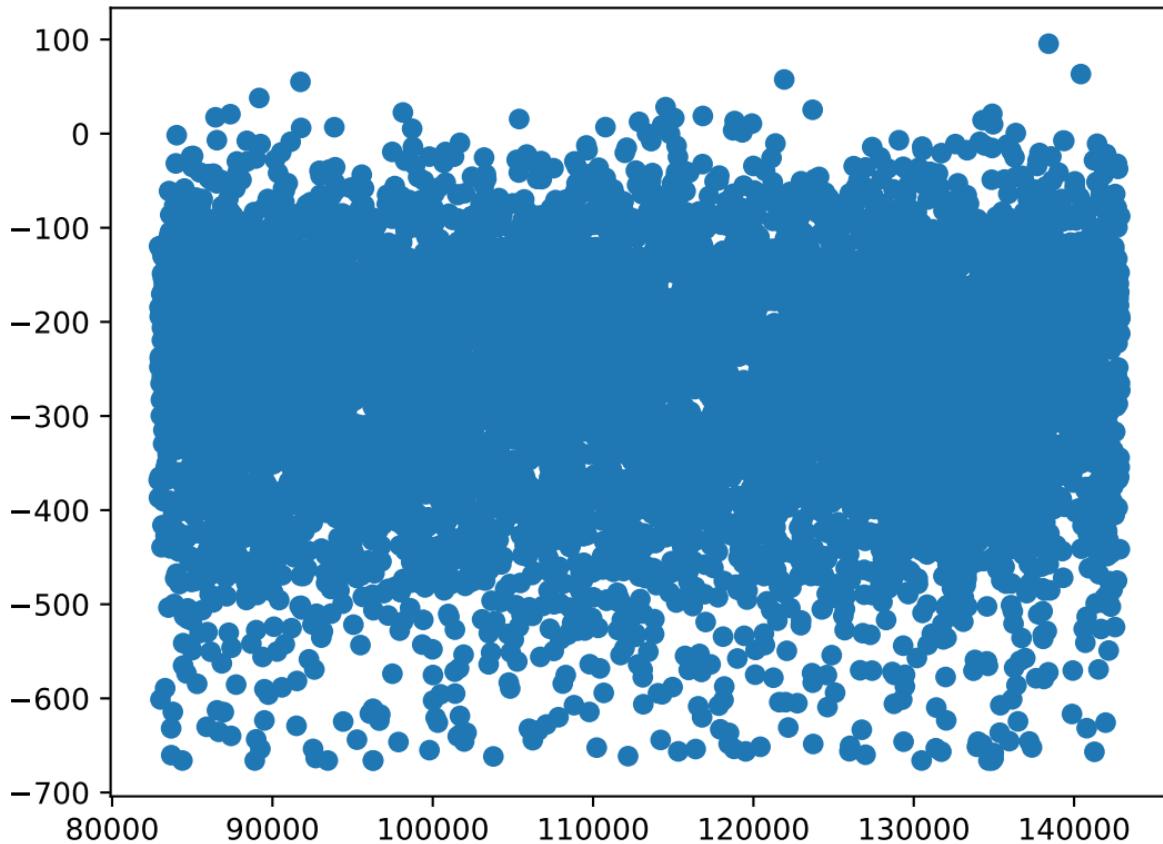
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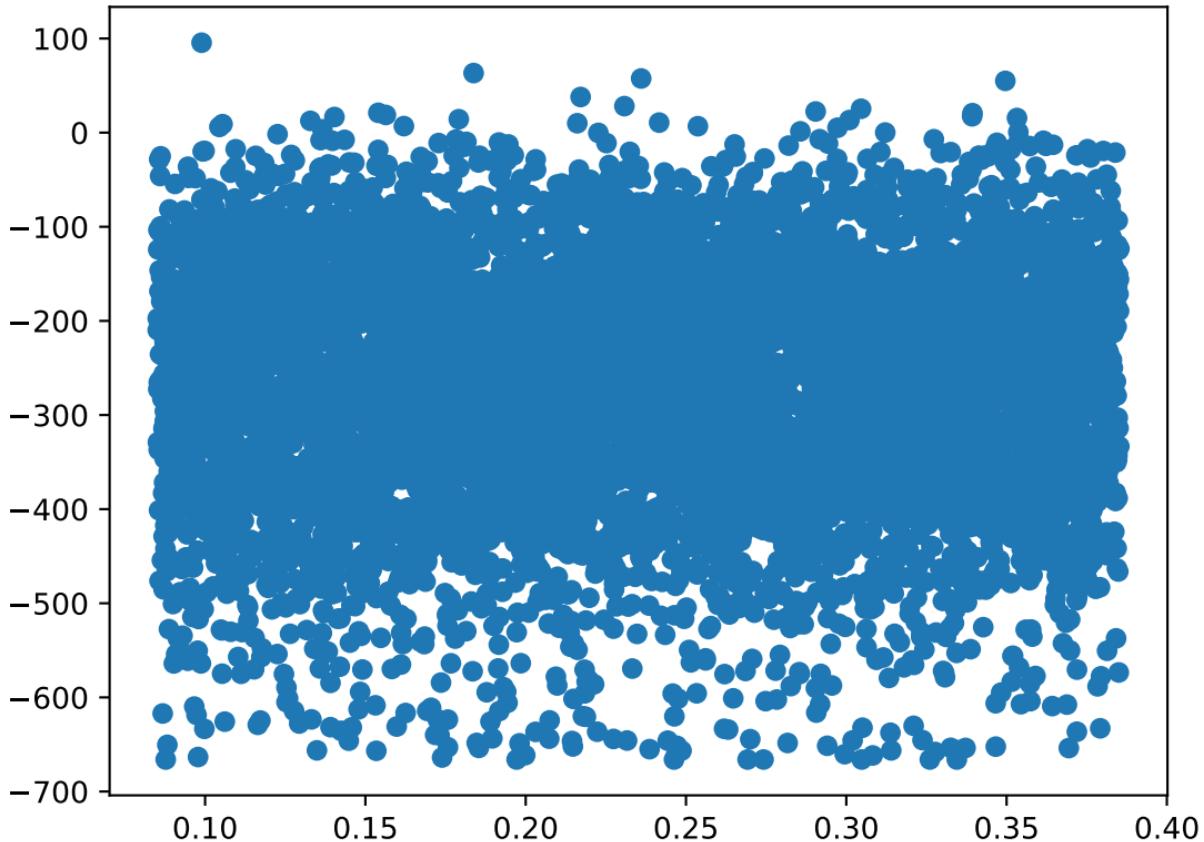
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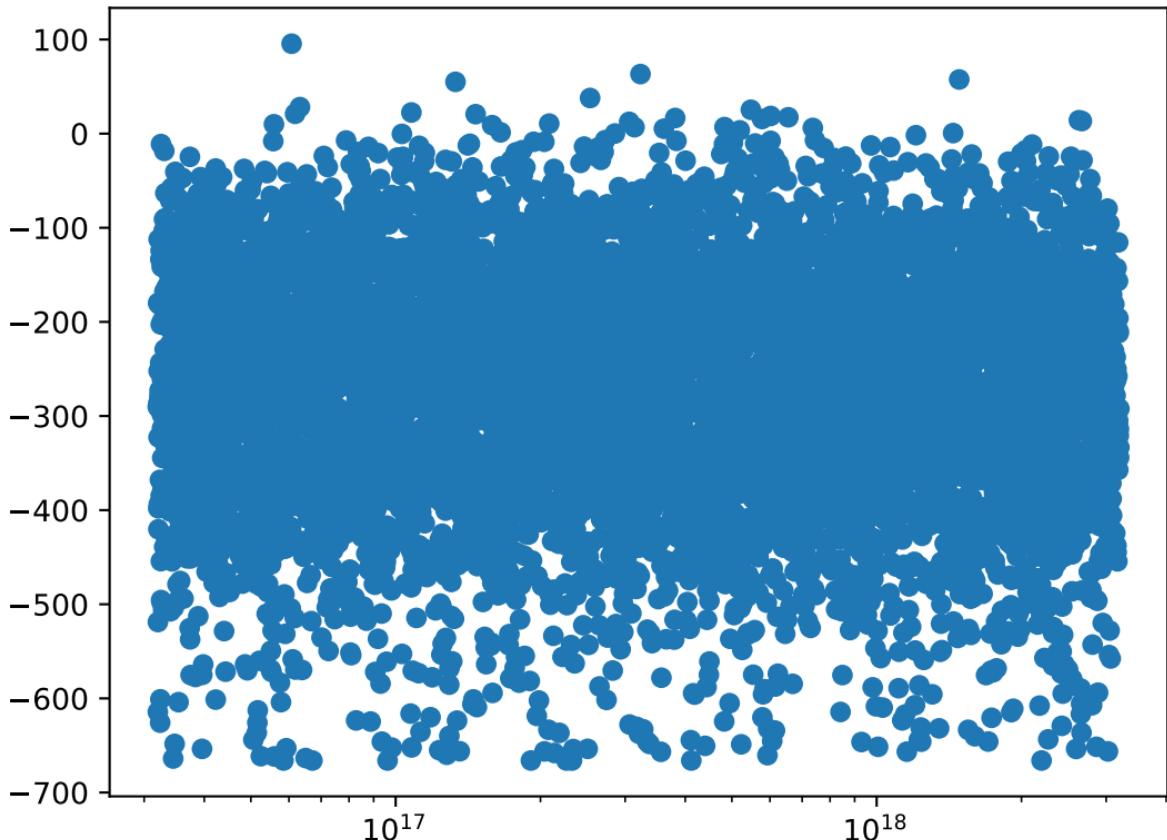
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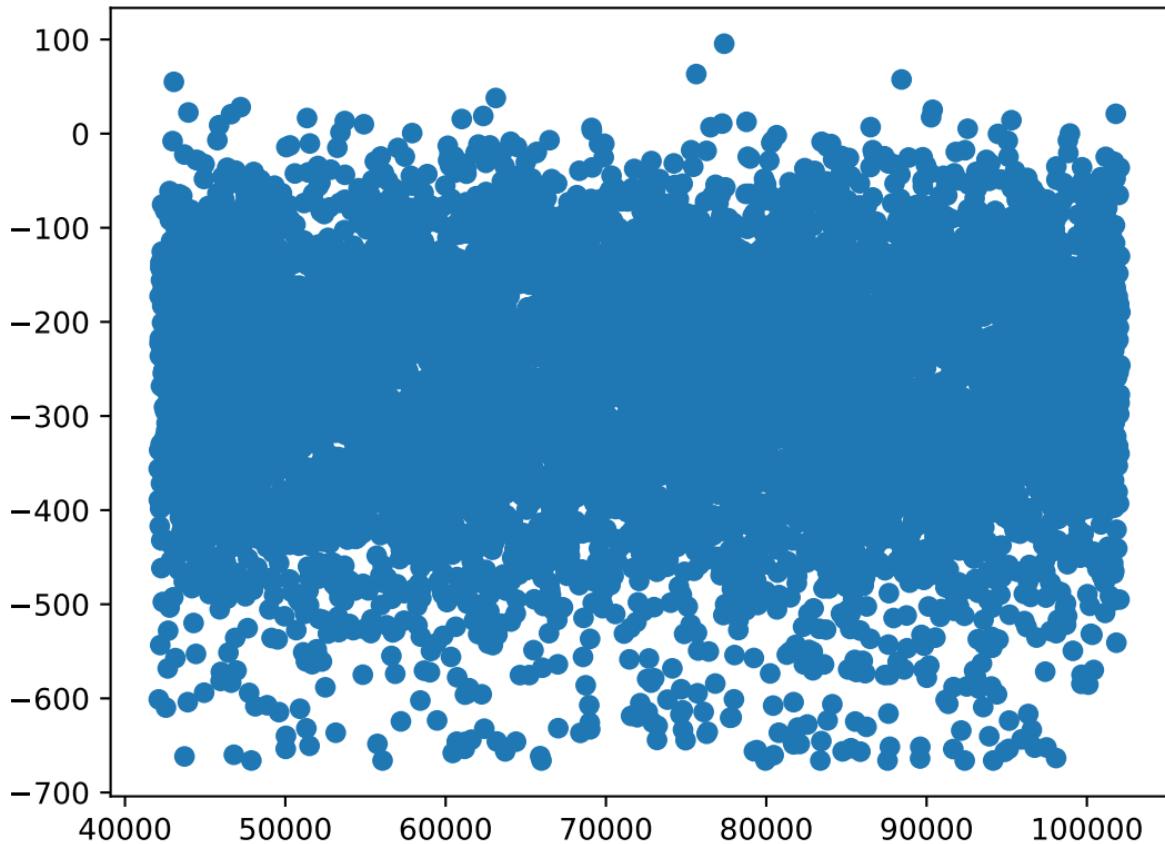
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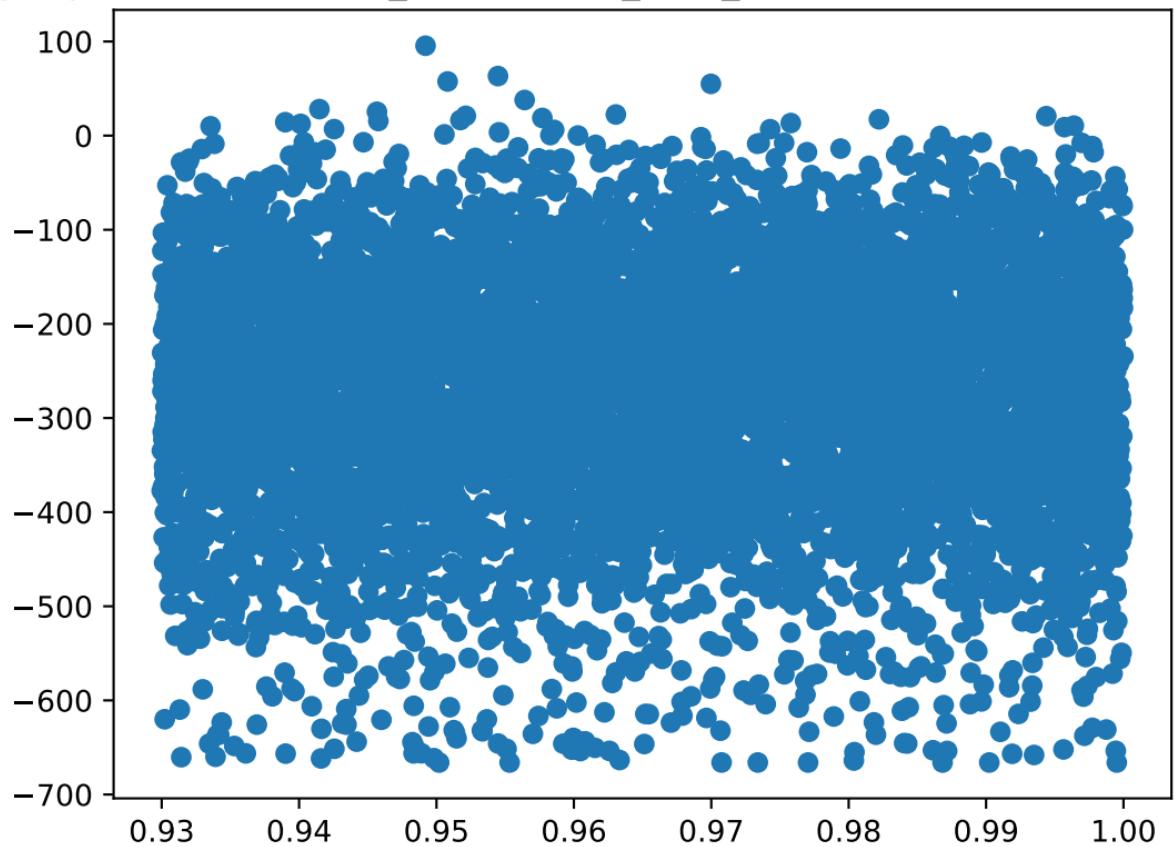
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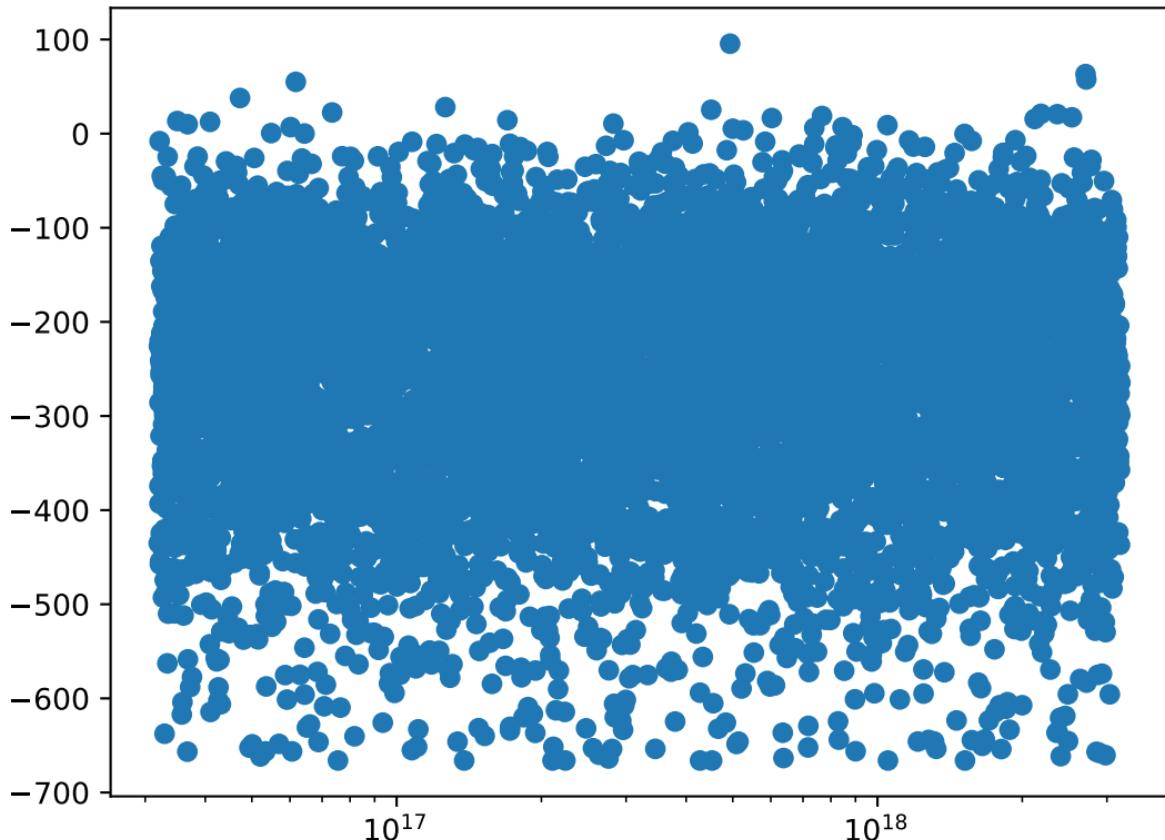
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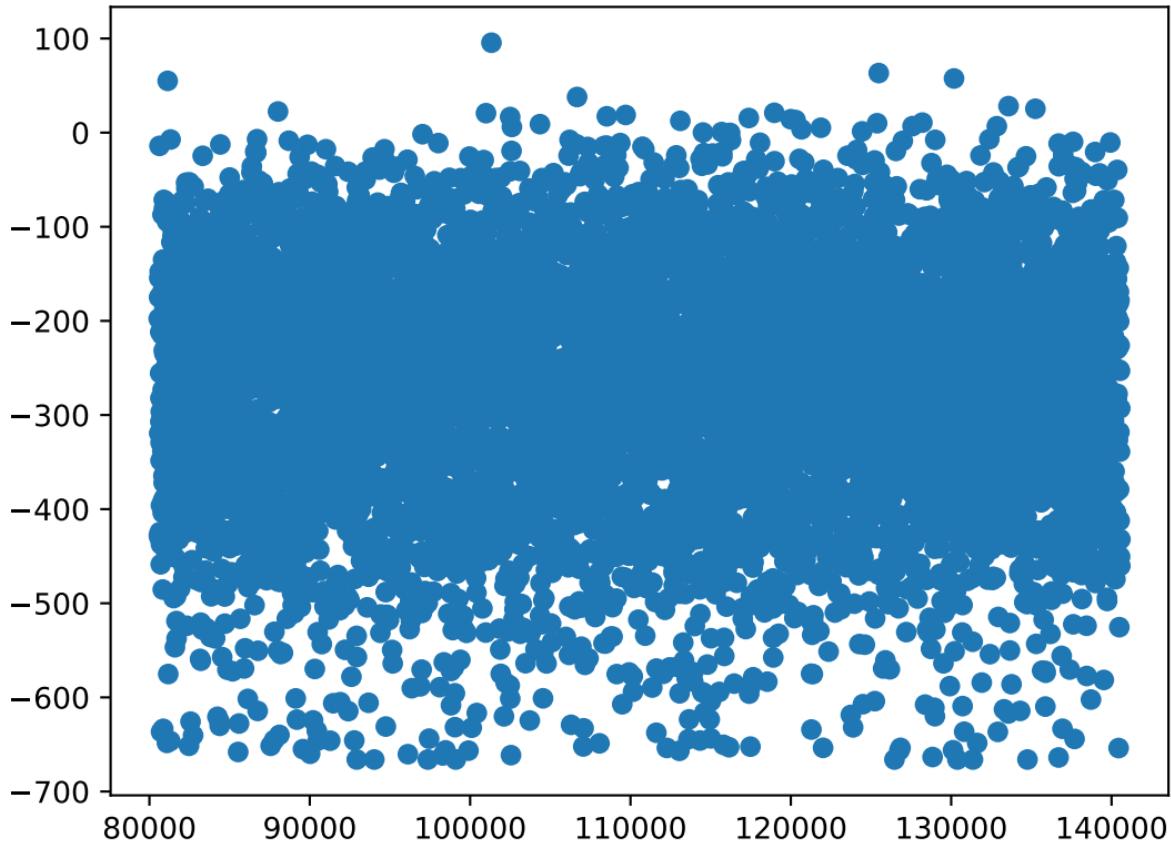
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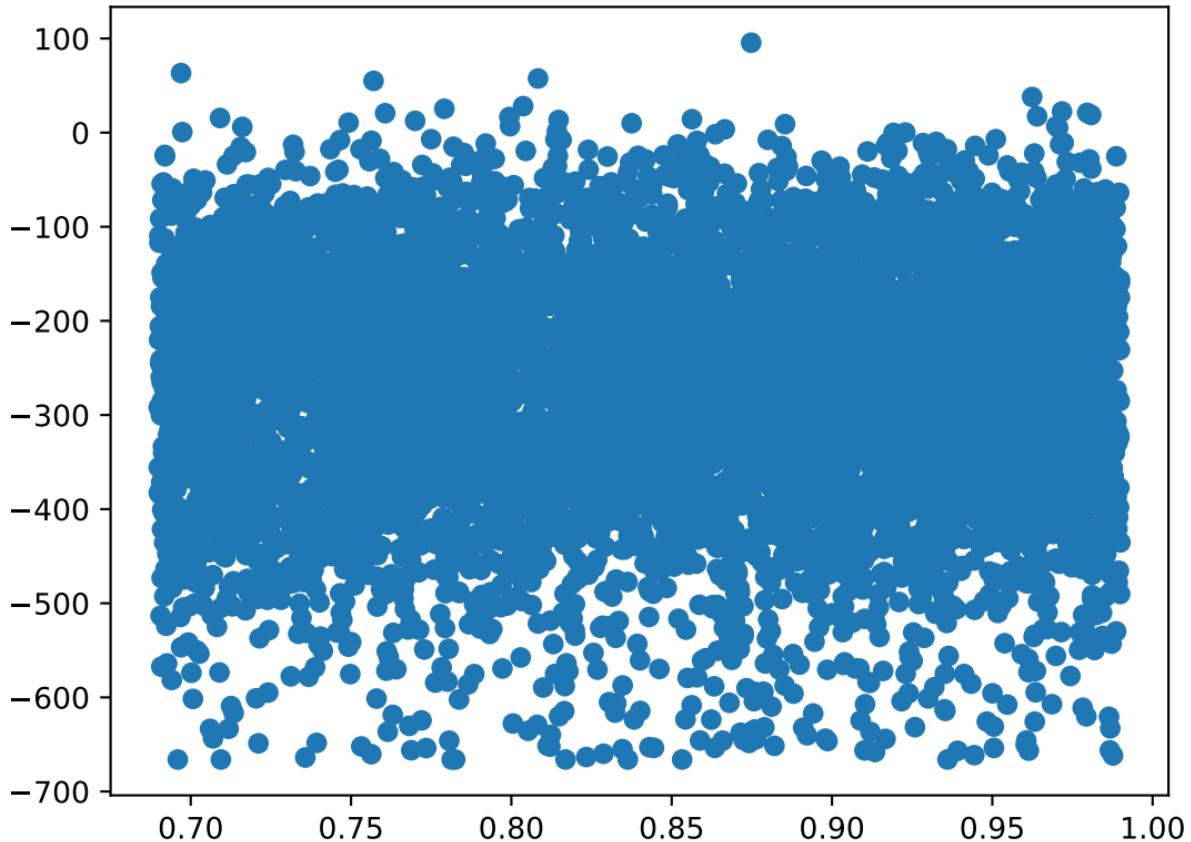
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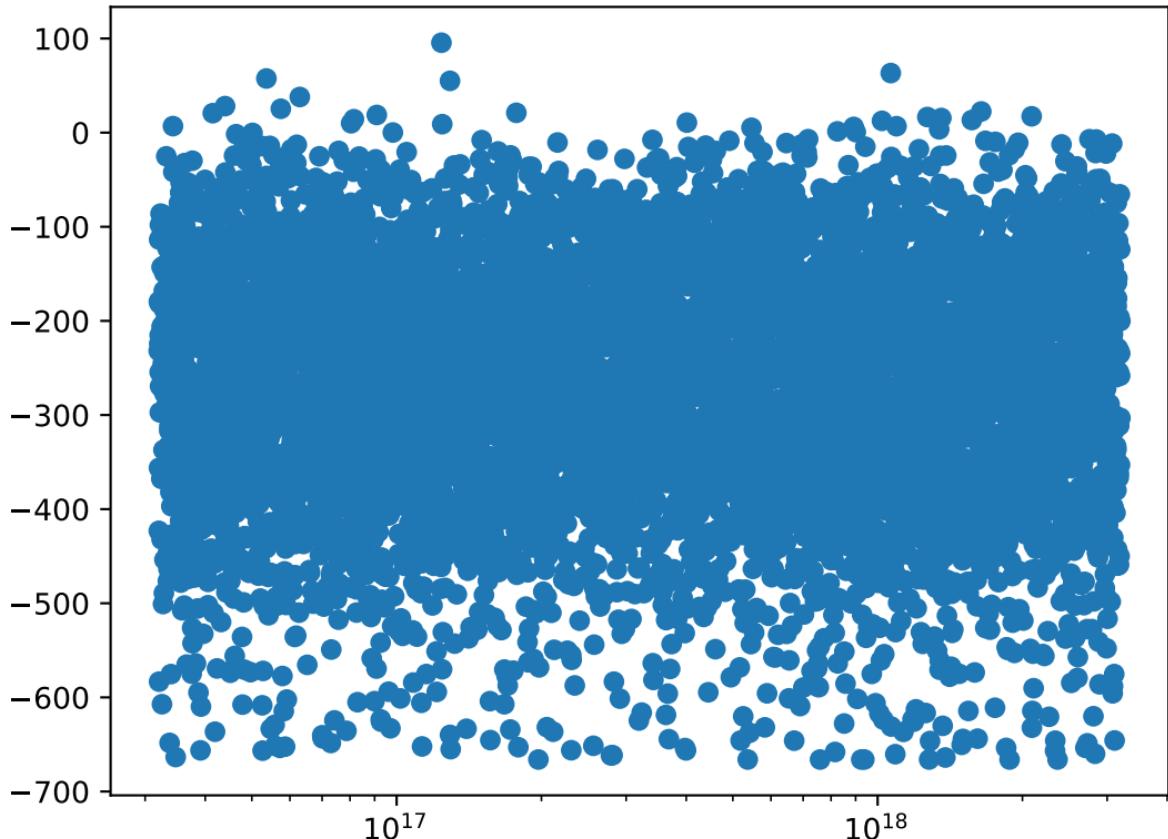
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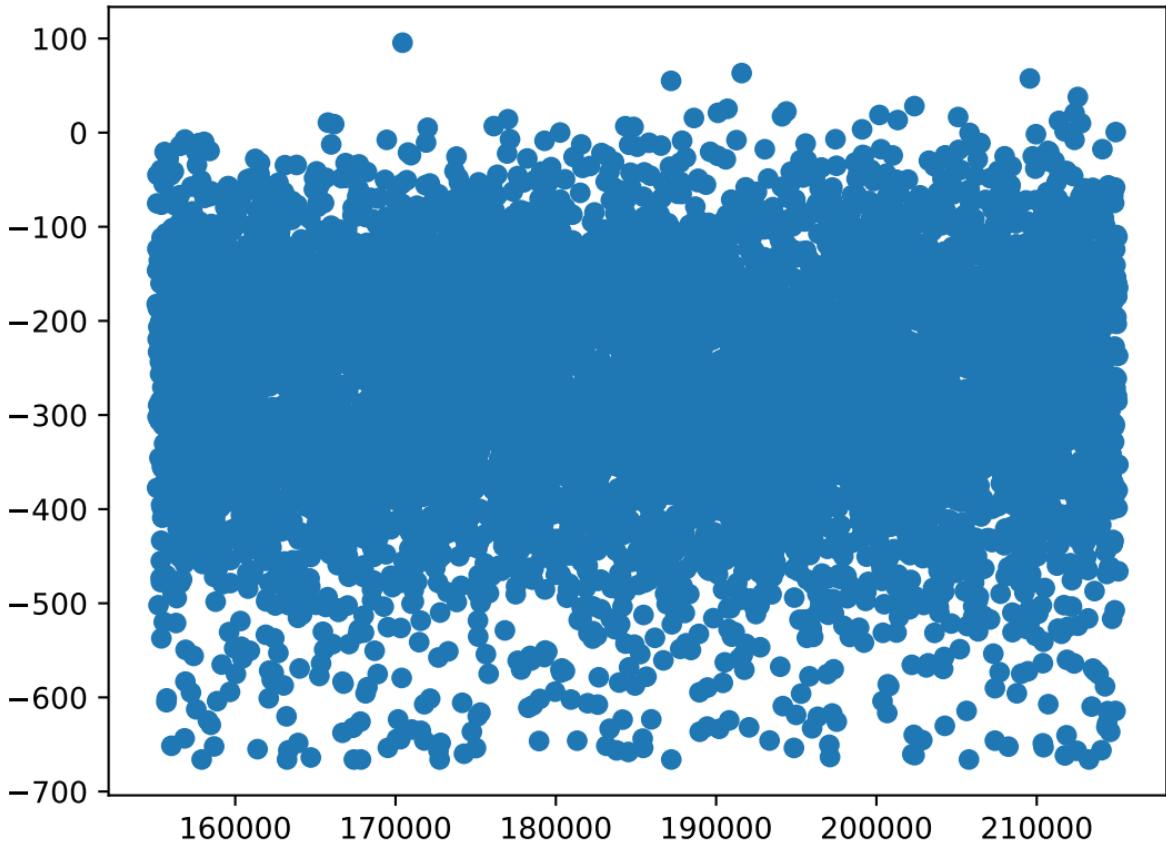
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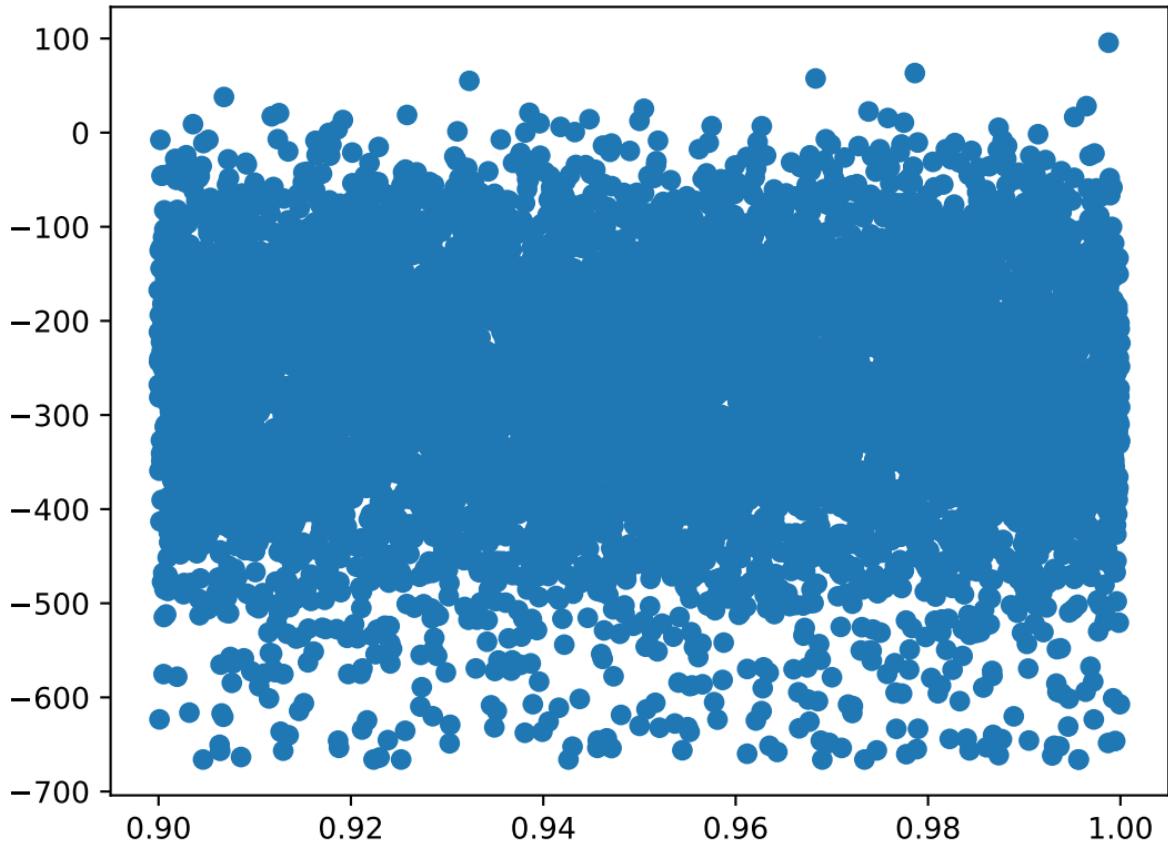
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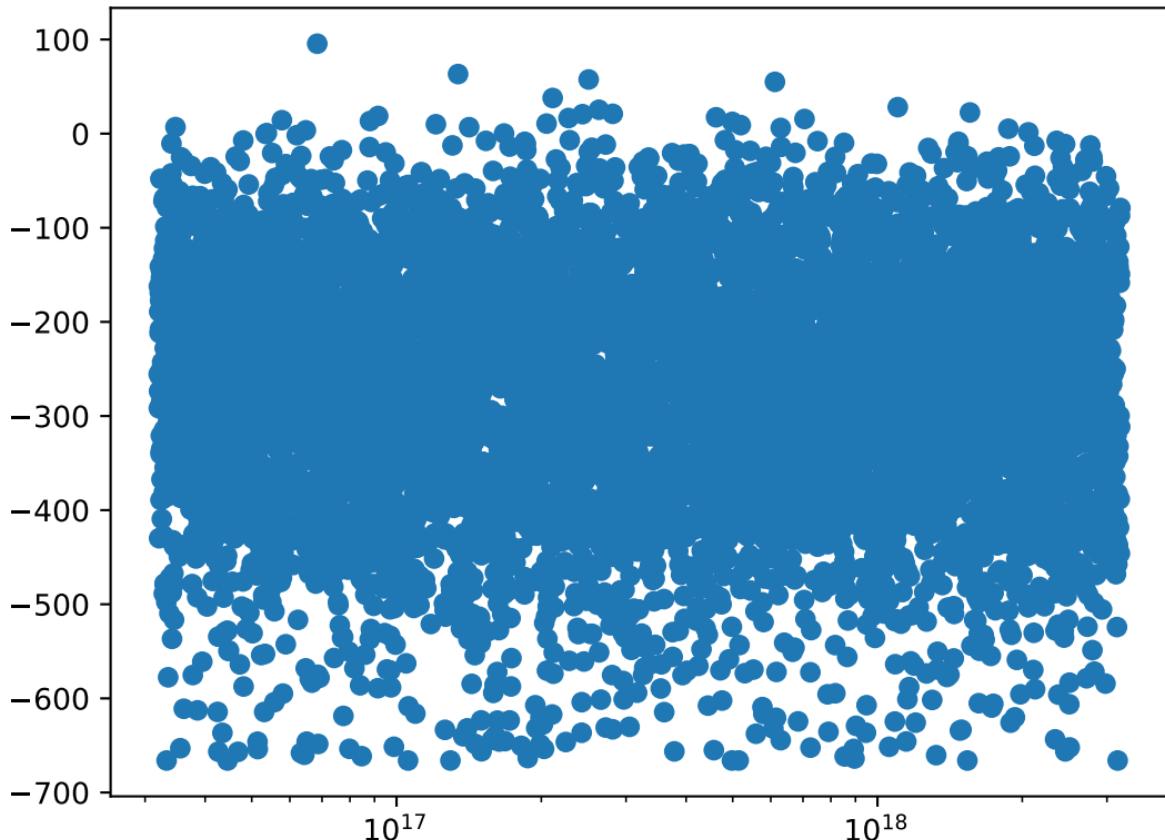
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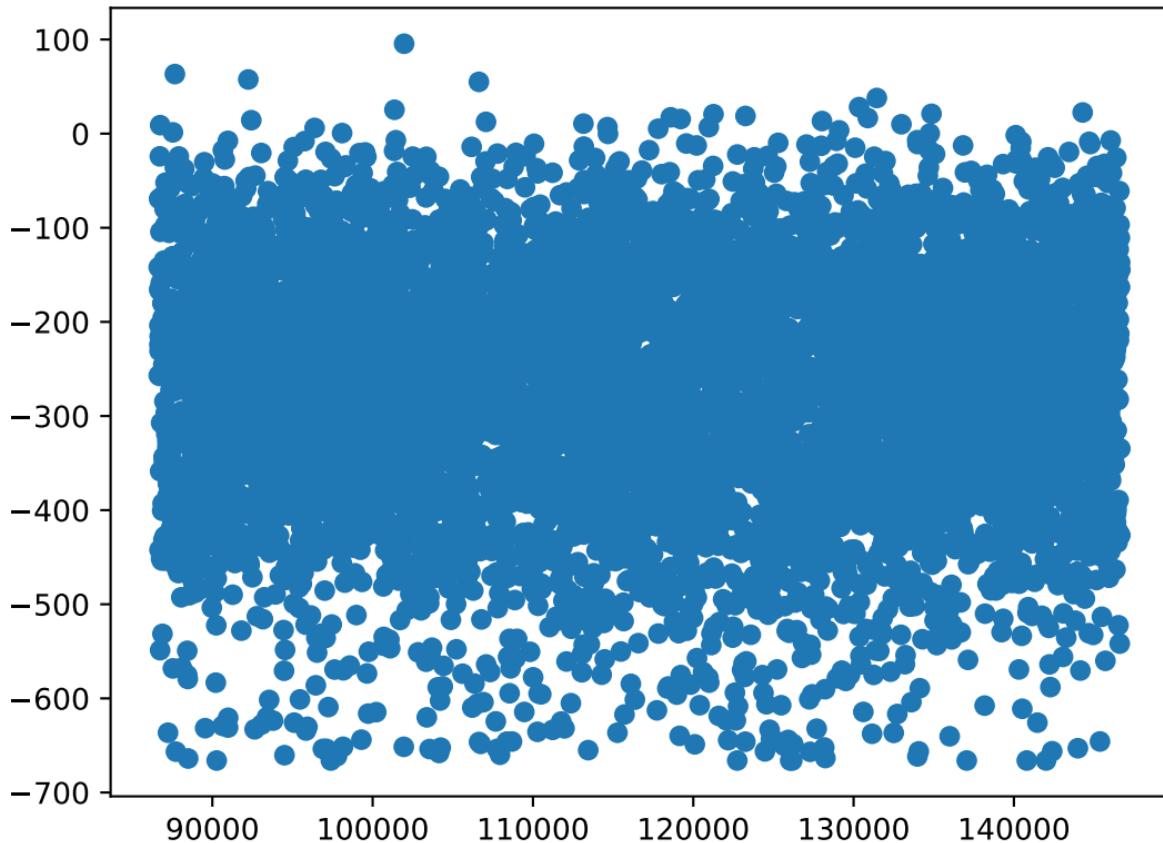
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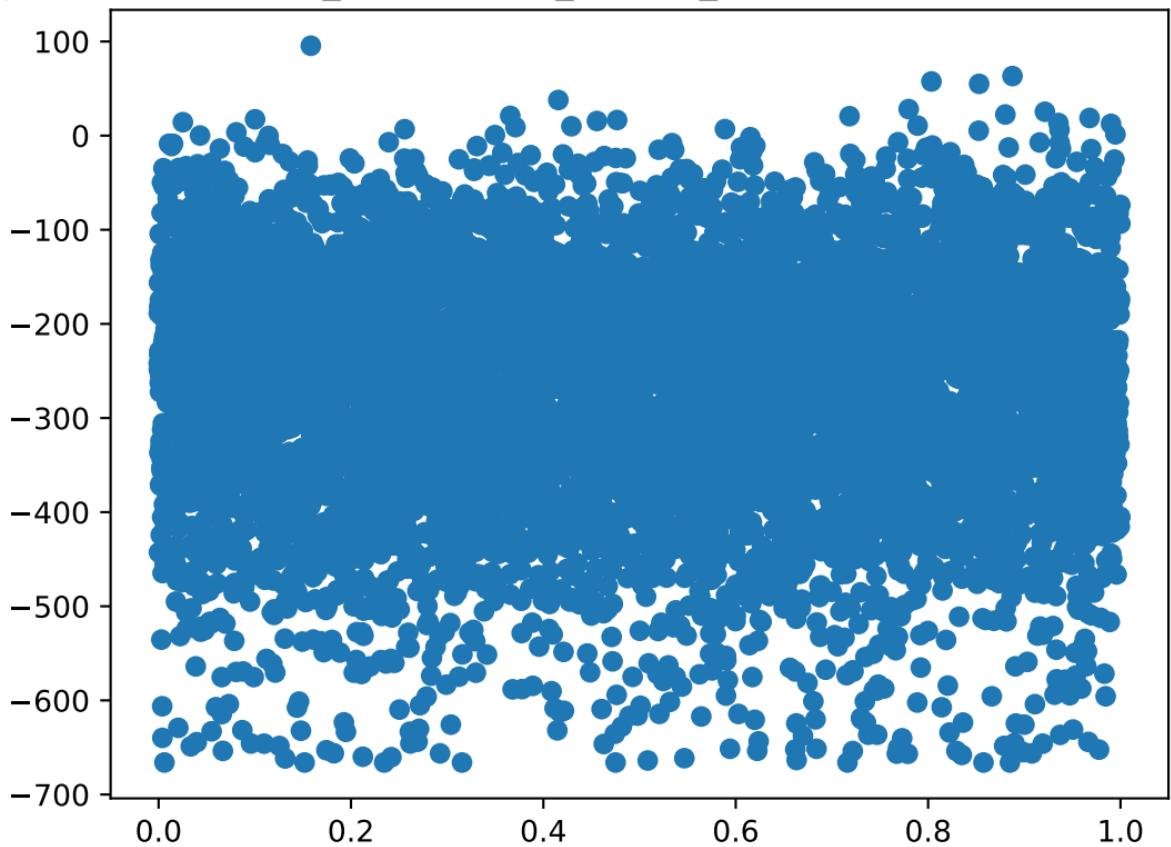
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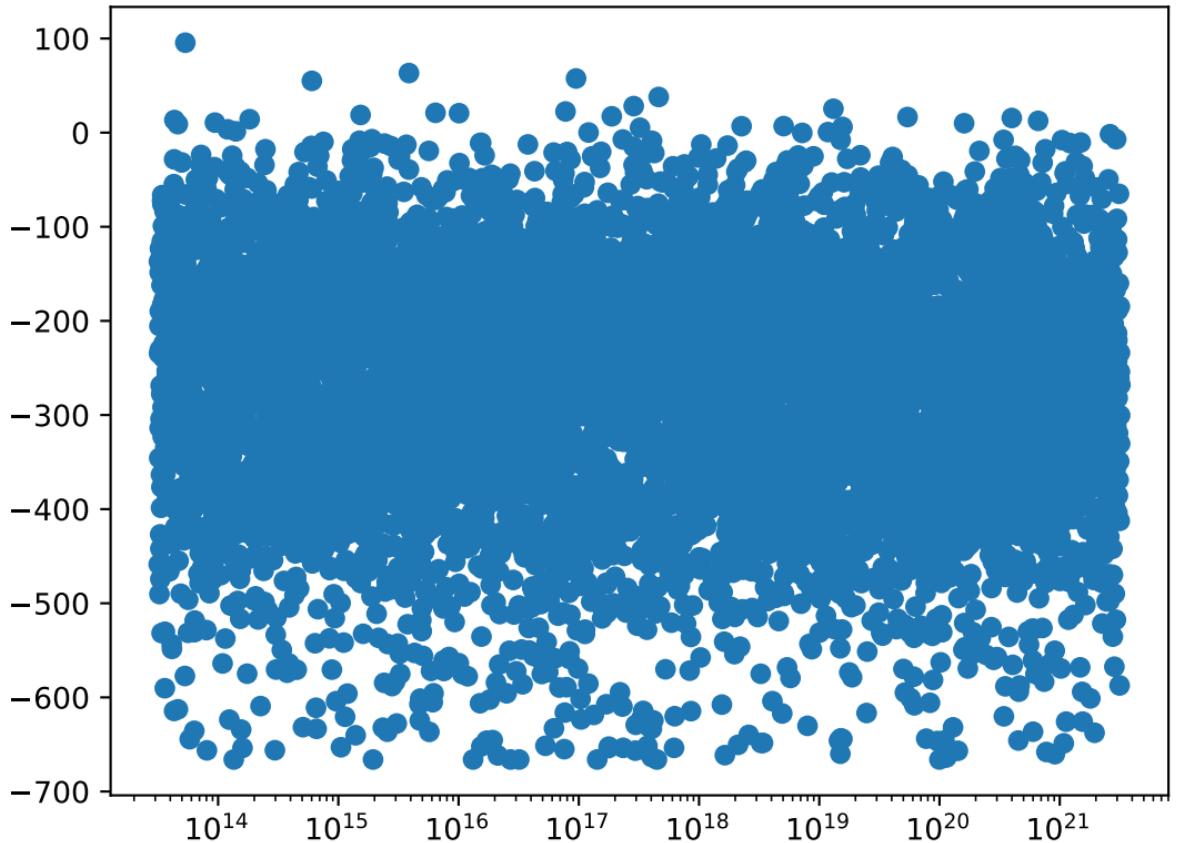
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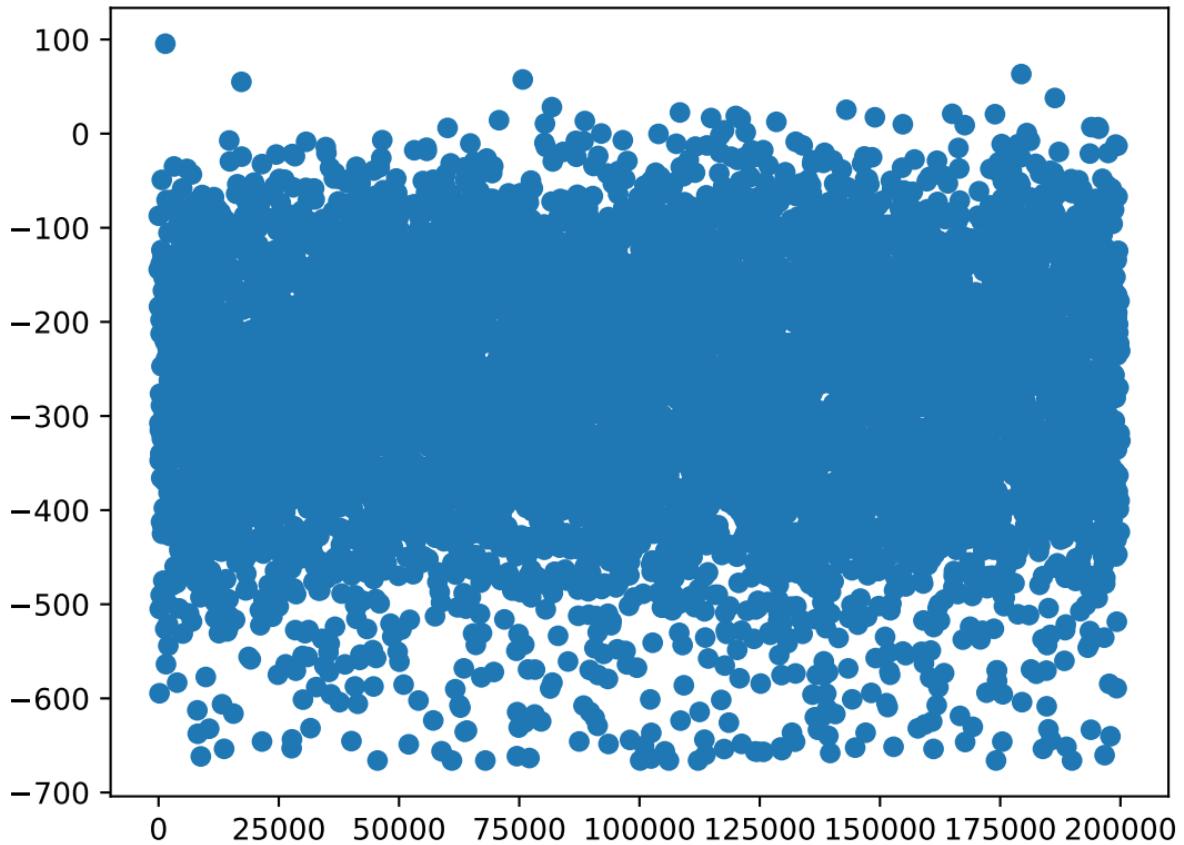
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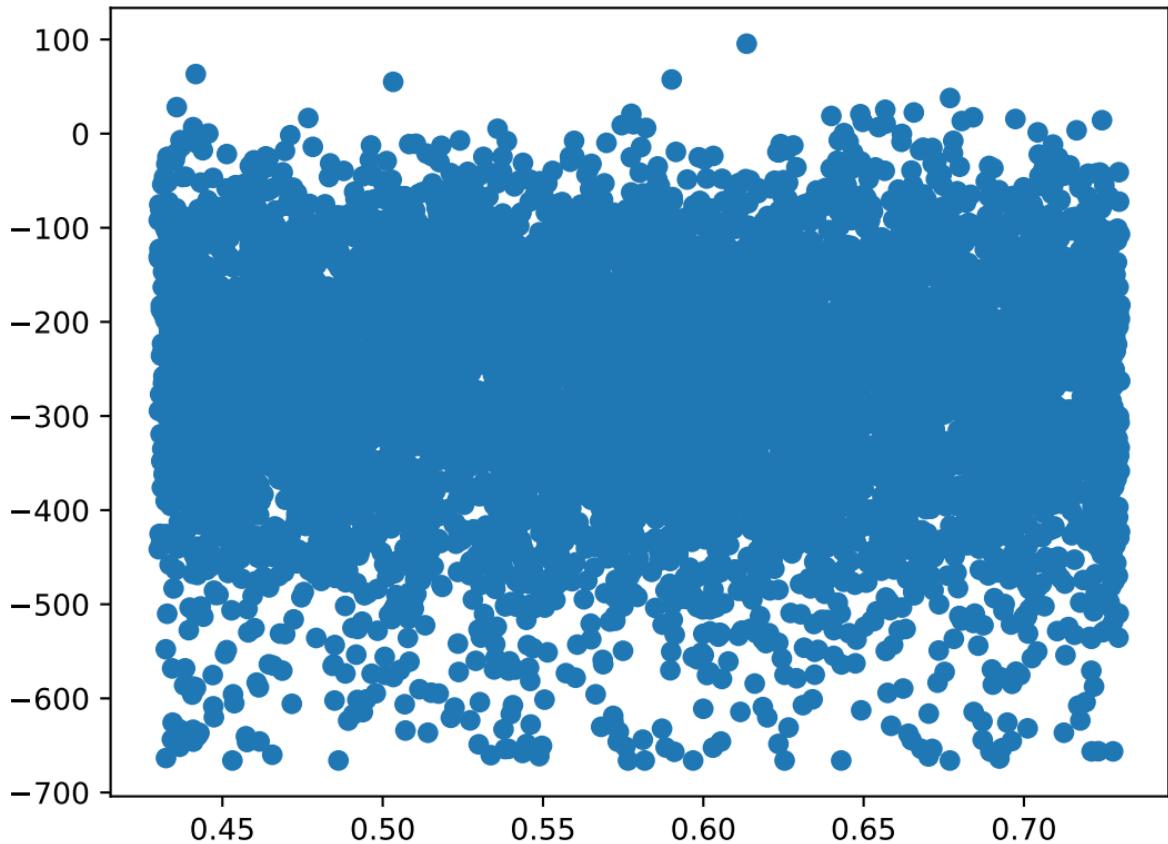
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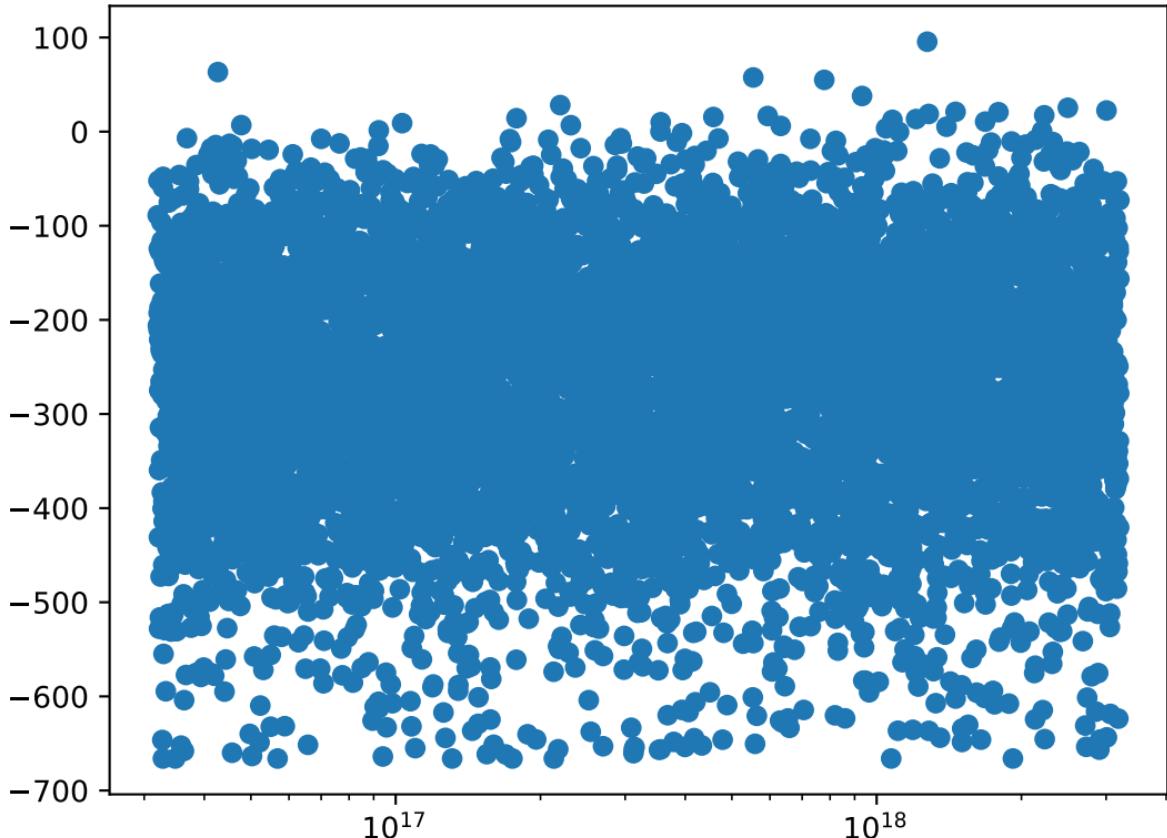
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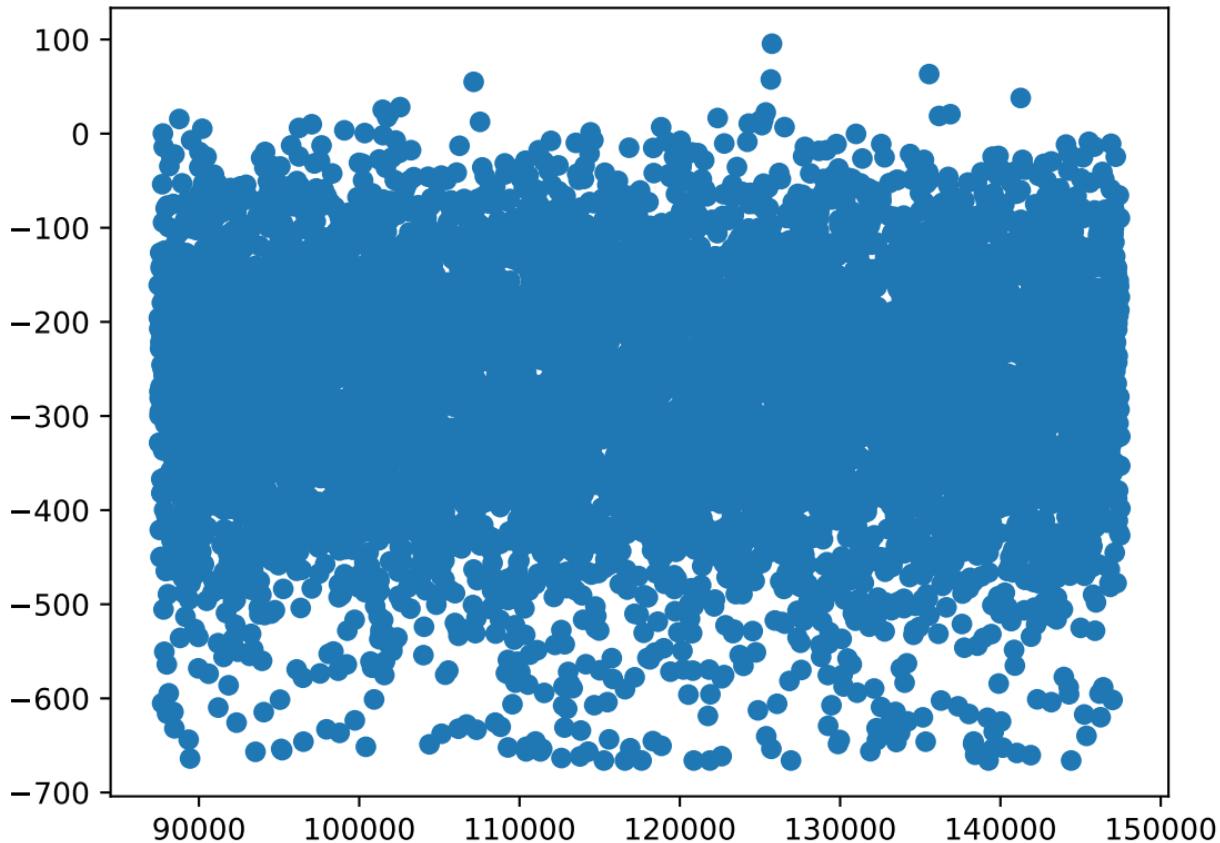
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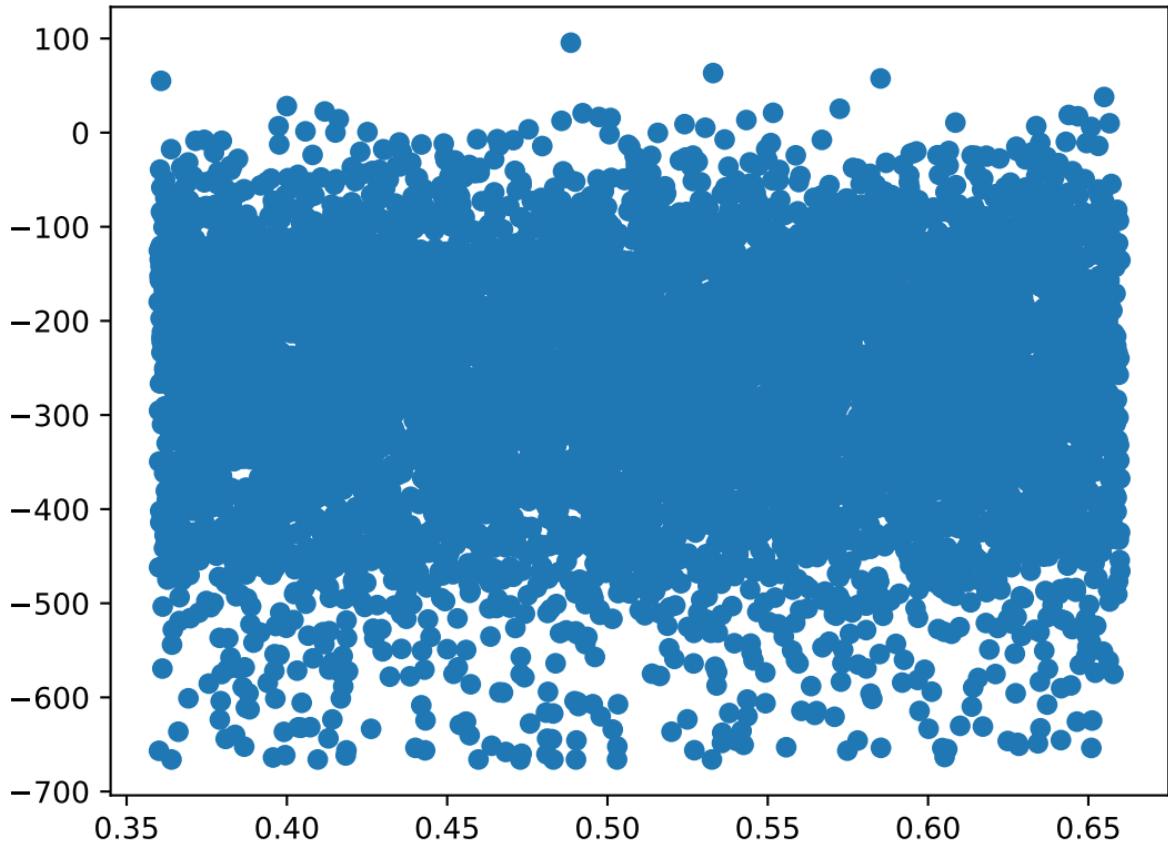
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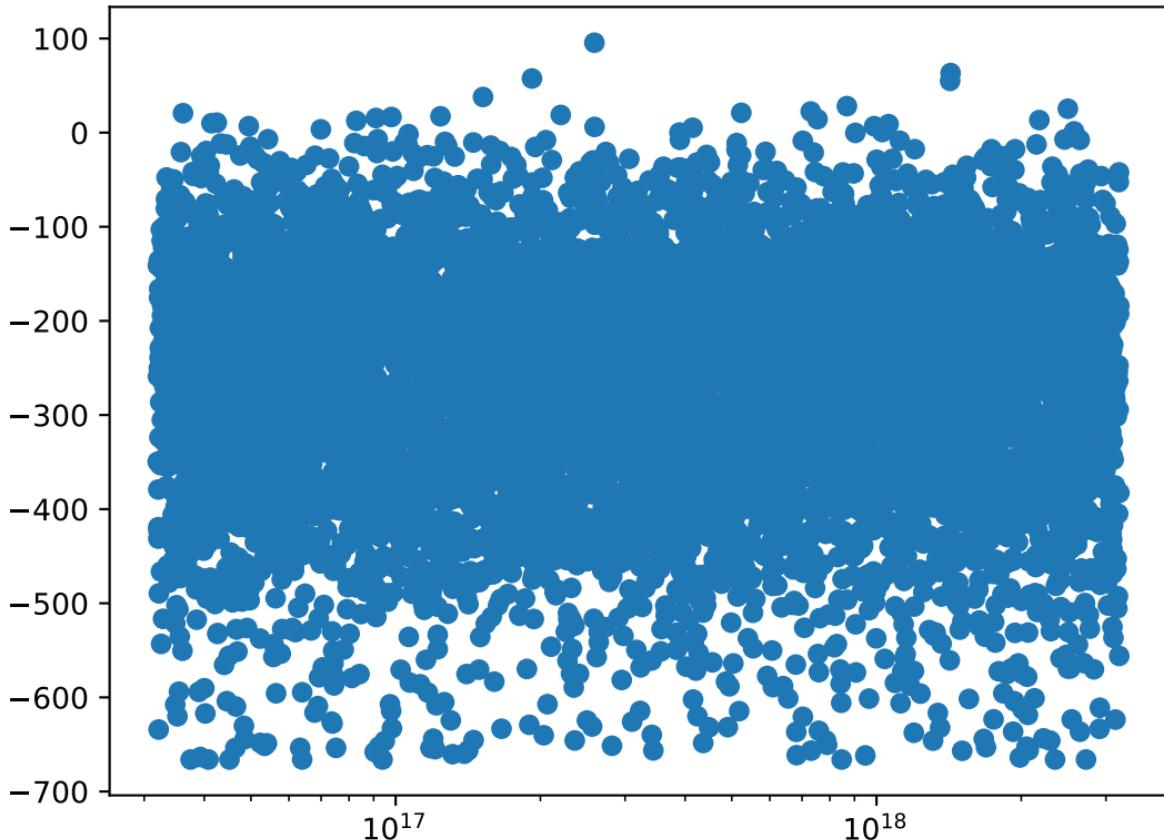
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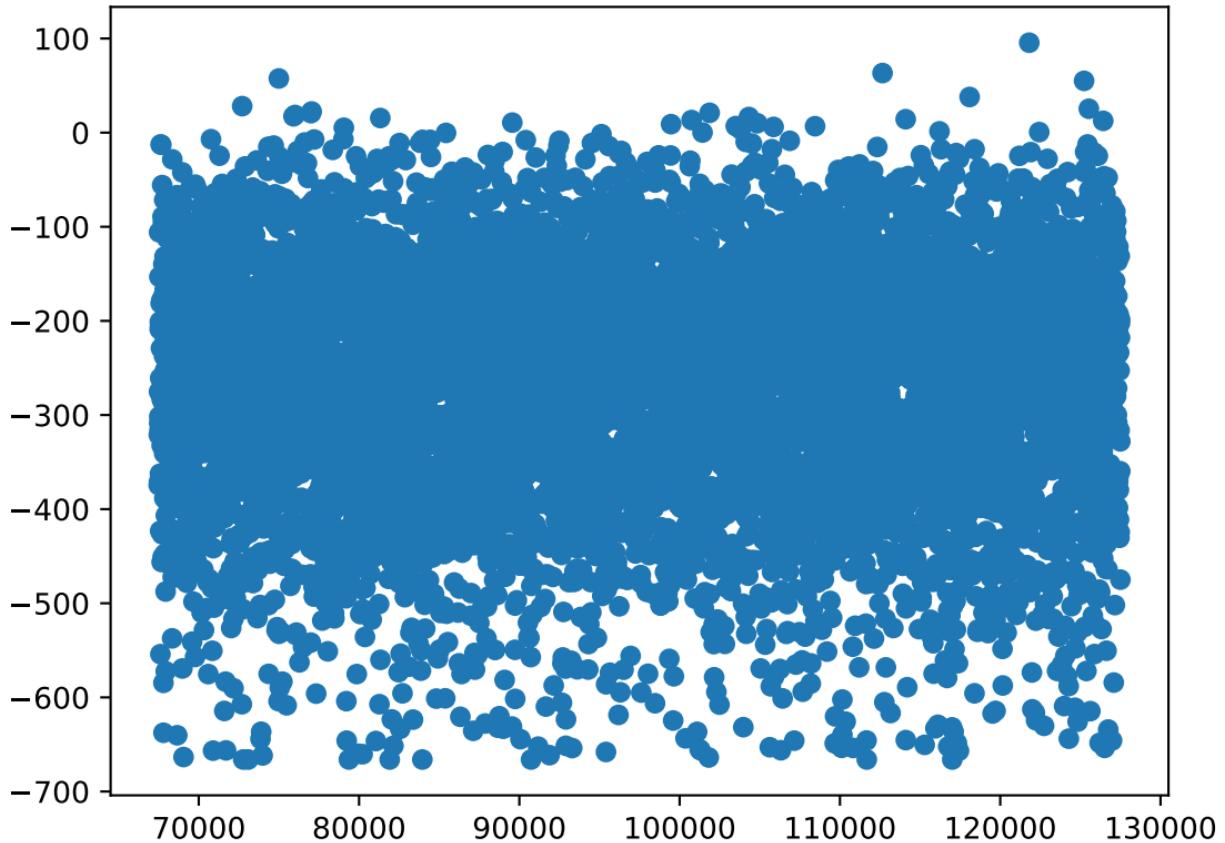
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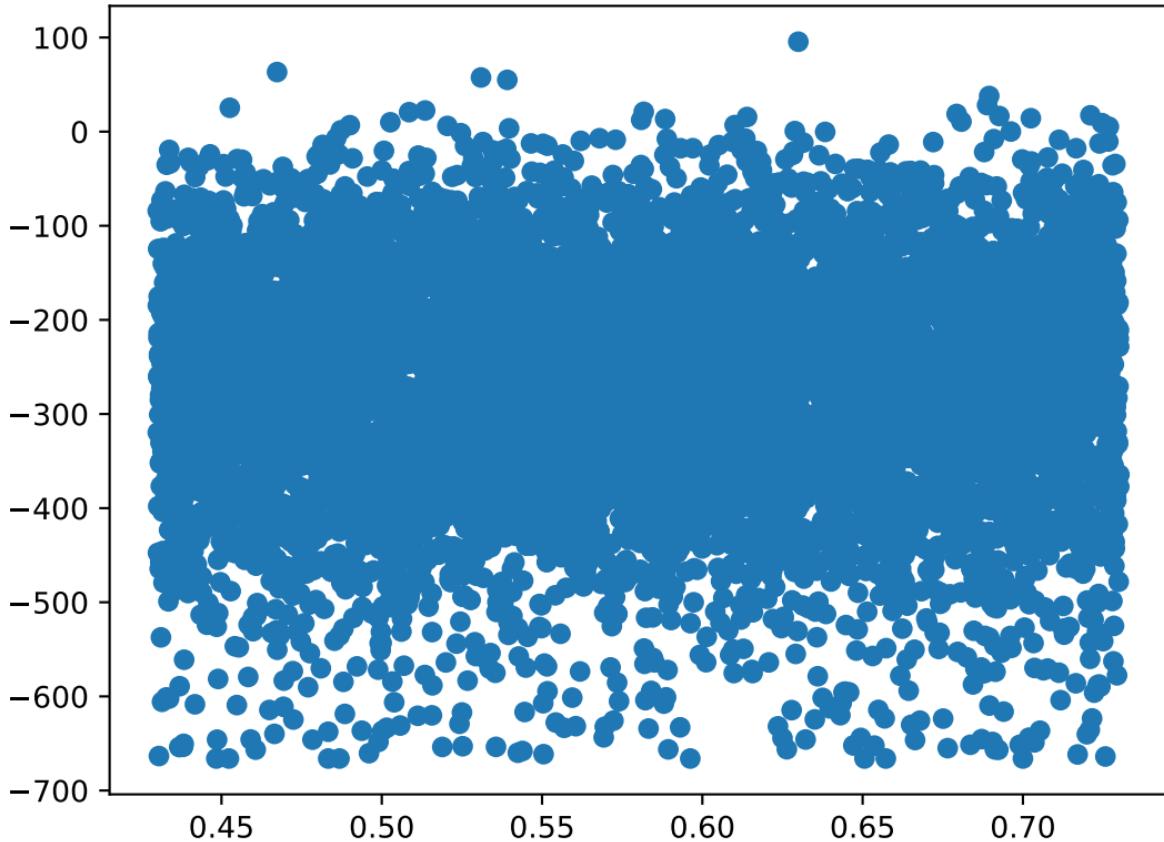
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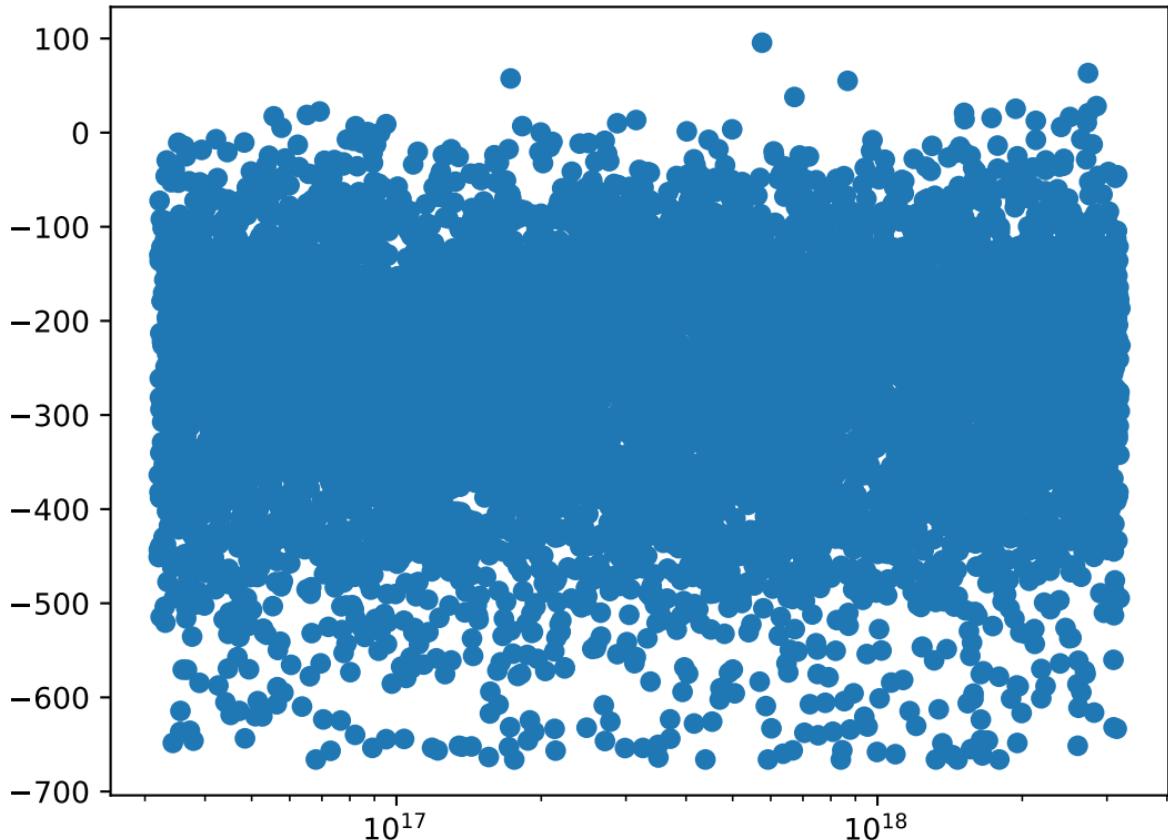
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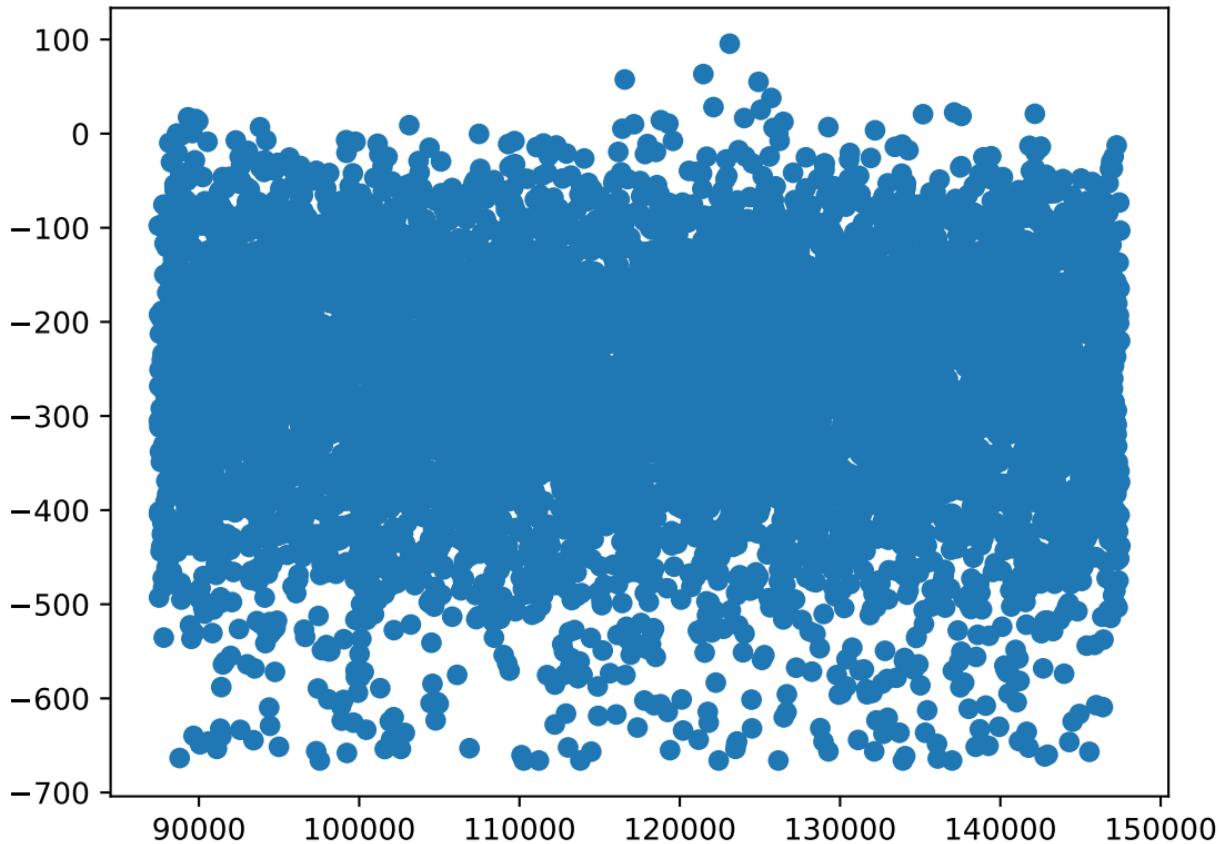
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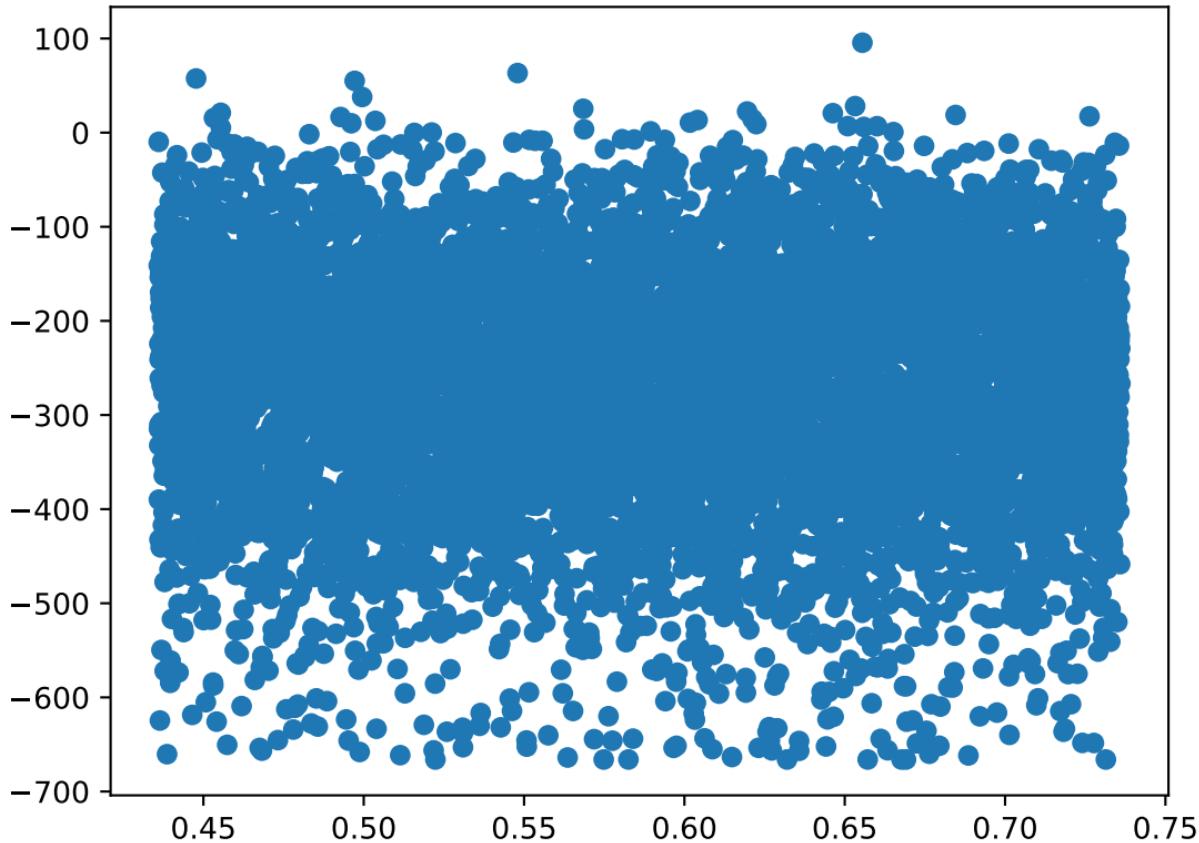
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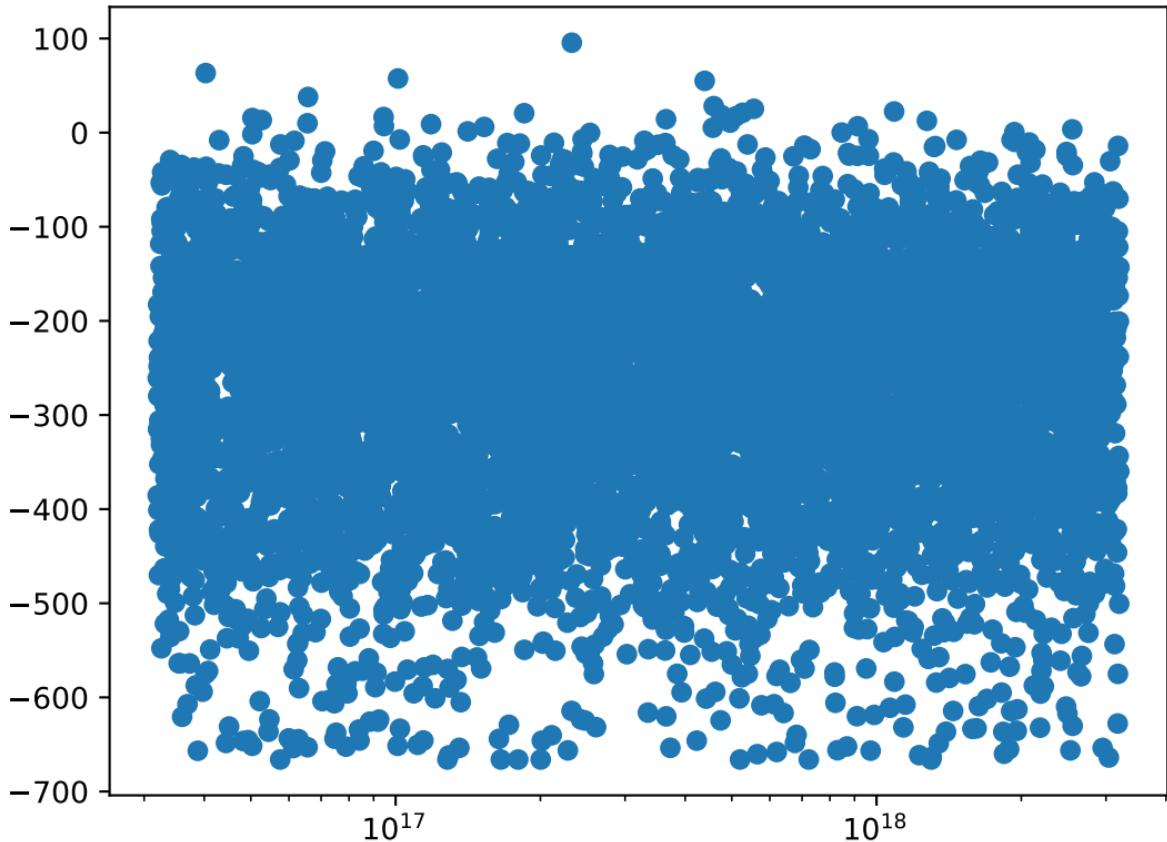
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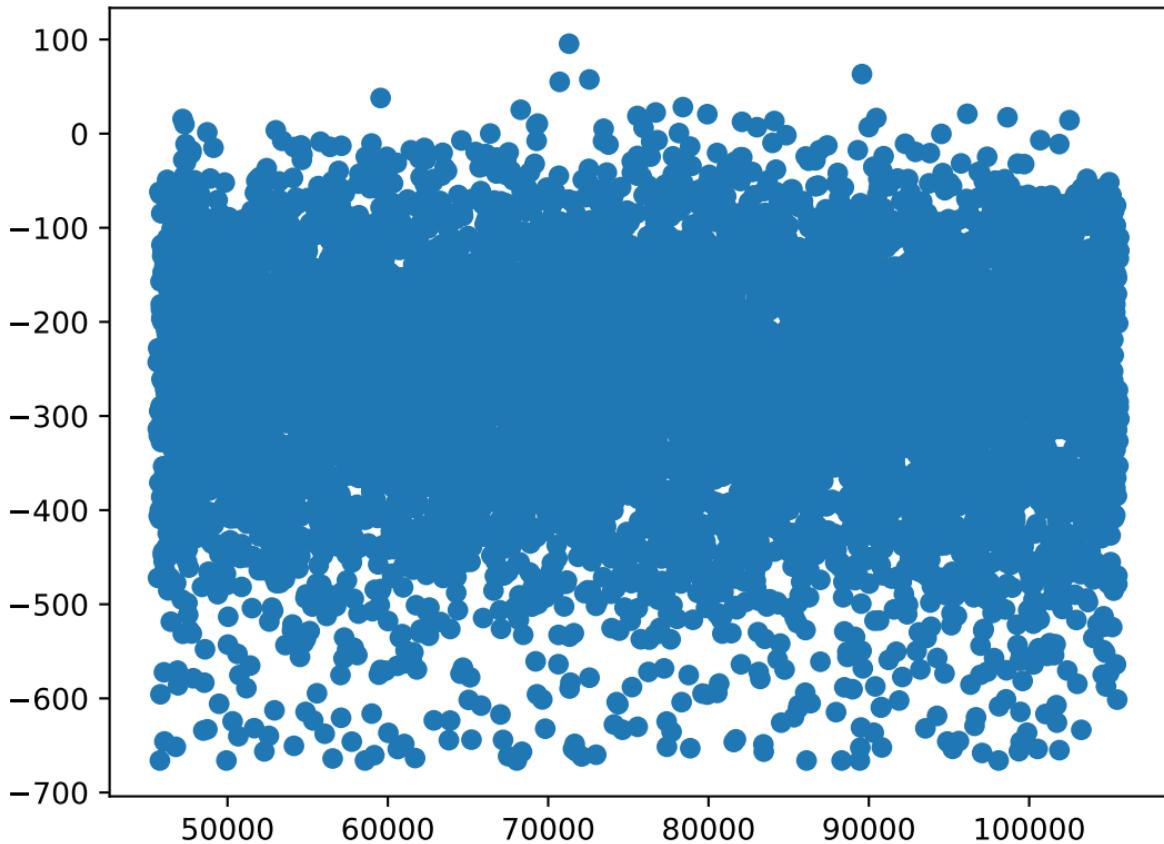
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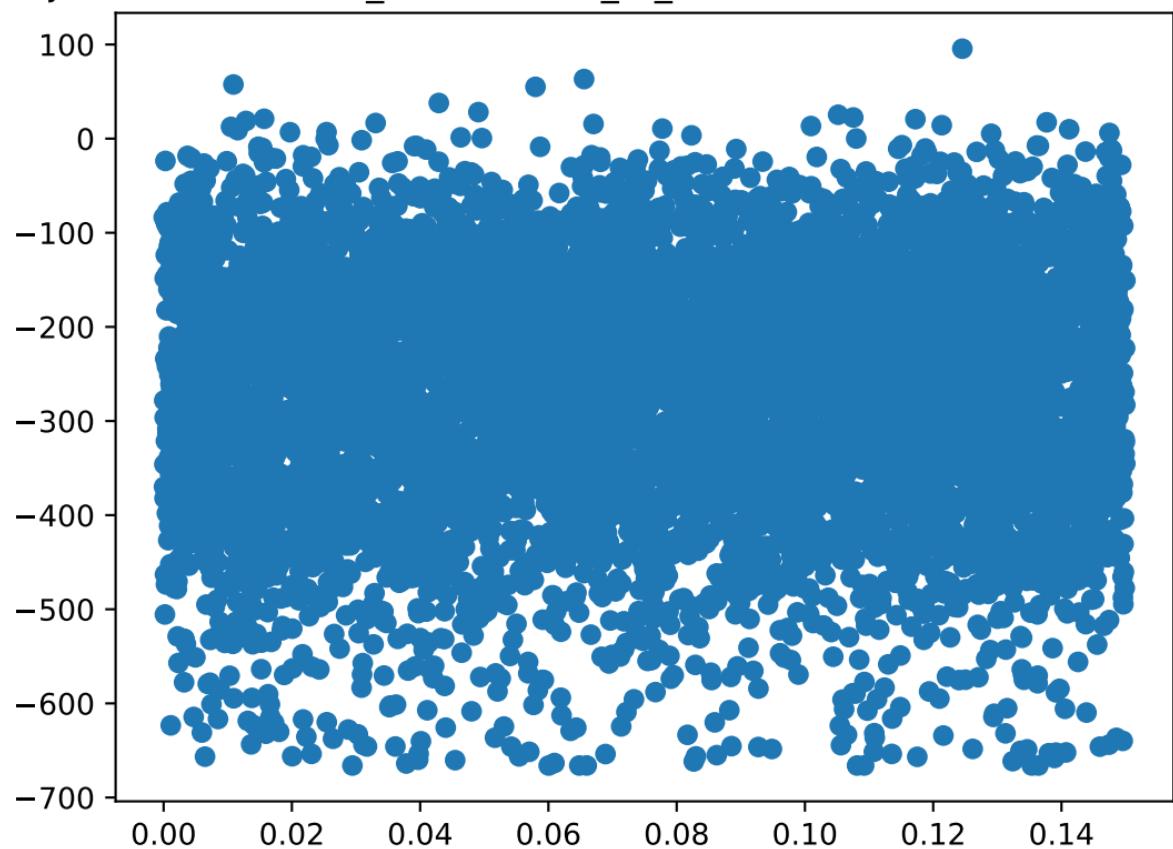
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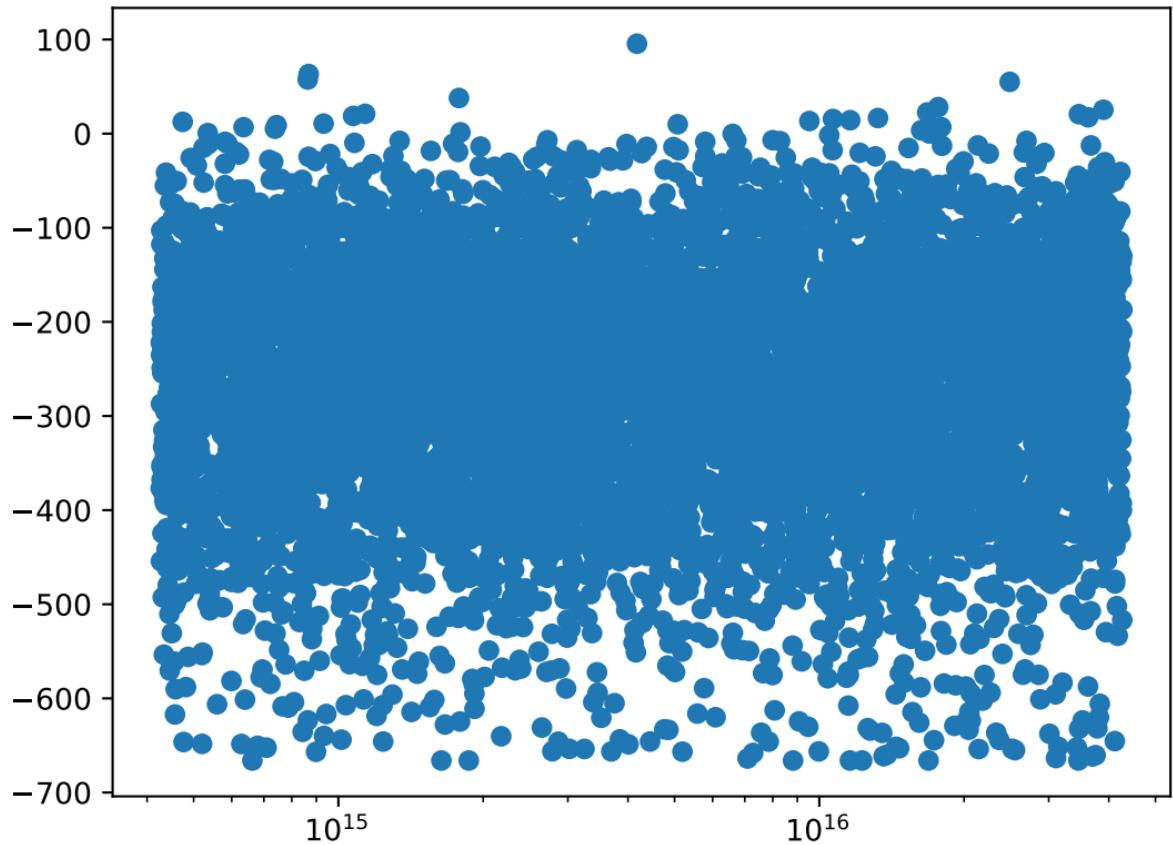
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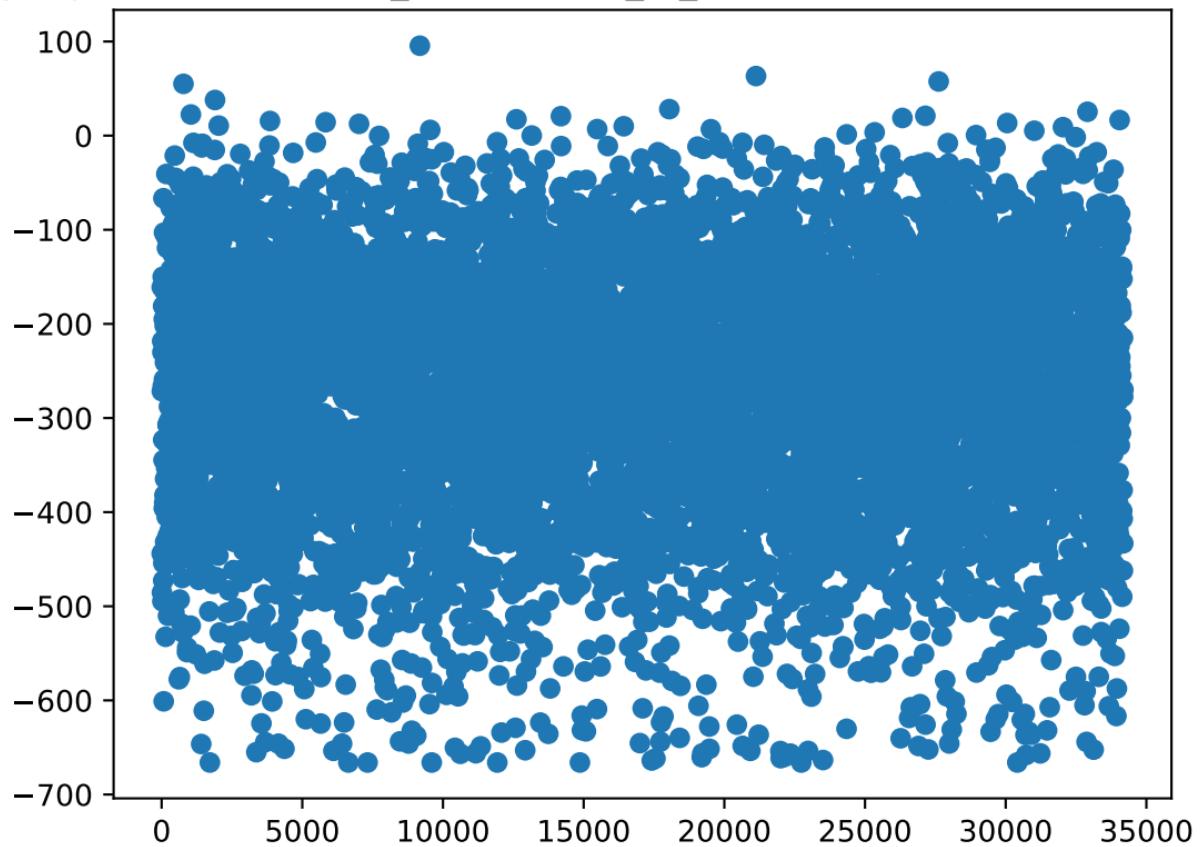
log obj func low Surface_DoubleBond_to_Bidentate/Combined;VacantSite/alpha



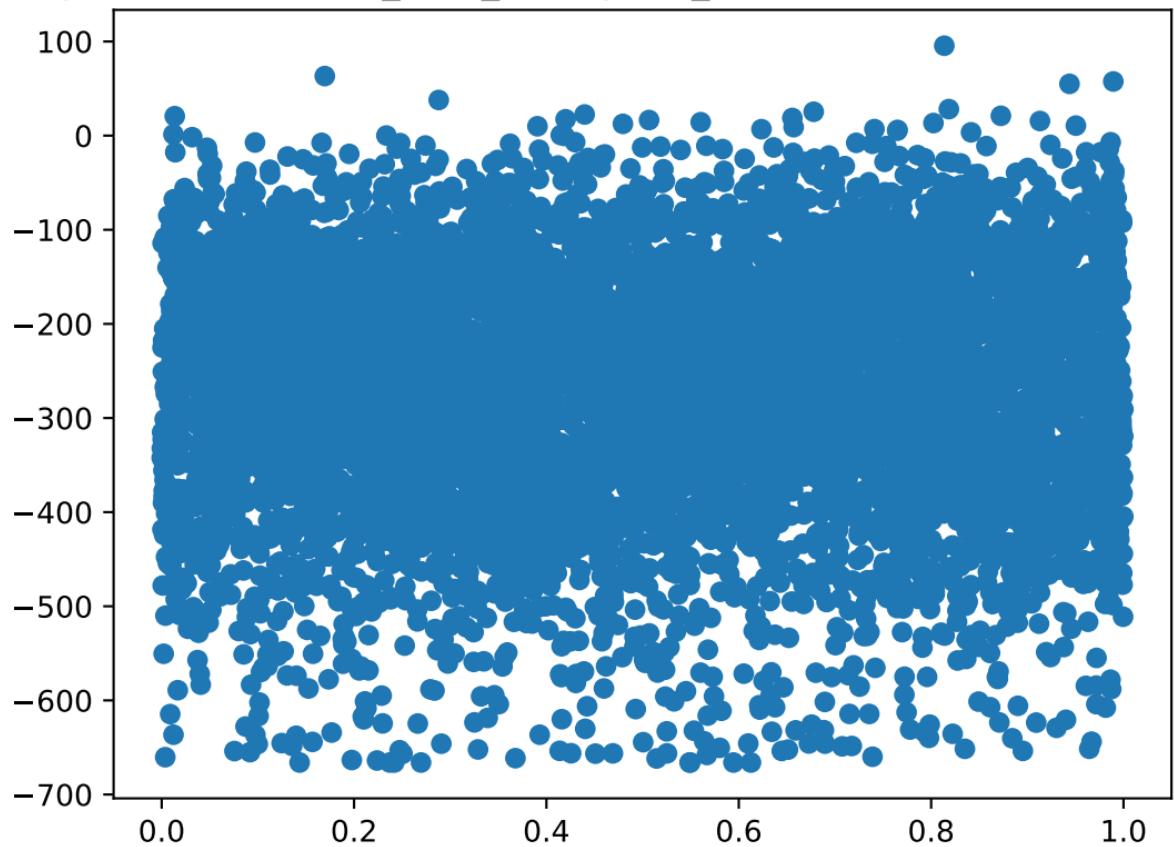
log obj func low Surface_DoubleBond_to_Bidentate/Combined;VacantSite/A



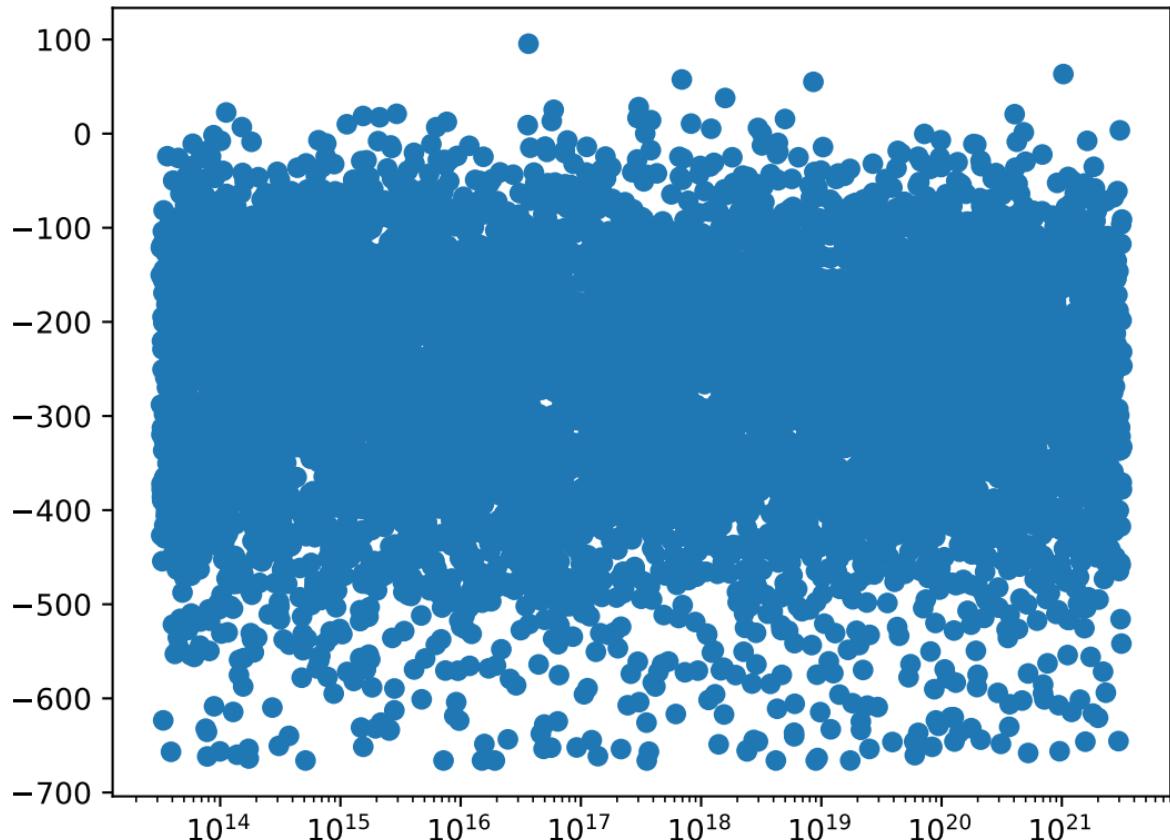
log obj func low Surface_DoubleBond_to_Bidentate/Combined;VacantSite/EO



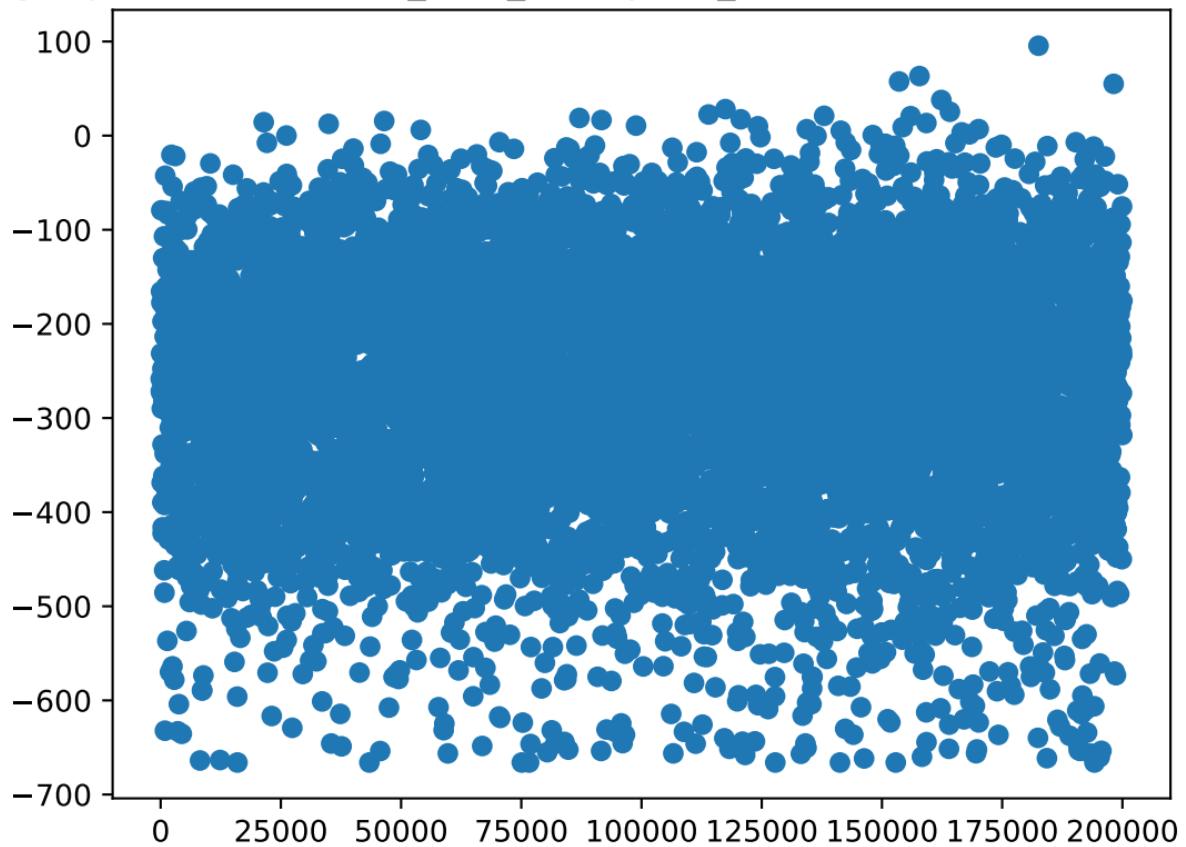
log obj func low Surface_Dual_Adsorption_vdW/Adsorbate1;Adsorbate2/alph



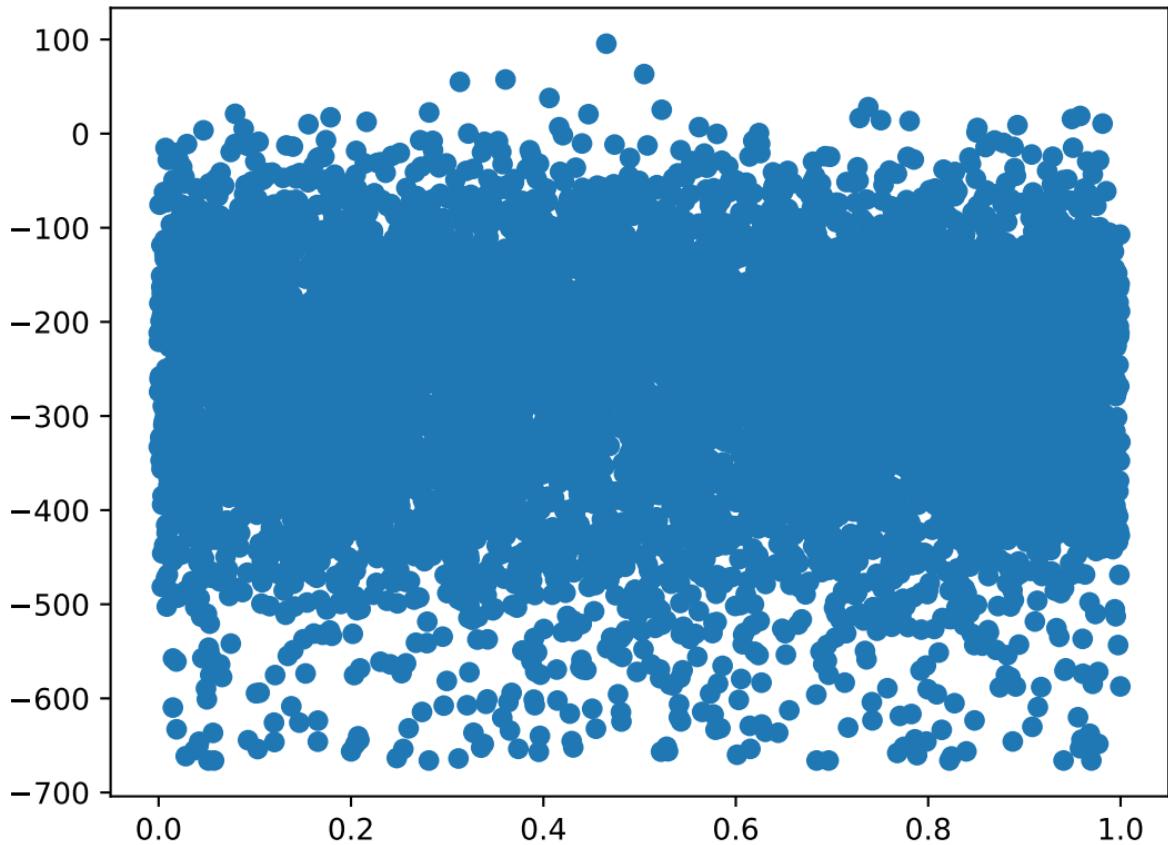
log obj func low Surface_Dual_Adsorption_vdW/Adsorbate1;Adsorbate2/A



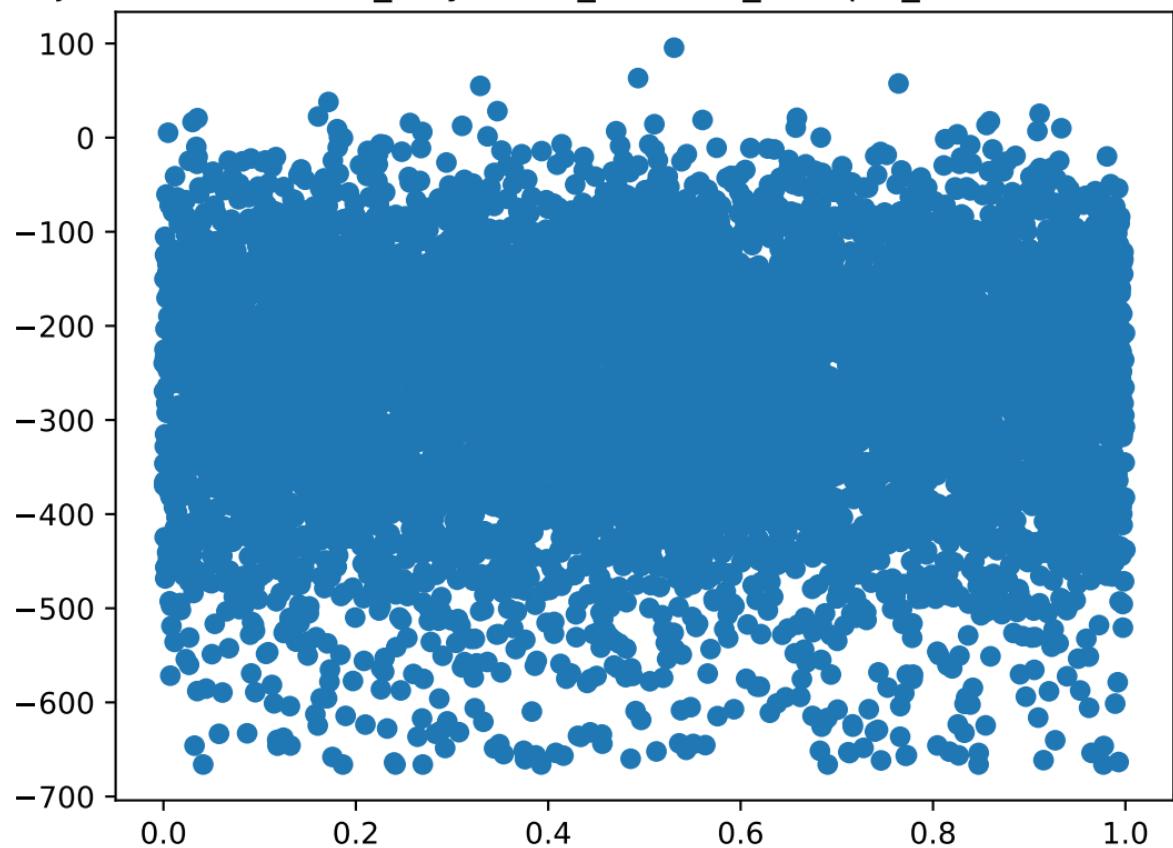
log obj func low Surface_Dual_Adsorption_vdW/Adsorbate1;Adsorbate2/E0



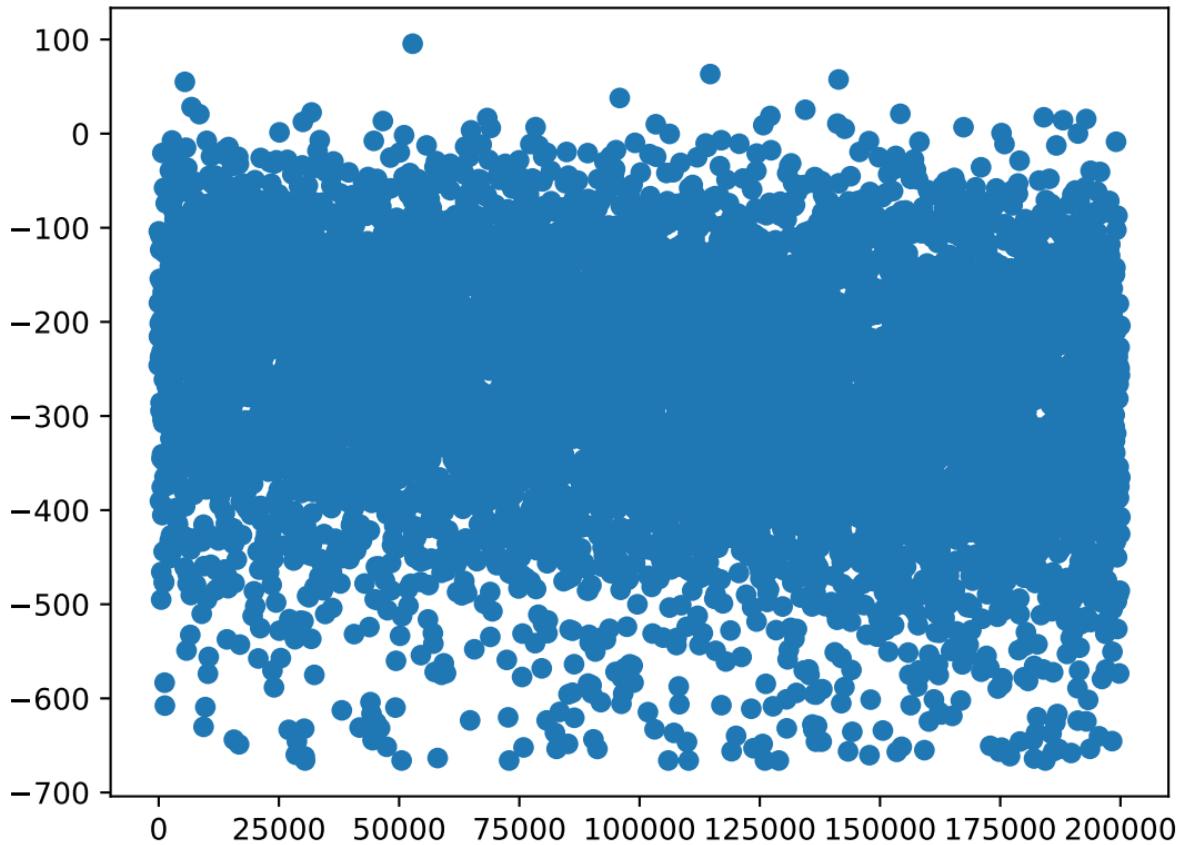
g obj func low Surface_EleyRideal_Addition_Multiple_Bond/Adsorbate1;Gas/al



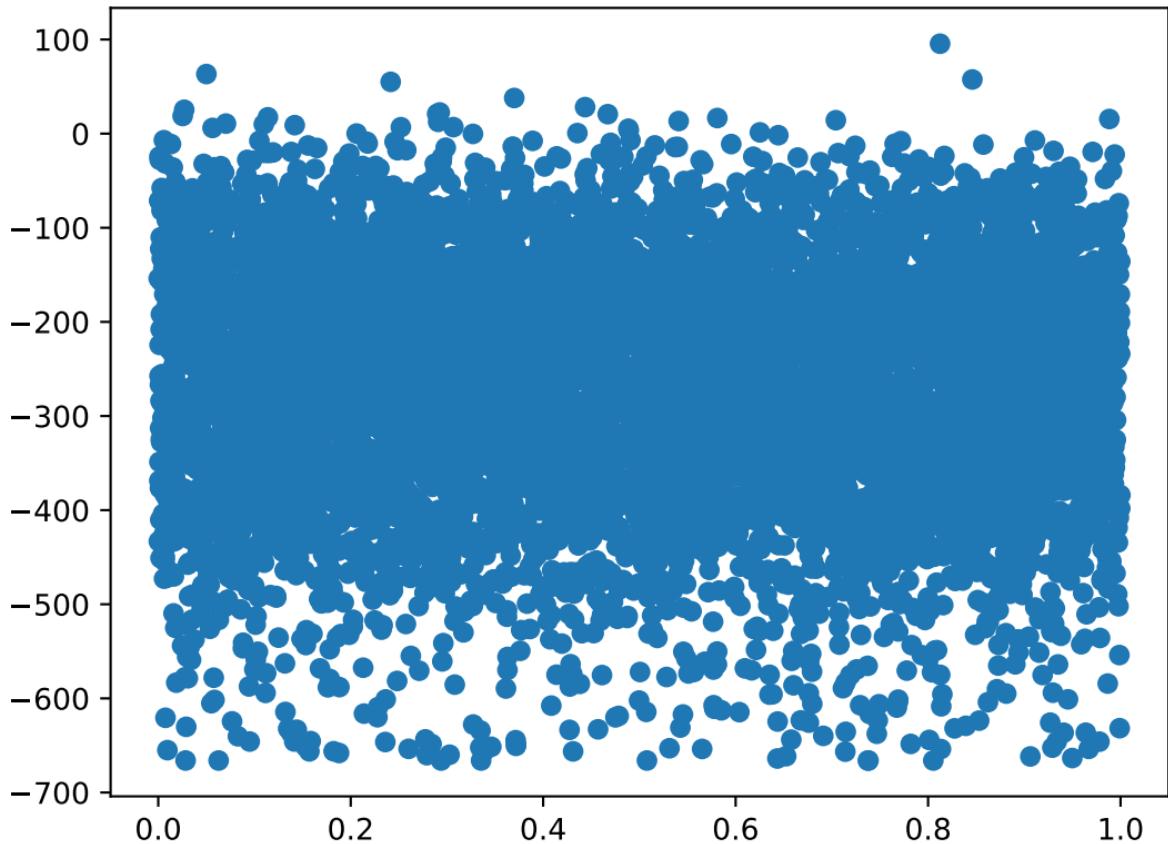
log obj func low Surface_EleyRideal_Addition_Multiple_Bond/Adsorbate1;Gas



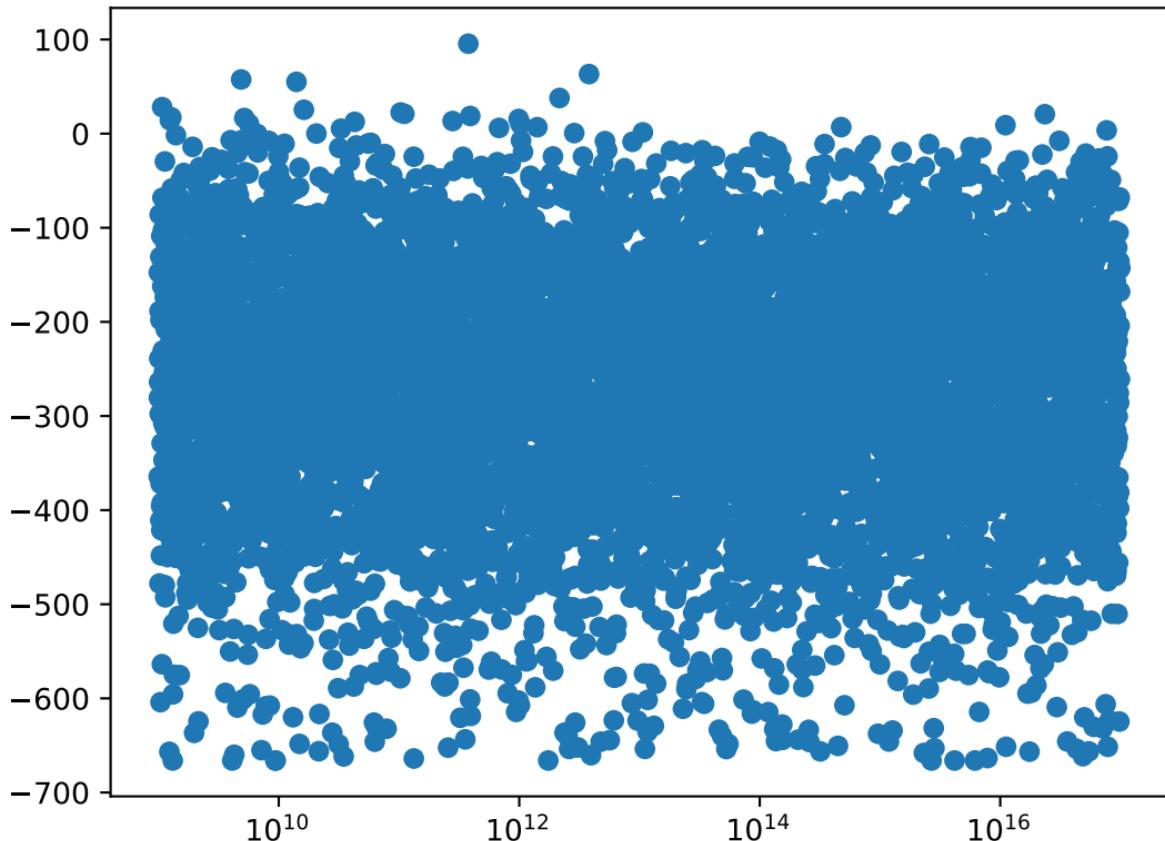
og obj func low Surface_EleyRideal_Addition_Multiple_Bond/Adsorbate1;Gas/



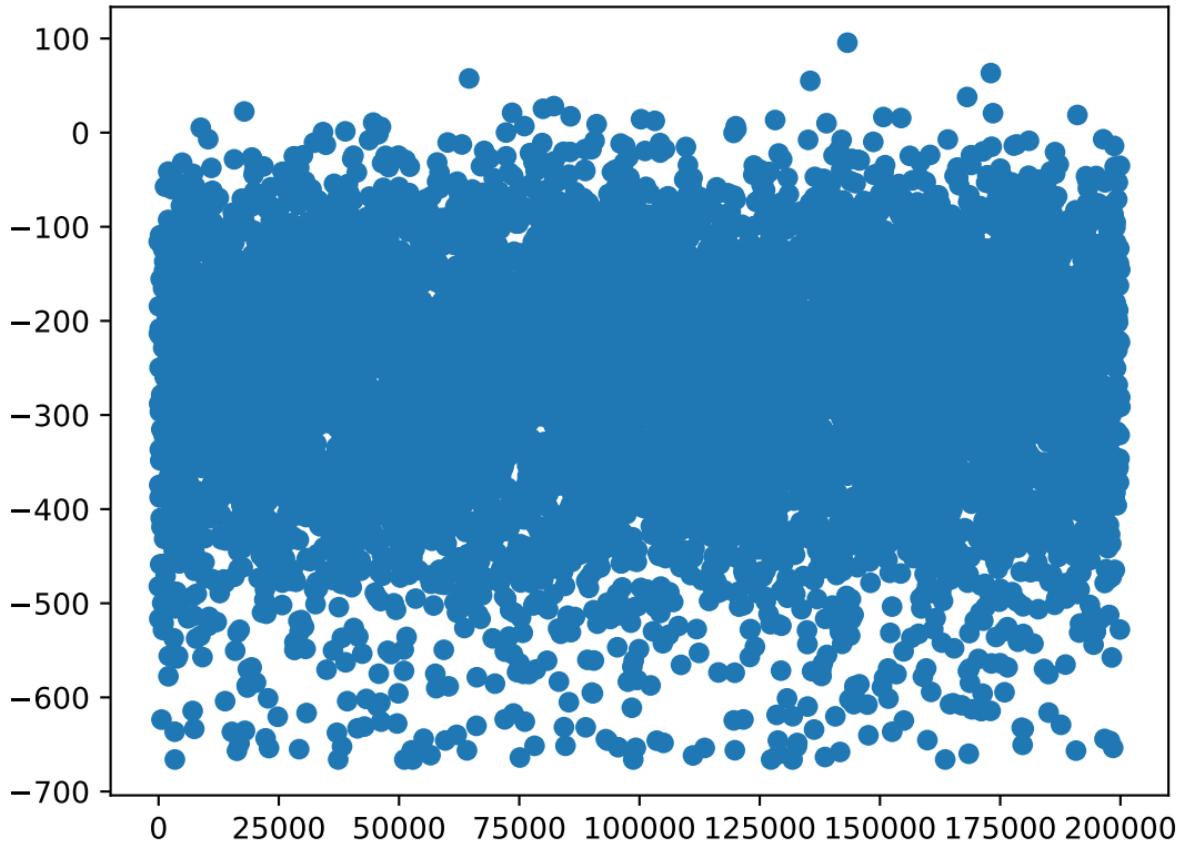
log obj func low Surface_Migration/Adsorbate1/alpha



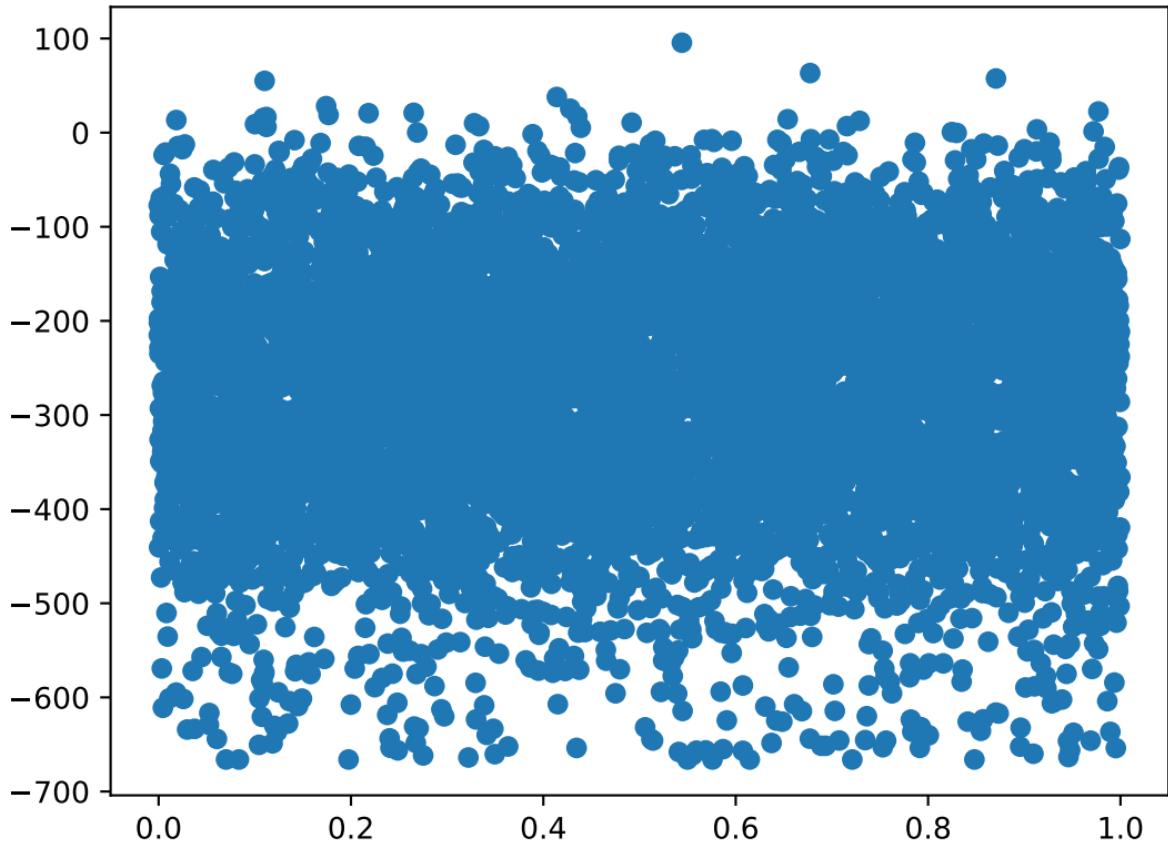
log obj func low Surface_Migration/Adsorbate1/A



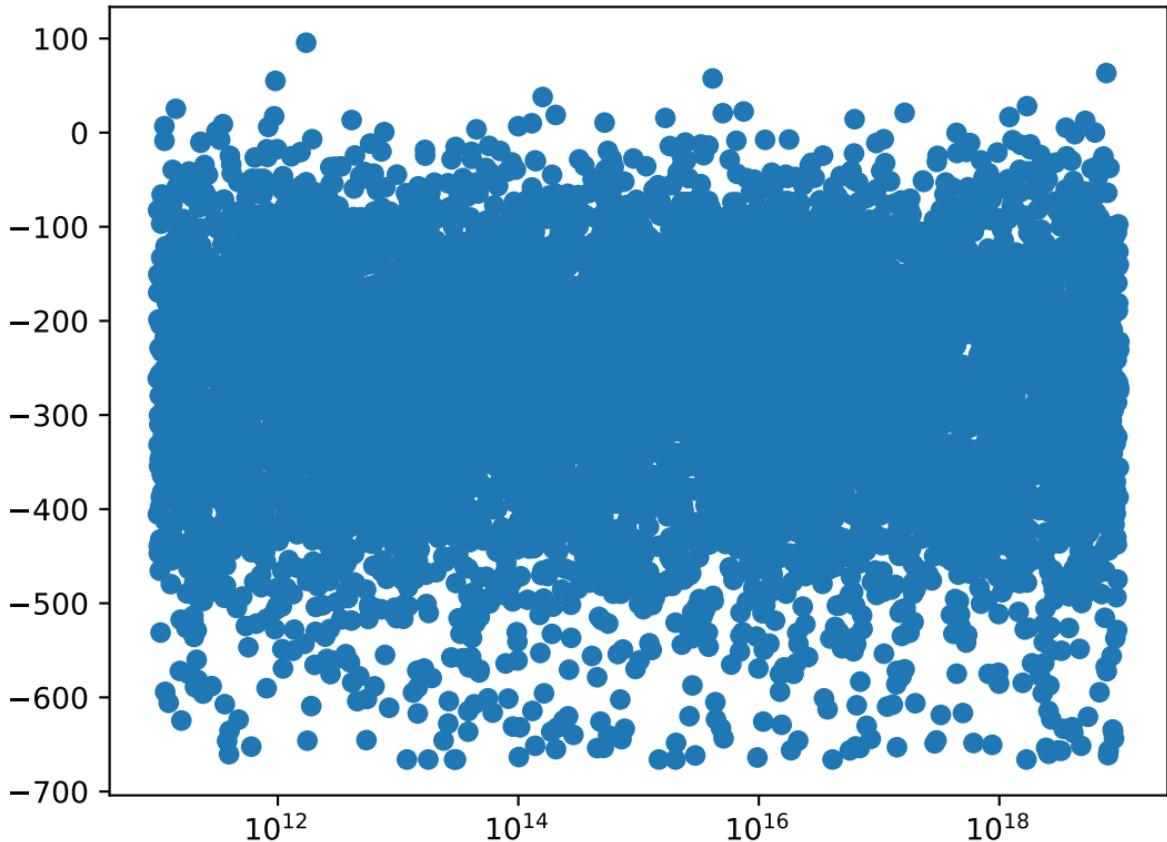
log obj func low Surface_Migration/Adsorbate1/E0



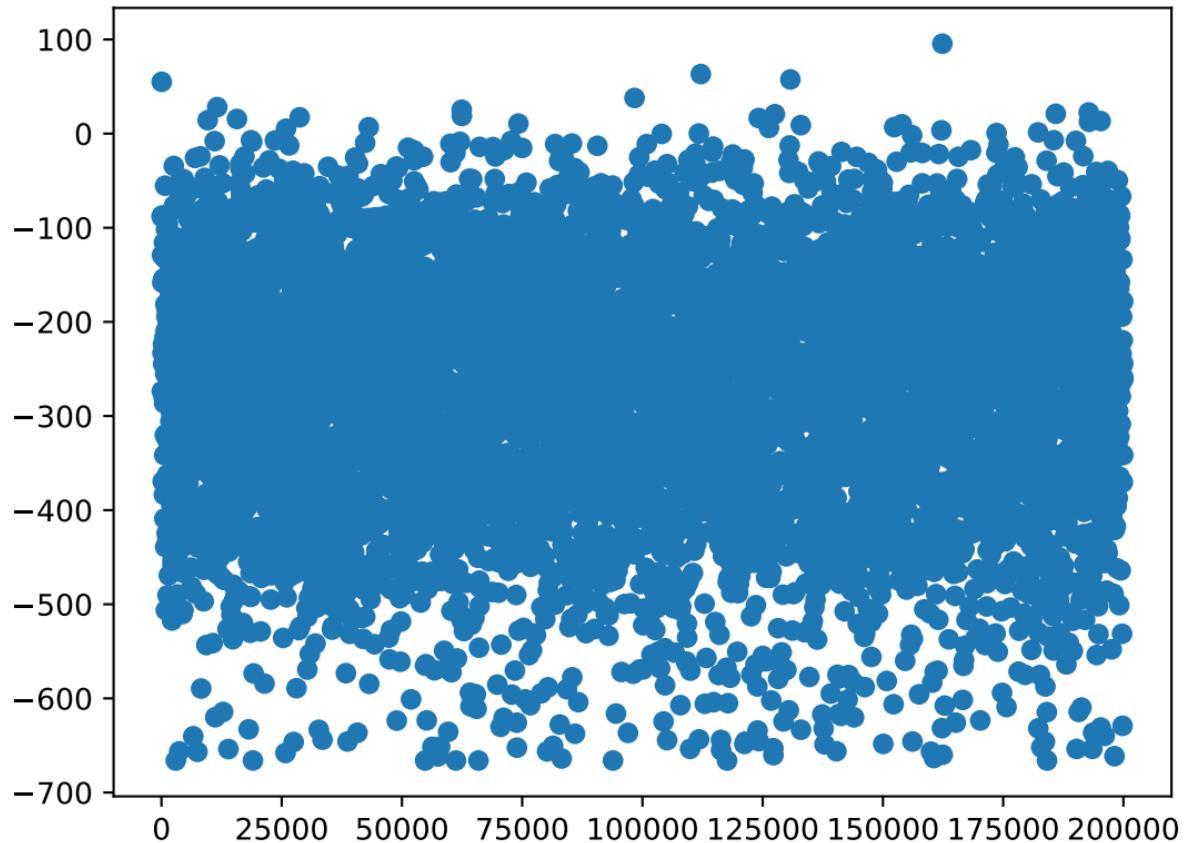
log obj func low Surface_vdW_to_Bidentate/Combined;VacantSite/alpha



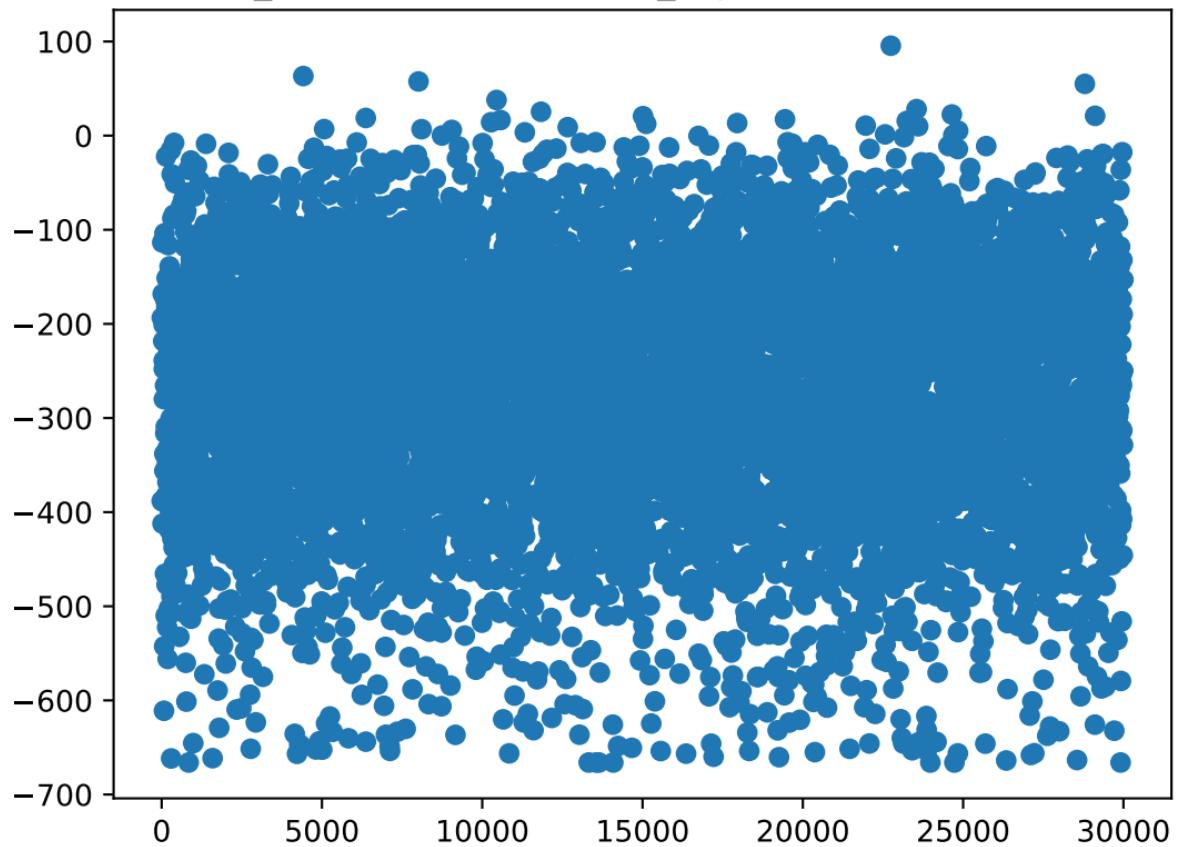
log obj func low Surface_vdW_to_Bidentate/Combined;VacantSite/A



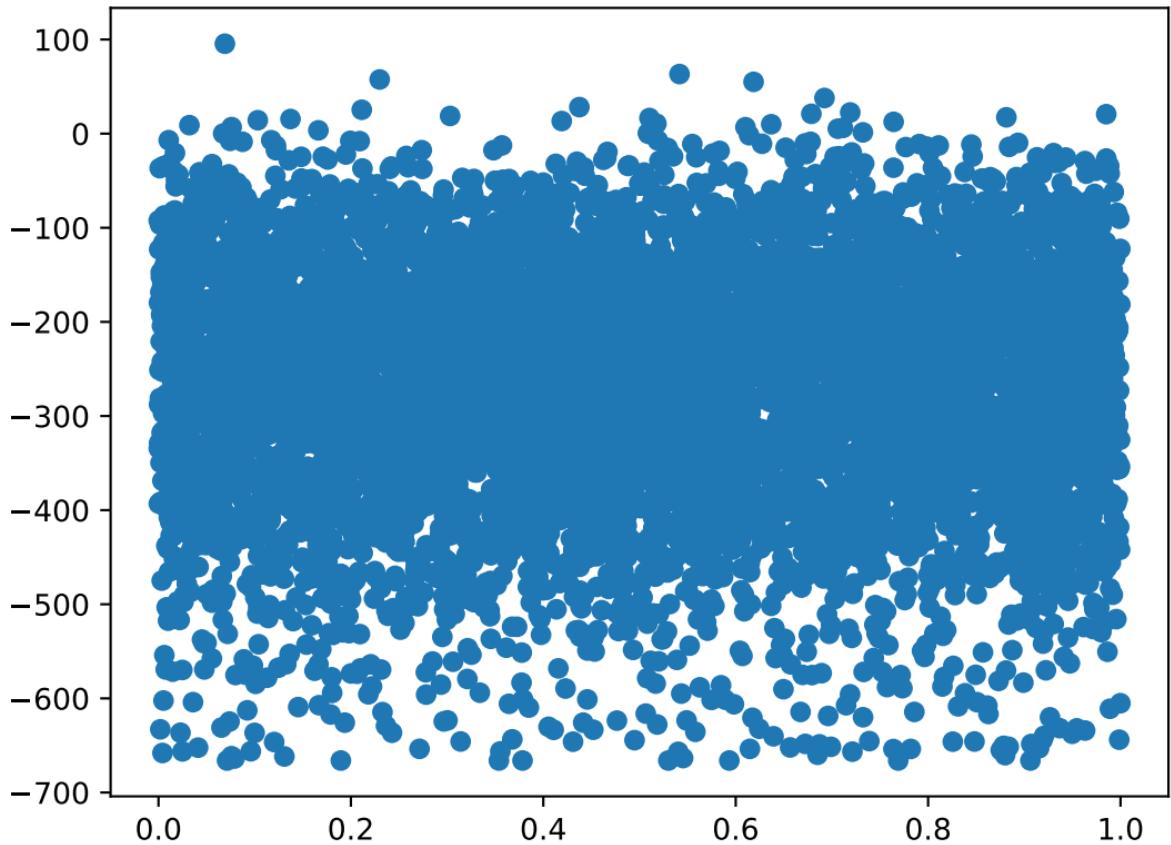
log obj func low Surface_vdW_to_Bidentate/Combined;VacantSite/E0



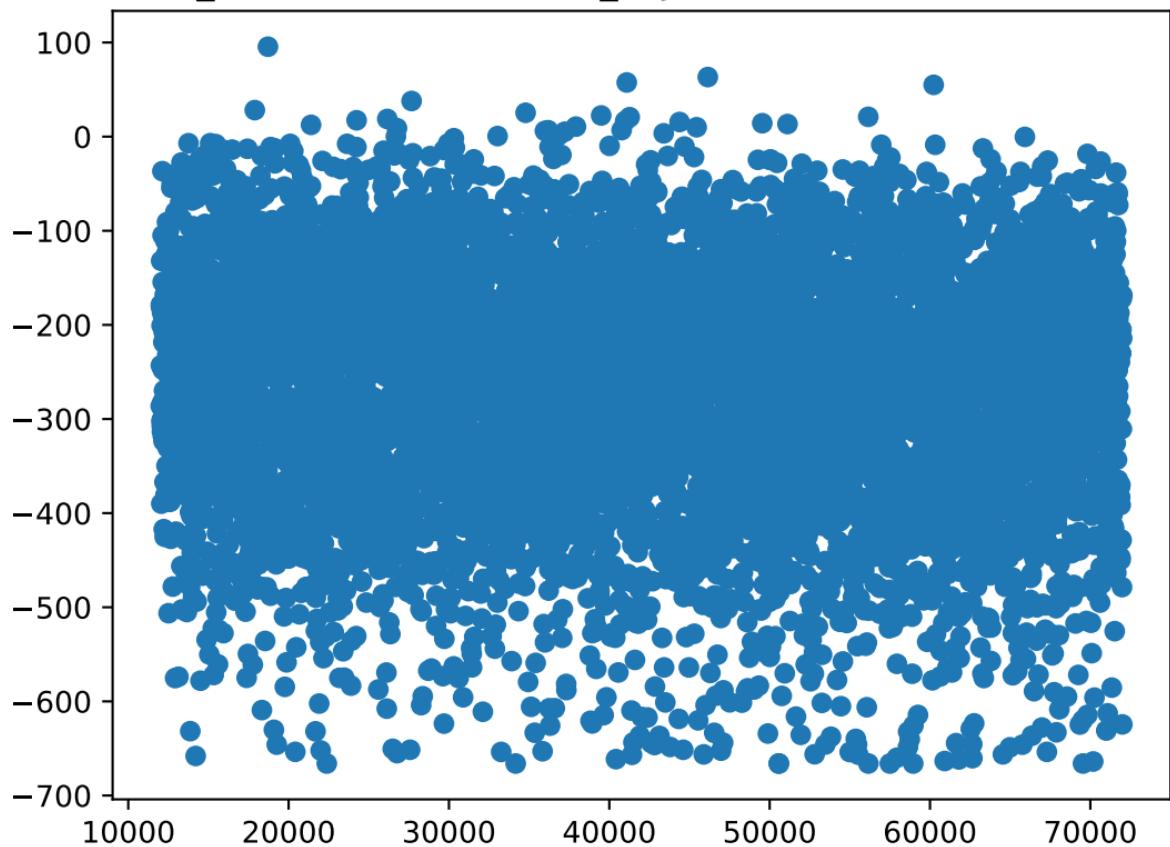
obj func low CPOX_Pt/Deutschmann2006_adjusted/1/H2 + Pt + Pt <=> HX +



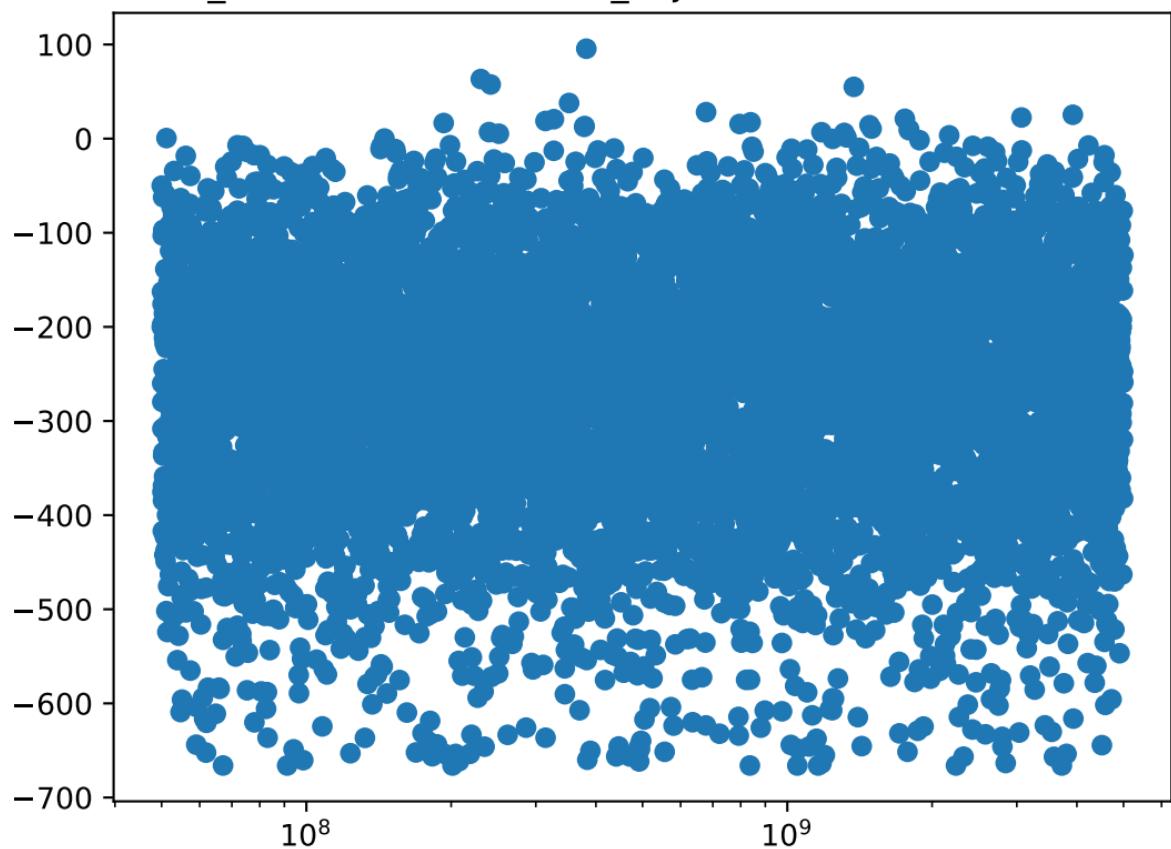
obj func low CPOX_Pt/Deutschmann2006_adjusted/1/H2 + Pt + Pt <=> HX +



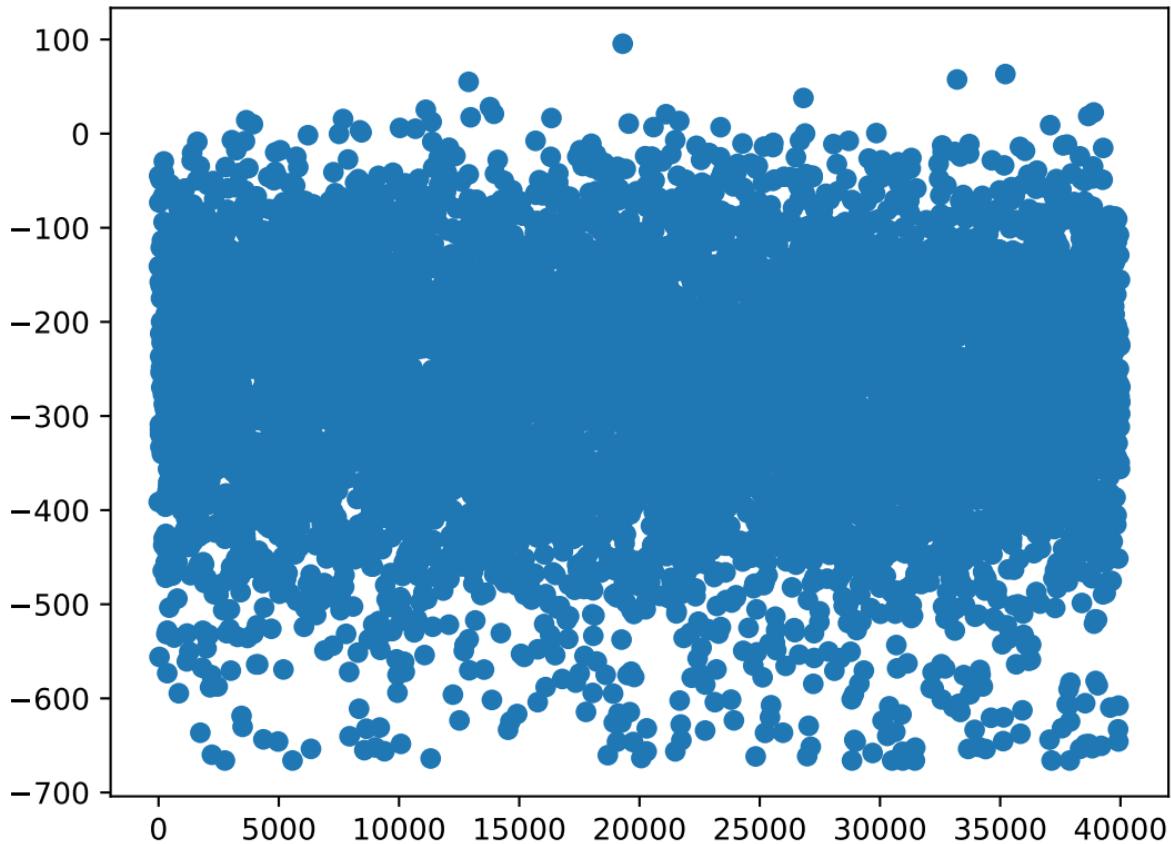
func low CPOX_Pt/Deutschmann2006_adjusted/4/CH4 + OX + Pt <=> CH3X



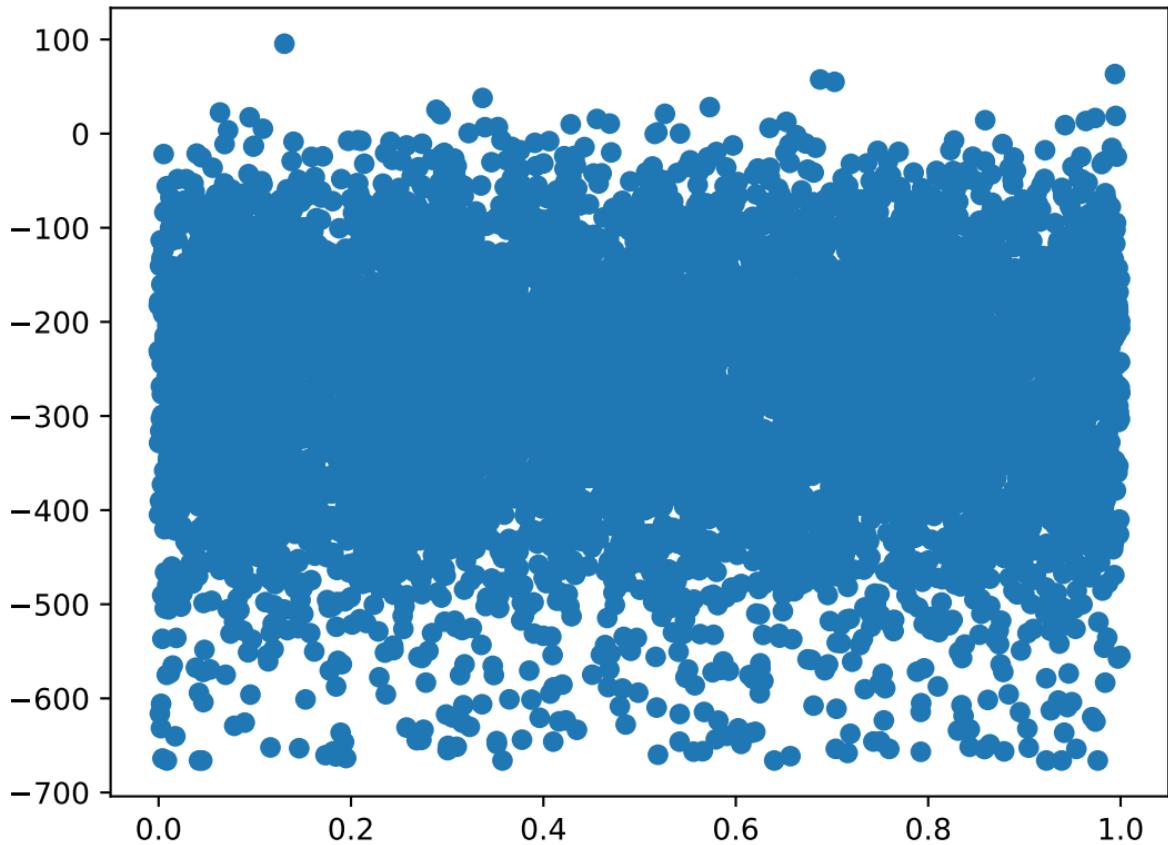
func low CPOX_Pt/Deutschmann2006_adjusted/4/CH4 + OX + Pt <=> CH3X



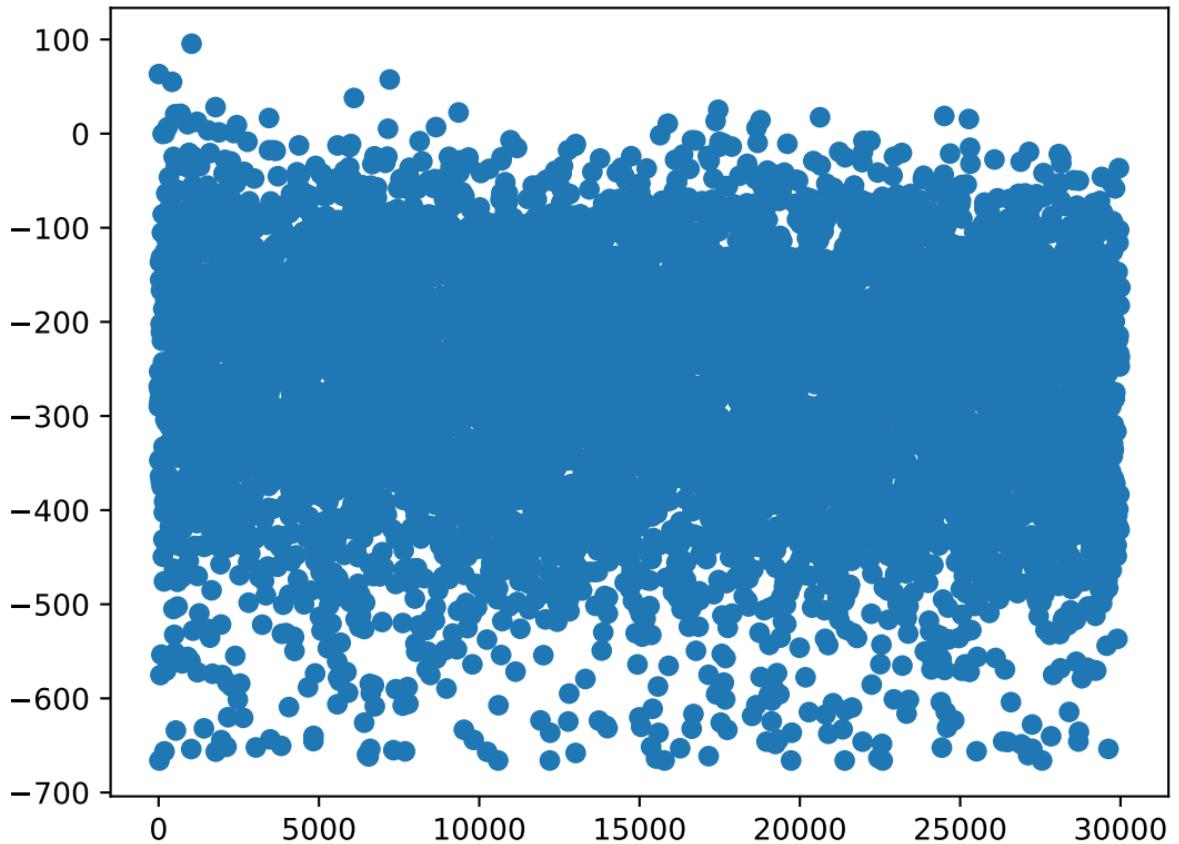
unc low CPOX_Pt/Deutschmann2006_adjusted/5/CH4 + HOX + Pt <=> CH3X



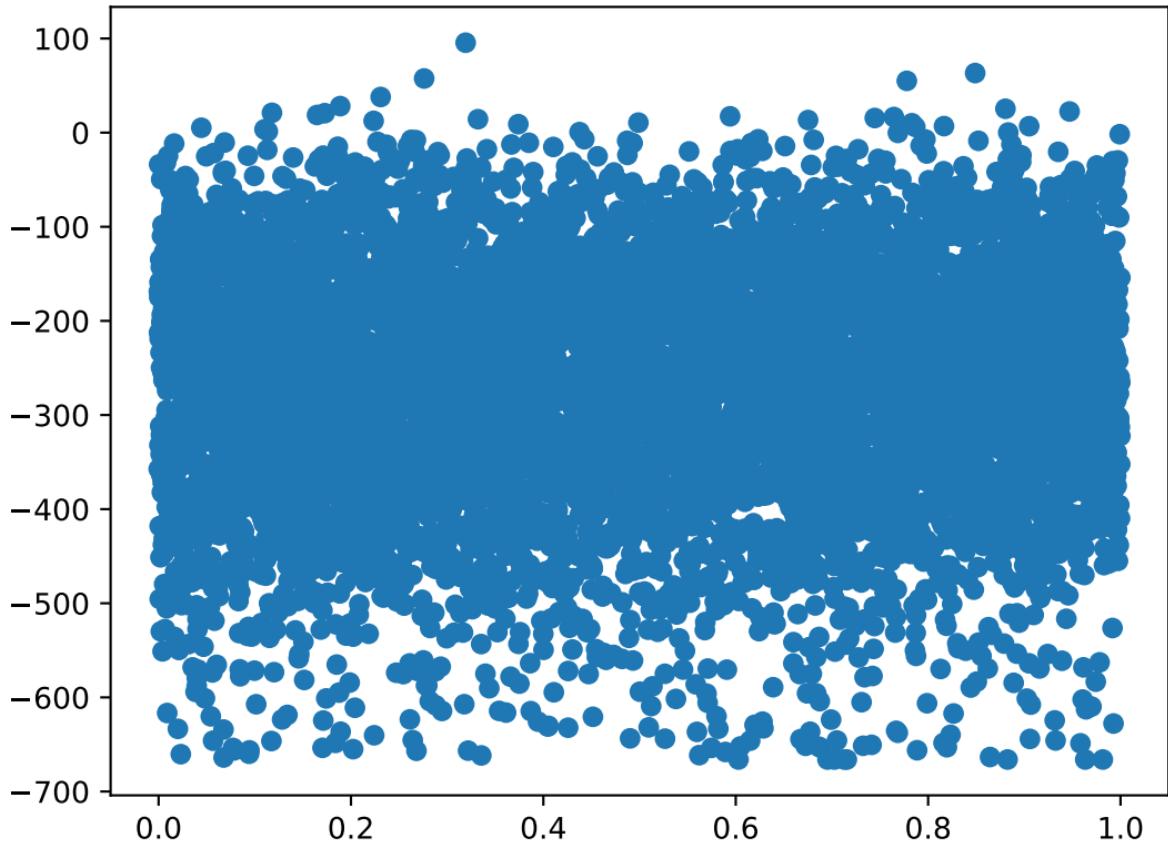
unc low CPOX_Pt/Deutschmann2006_adjusted/5/CH4 + HOX + Pt <=> CH3X



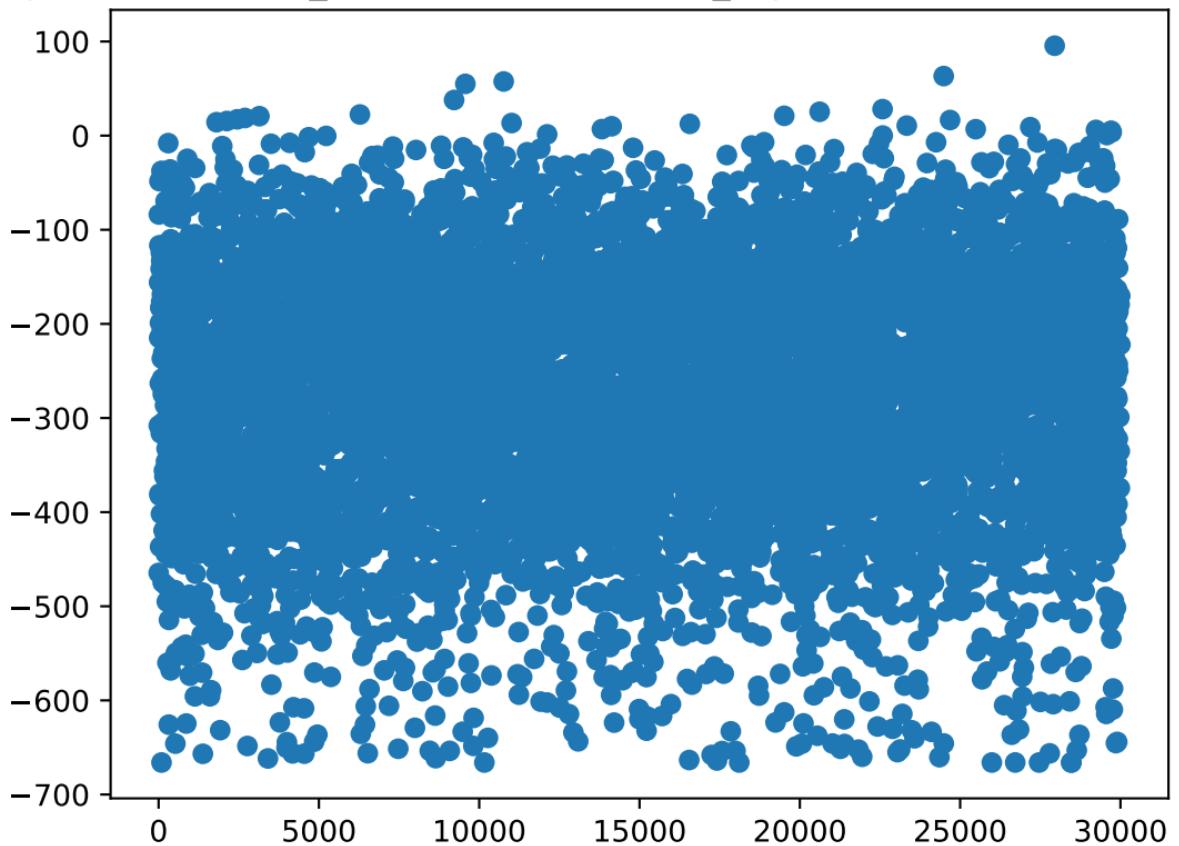
log obj func low CPOX_Pt/Deutschmann2006_adjusted/6/H₂O + Pt <=> H₂O_X



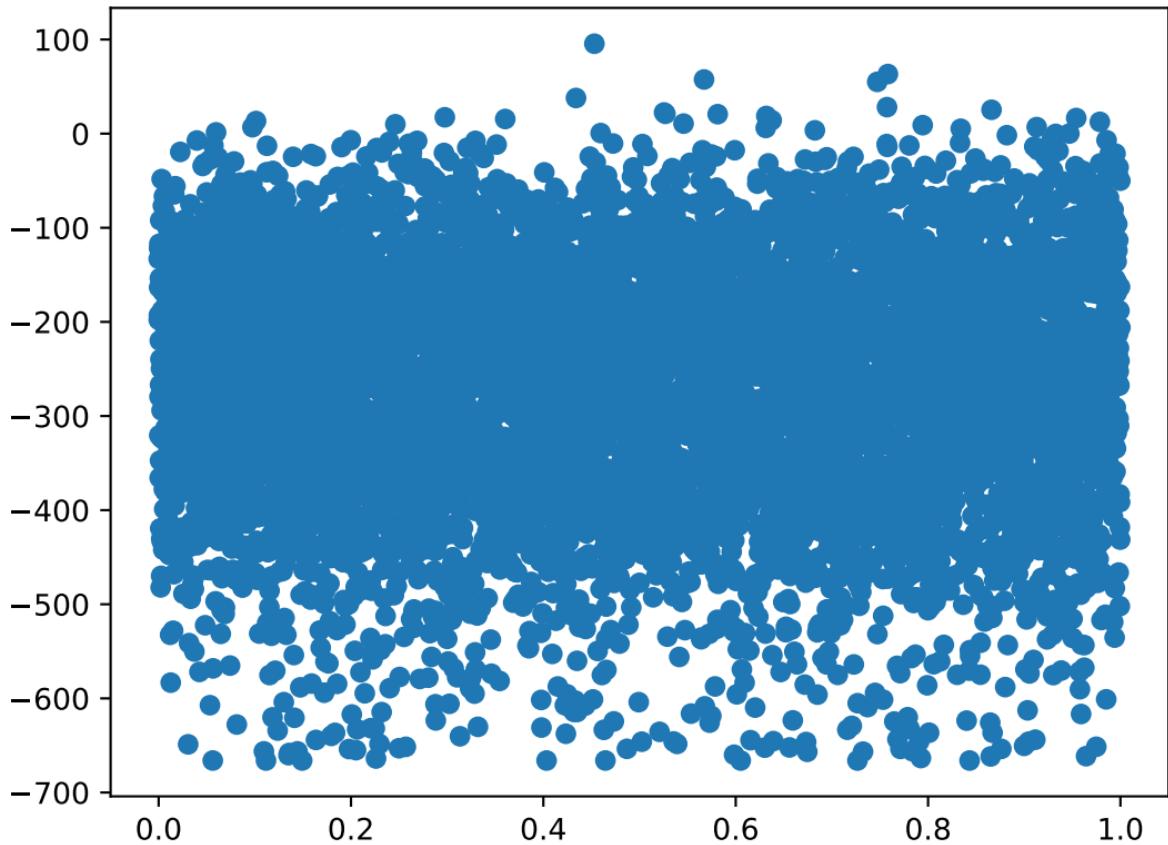
og obj func low CPOX_Pt/Deutschmann2006_adjusted/6/H2O + Pt <=> H2O



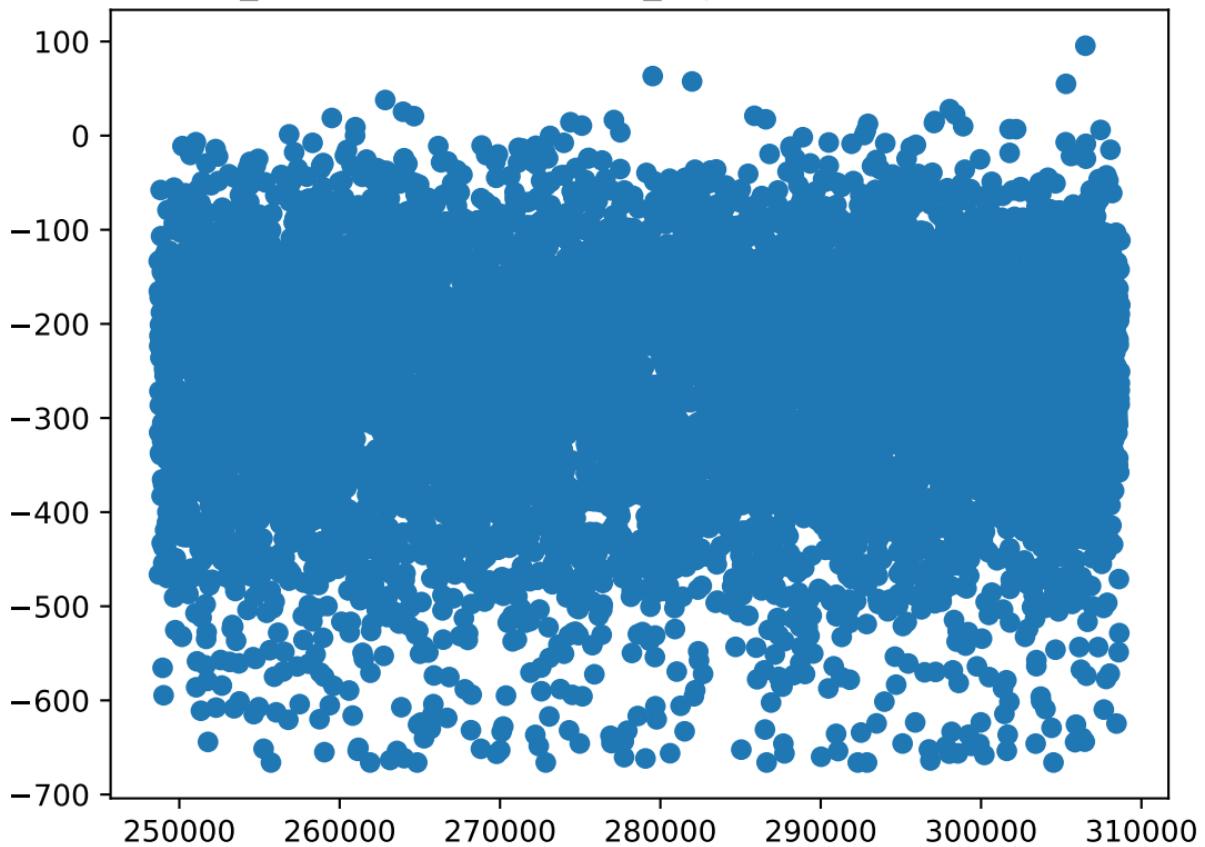
og obj func low CPOX_Pt/Deutschmann2006_adjusted/7/CO2 + Pt <=> CO2X



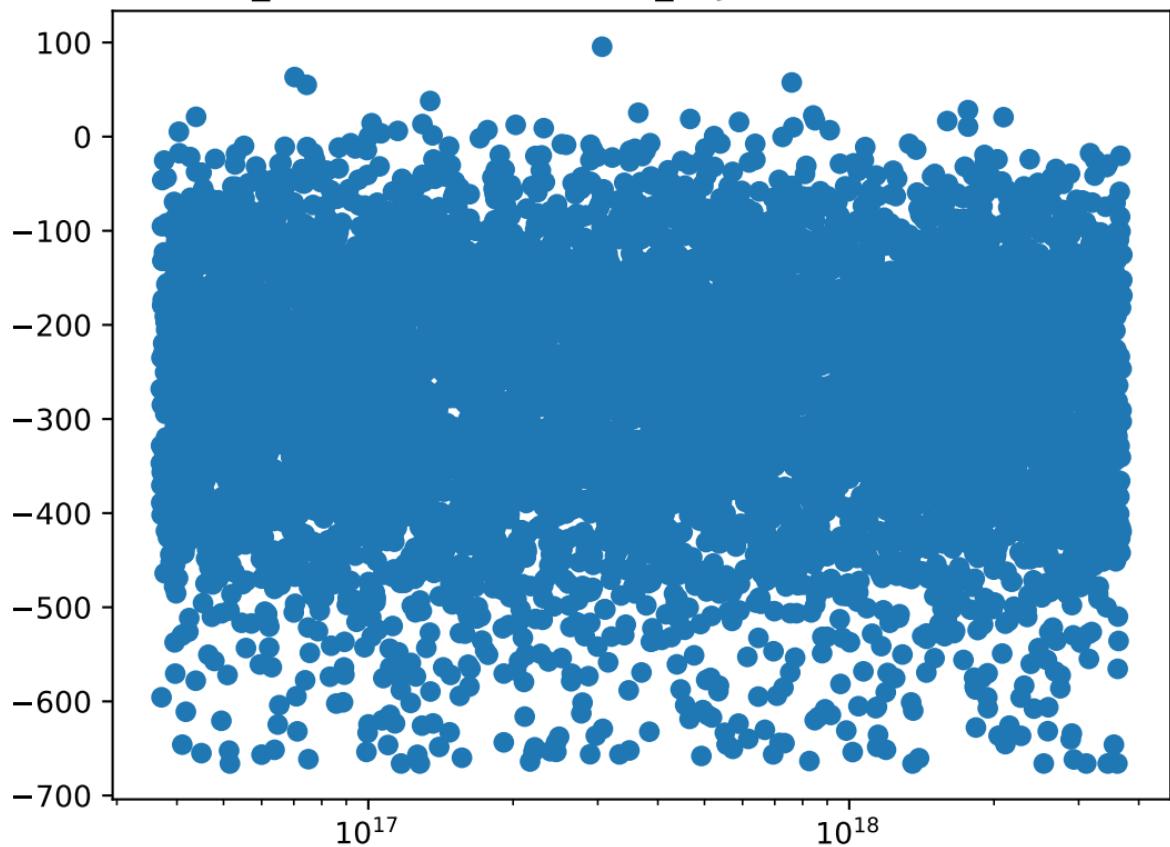
og obj func low CPOX_Pt/Deutschmann2006_adjusted/7/CO2 + Pt <= CO2X



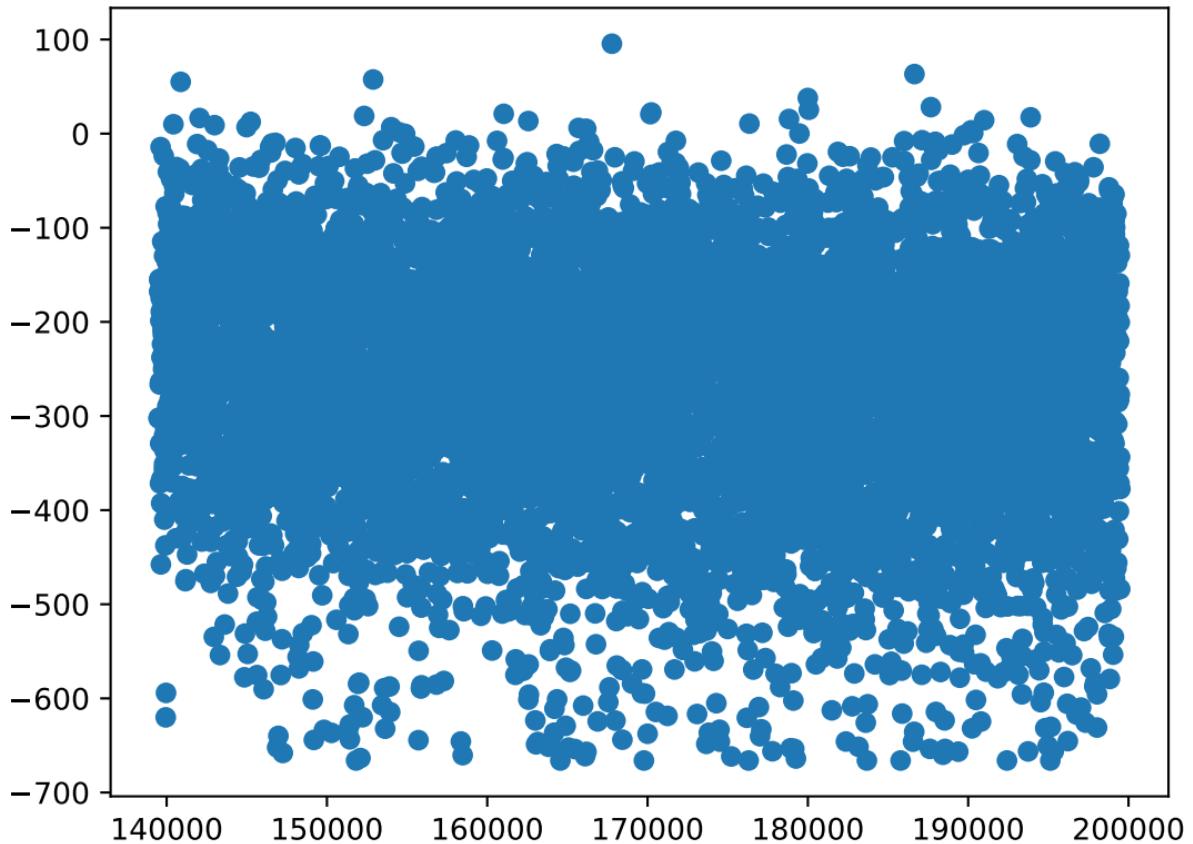
bj func low CPOX_Pt/Deutschmann2006_adjusted/10/OX + OX <=> Pt + Pt +



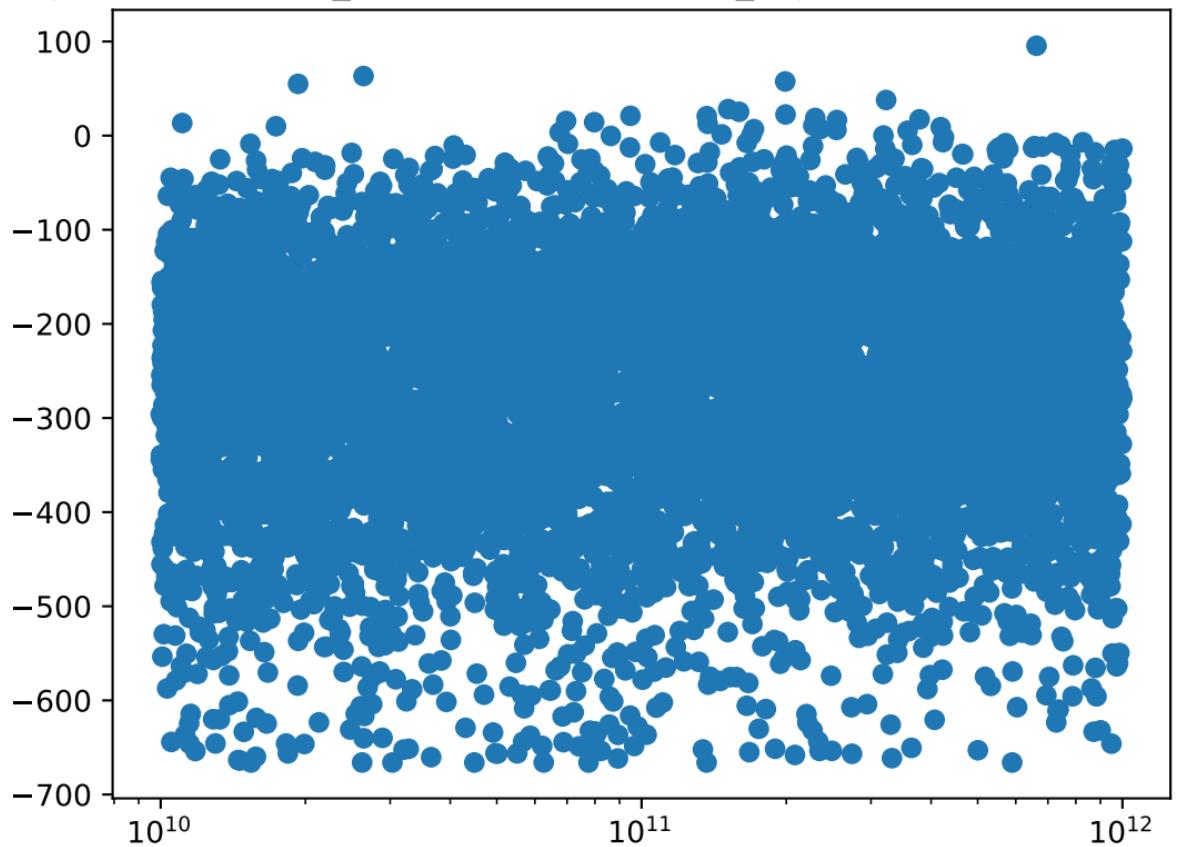
obj func low CPOX_Pt/Deutschmann2006_adjusted/10/OX + OX <=> Pt + Pt



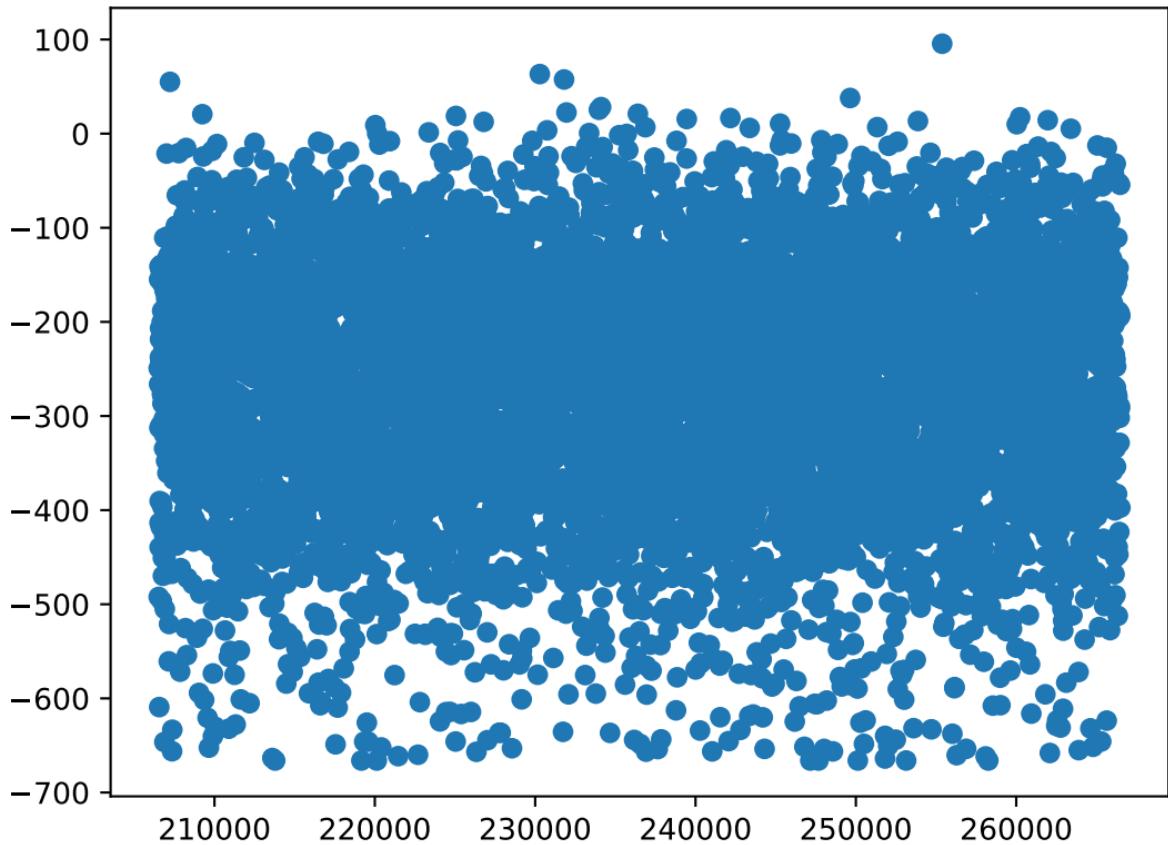
og obj func low CPOX_Pt/Deutschmann2006_adjusted/12/OCX <=> CO + Pt/



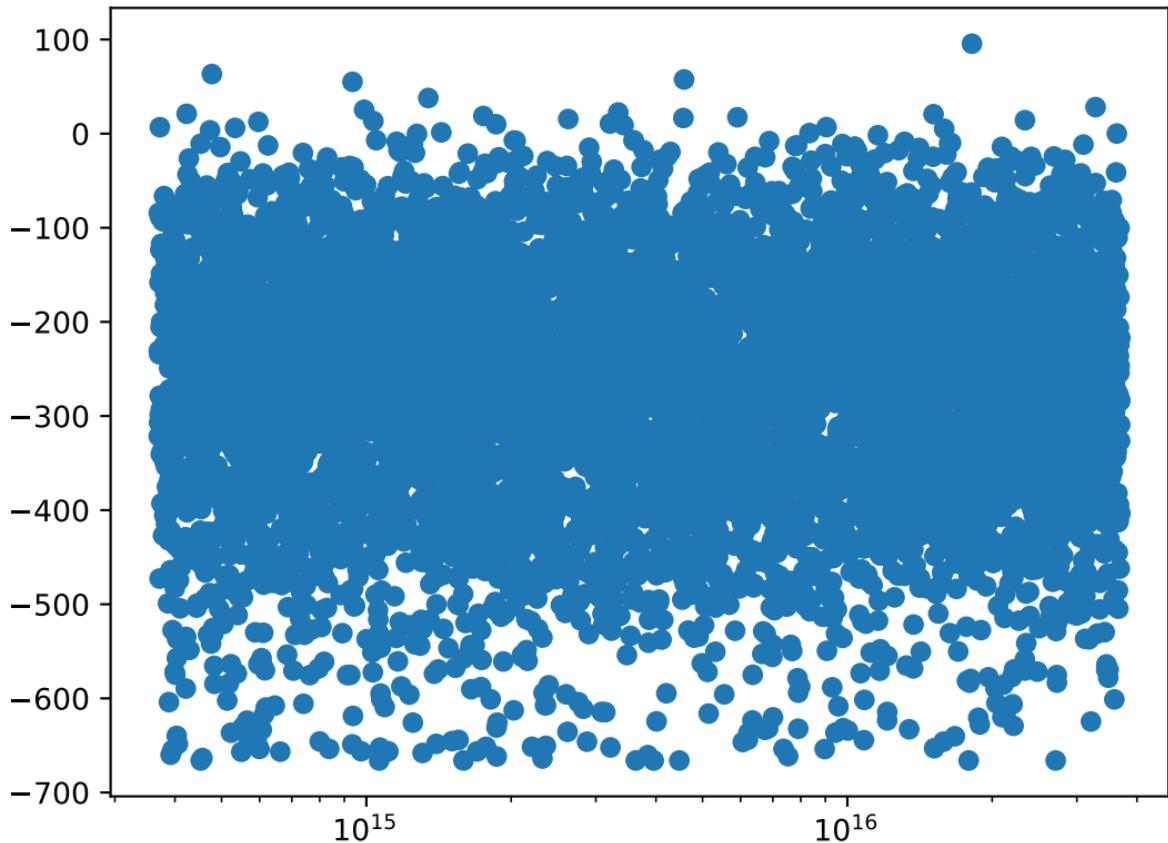
log obj func low CPOX_Pt/Deutschmann2006_adjusted/12/OCX <=> CO + Pt



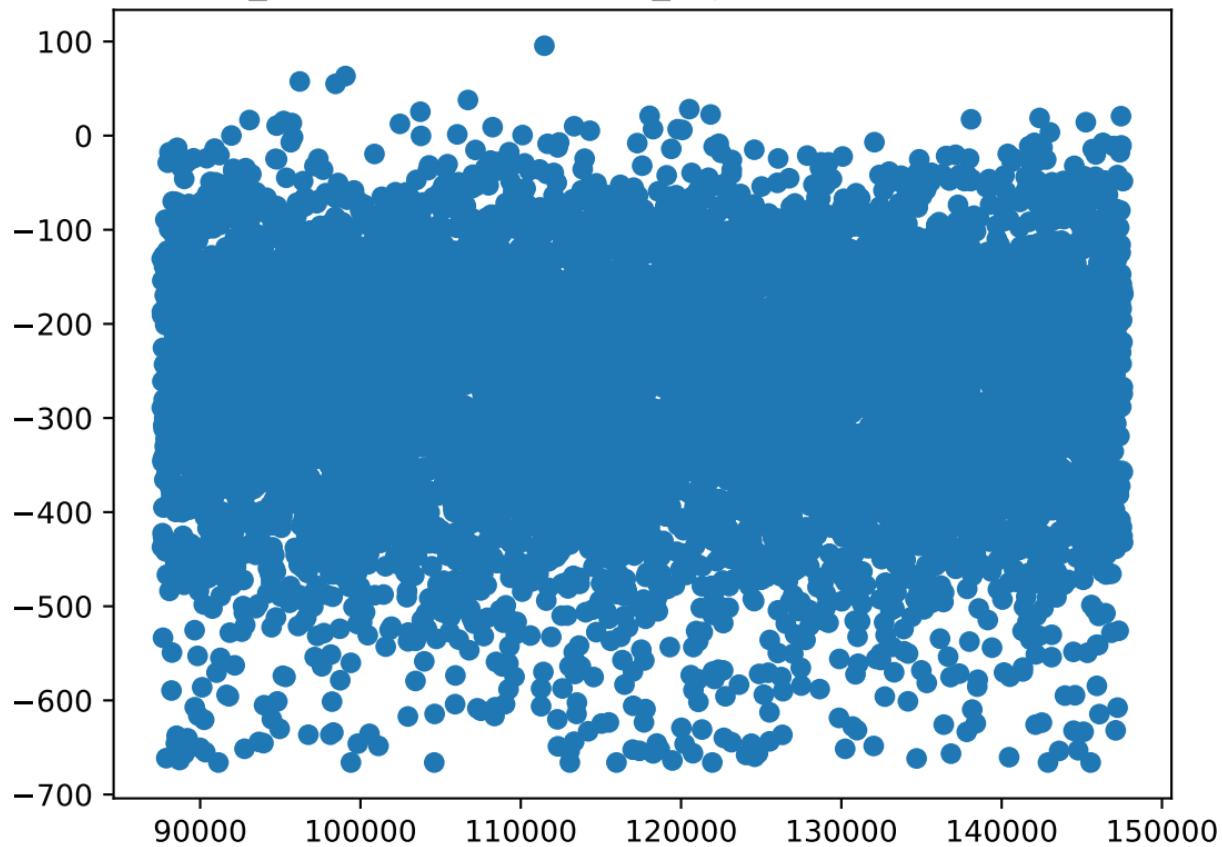
obj func low CPOX_Pt/Deutschmann2006_adjusted/15/OCX + Pt <=> CX + O



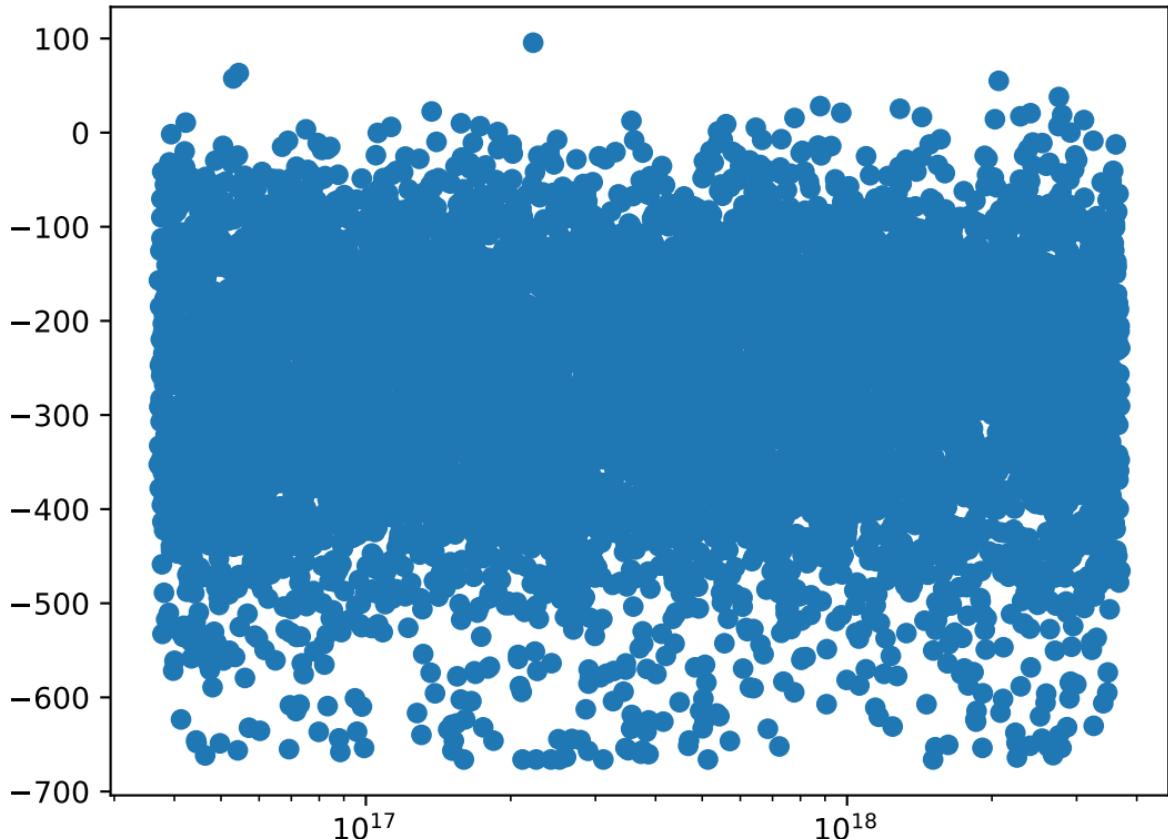
obj func low CPOX_Pt/Deutschmann2006_adjusted/15/OCX + Pt <=> CX +



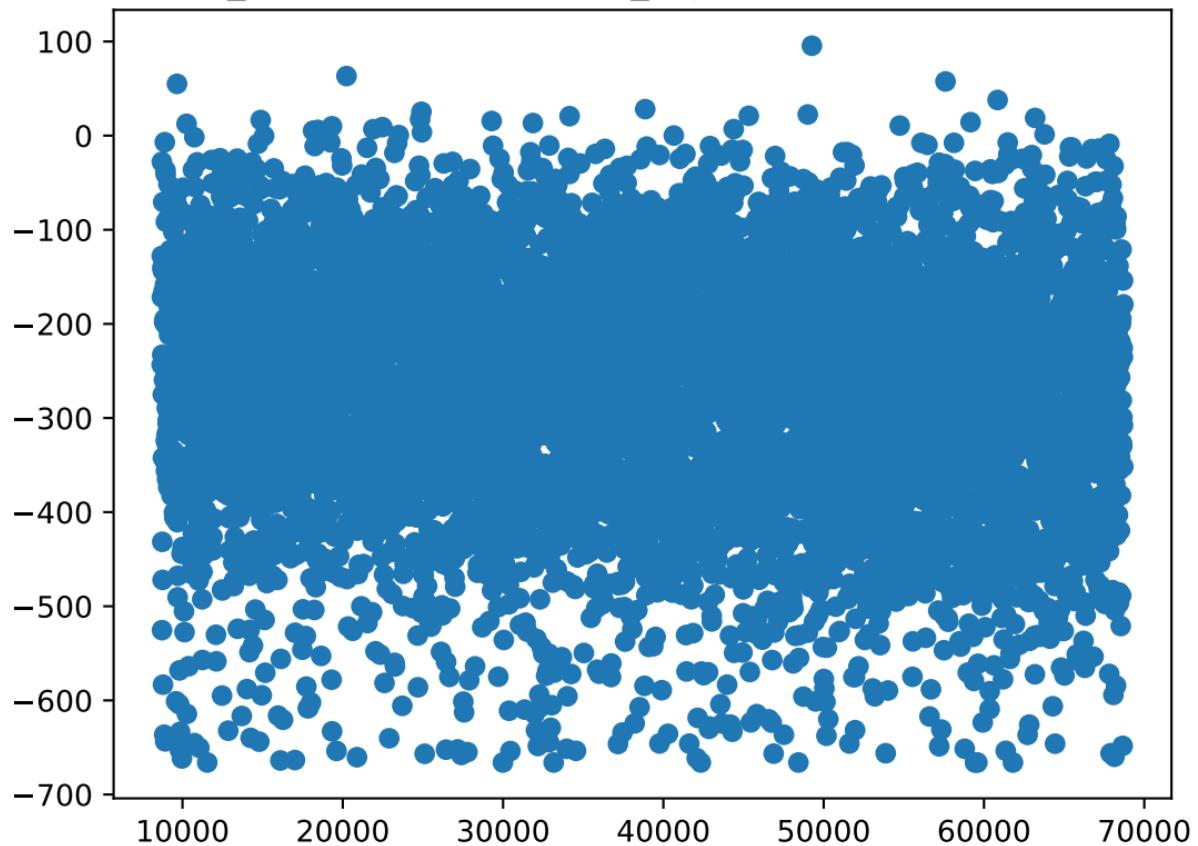
bj func low CPOX_Pt/Deutschmann2006_adjusted/16/OCX + OX <=> CO2X -



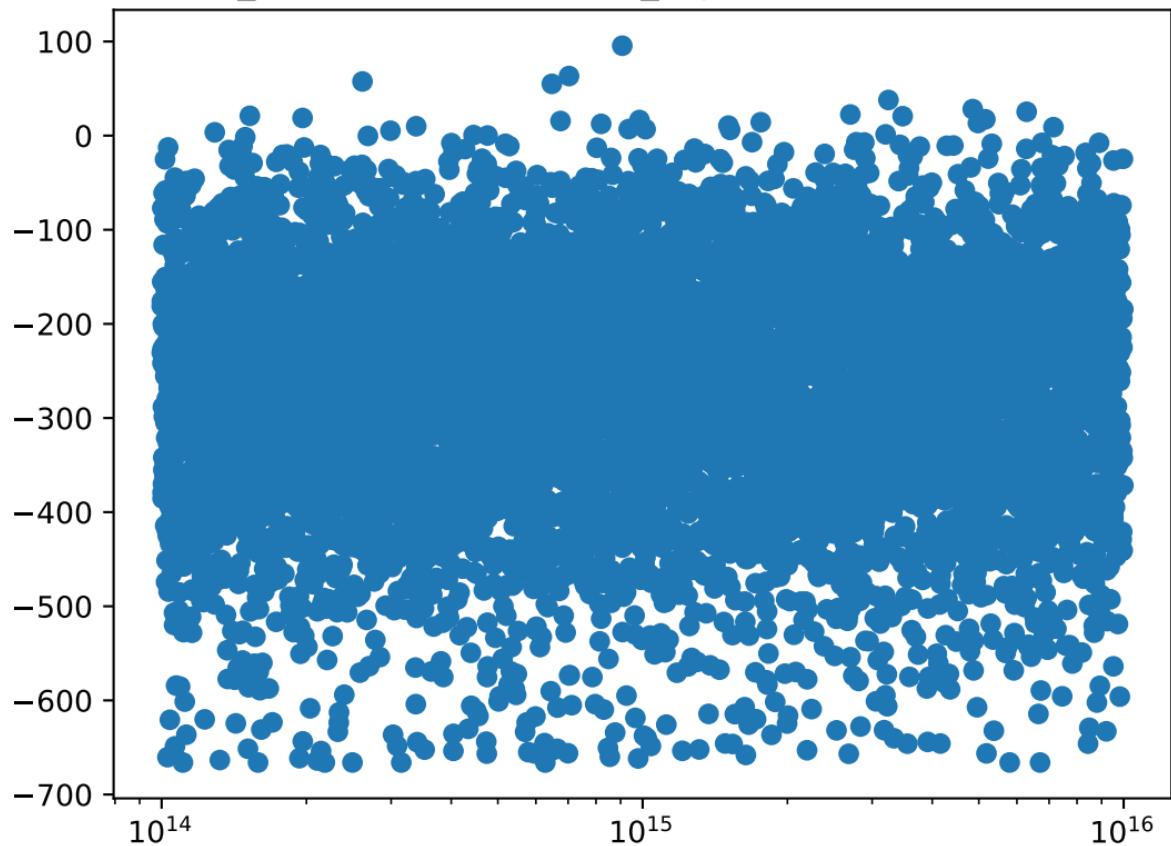
obj func low CPOX_Pt/Deutschmann2006_adjusted/16/OCX + OX <=> CO2X



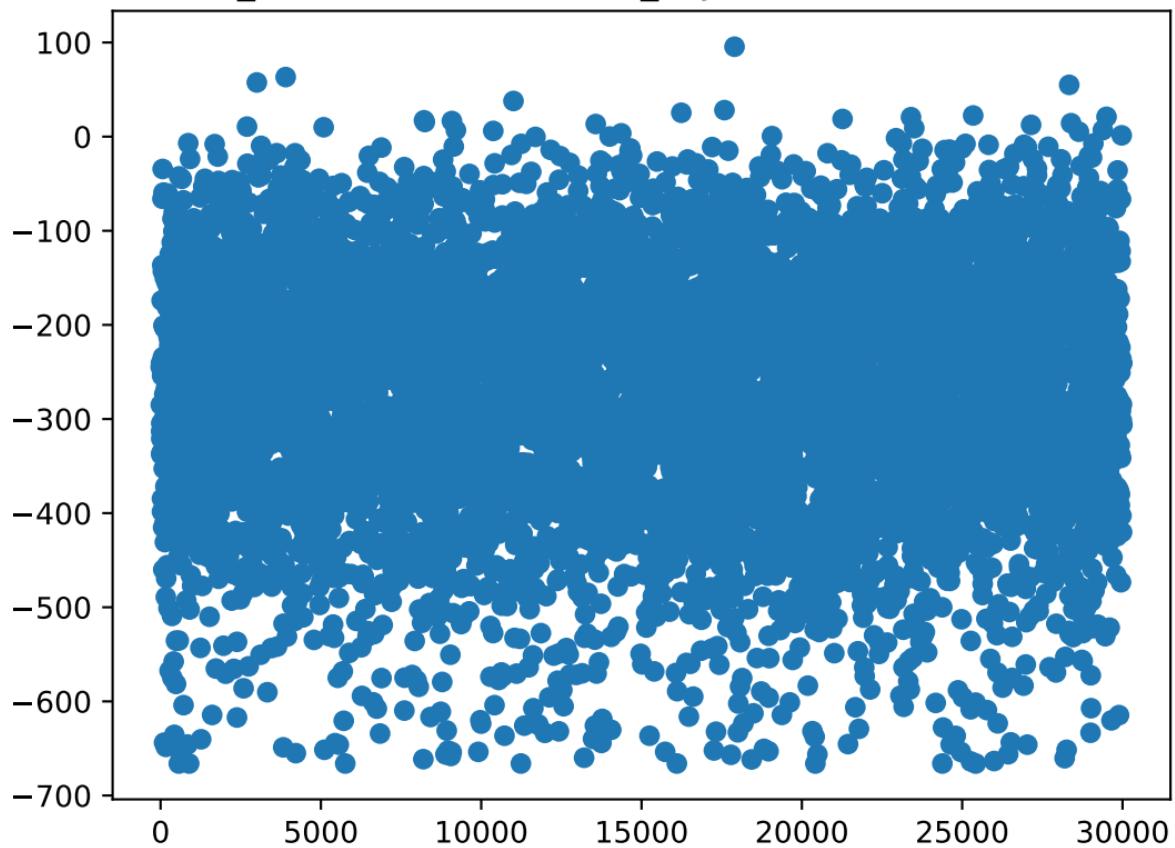
j func low CPOX_Pt/Deutschmann2006_adjusted/18/OCX + HOX <=> CO2X



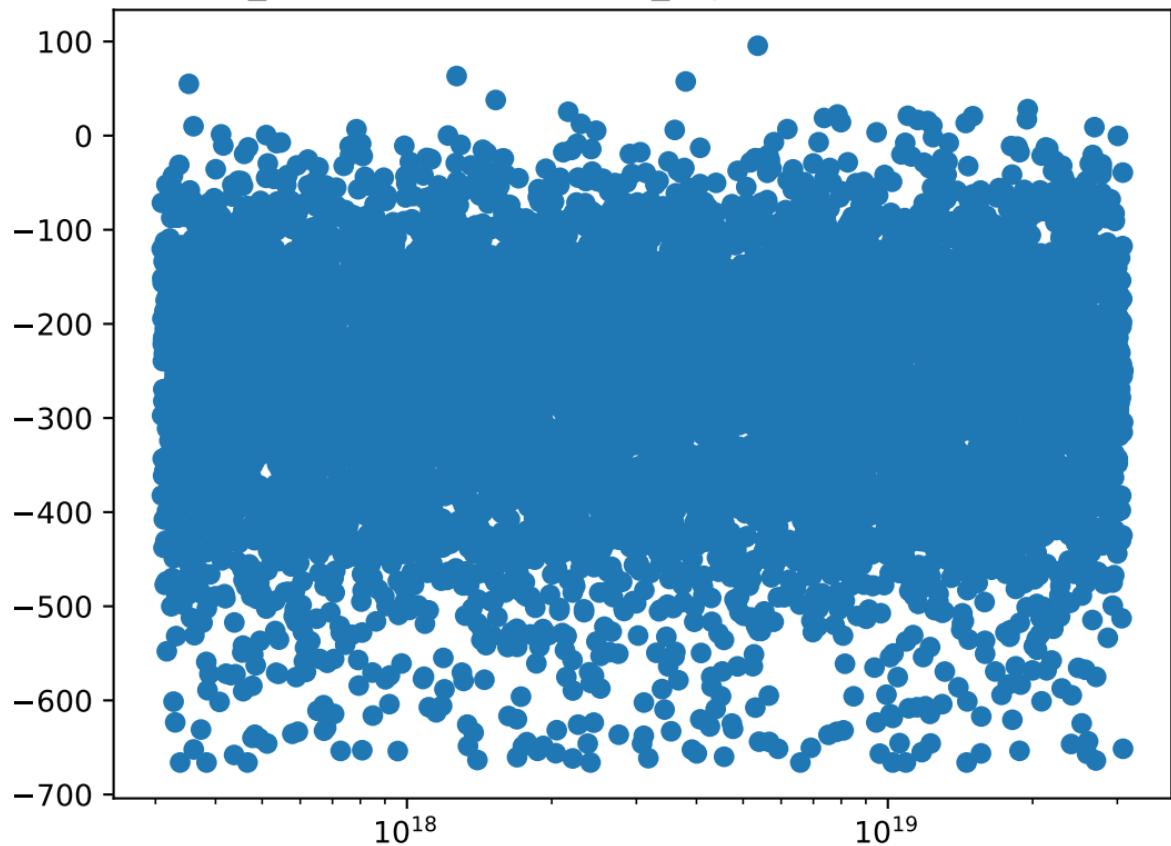
obj func low CPOX_Pt/Deutschmann2006_adjusted/18/OCX + HOX <=> CO2X



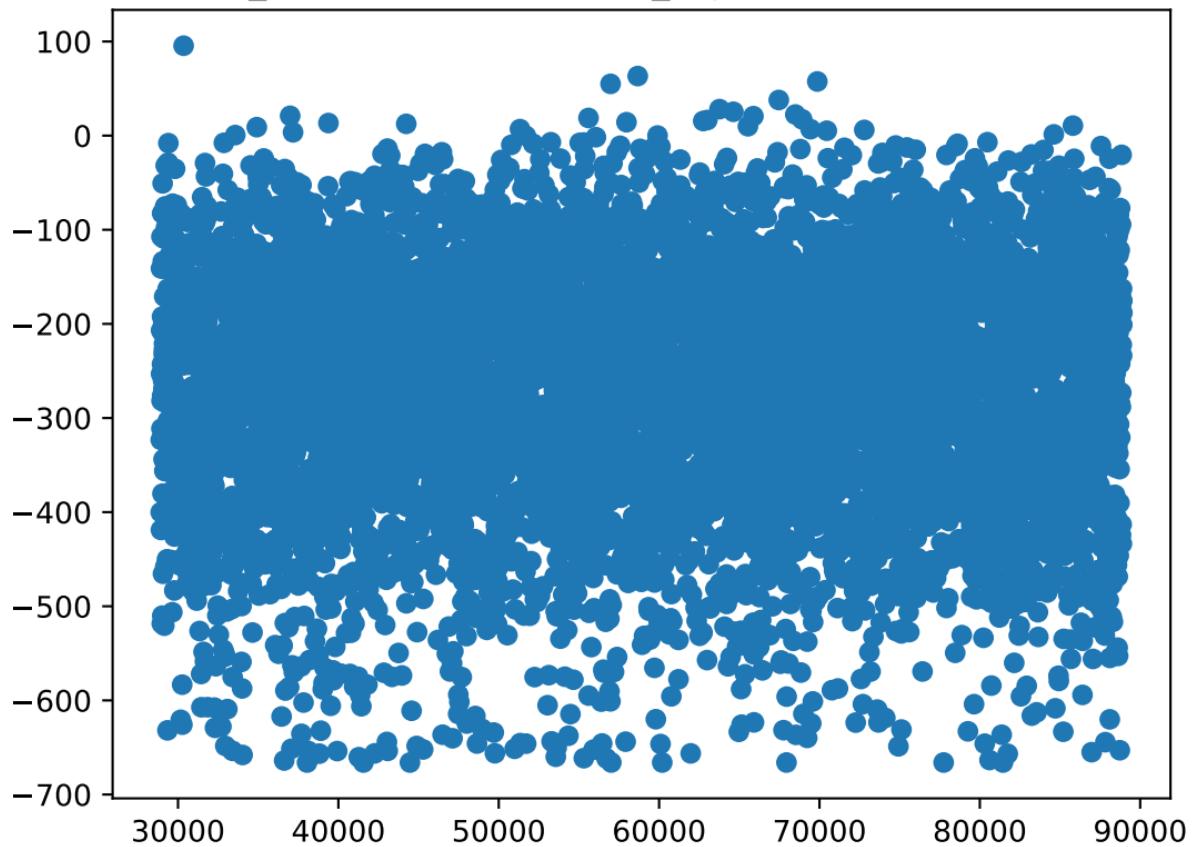
obj func low CPOX_Pt/Deutschmann2006_adjusted/21/CH₂X + HX <=> CH₃X



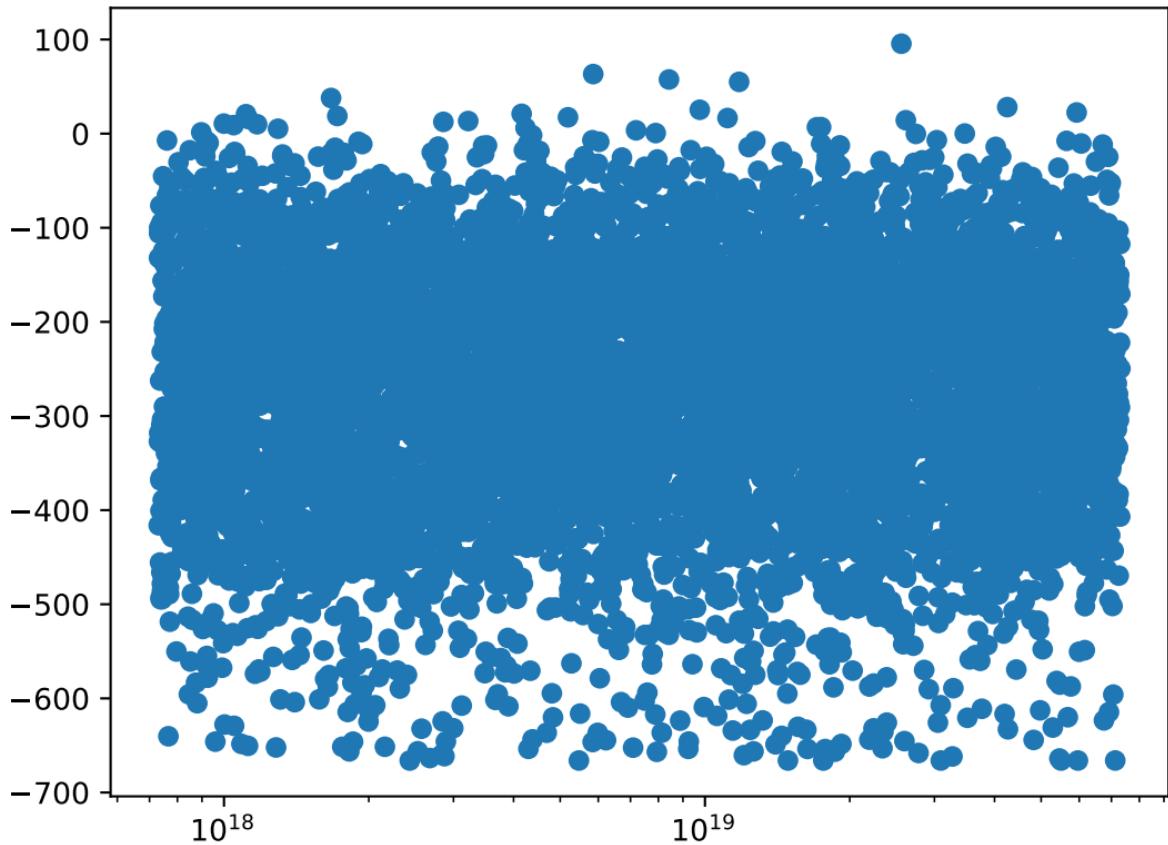
bj func low CPOX_Pt/Deutschmann2006_adjusted/21/CH₂X + HX <=> CH₃X



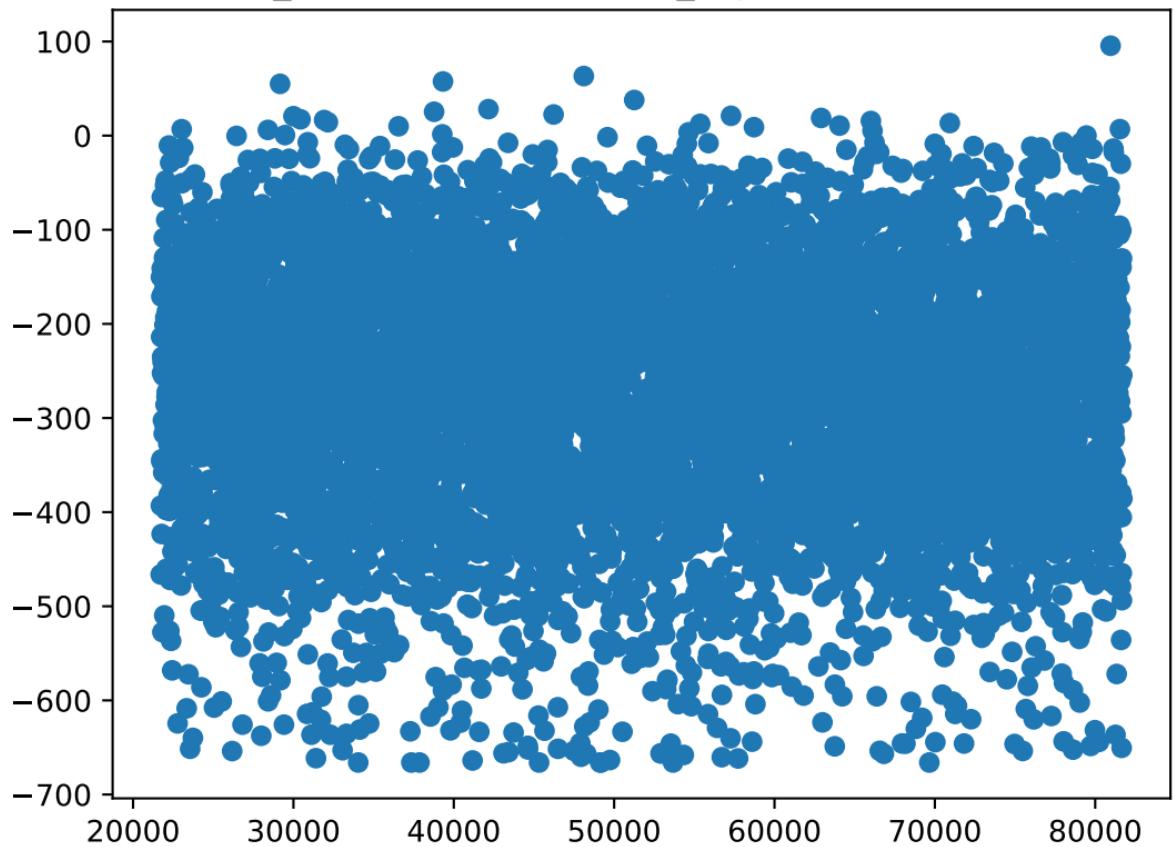
obj func low CPOX_Pt/Deutschmann2006_adjusted/22/CH2X + Pt <=> CHX +



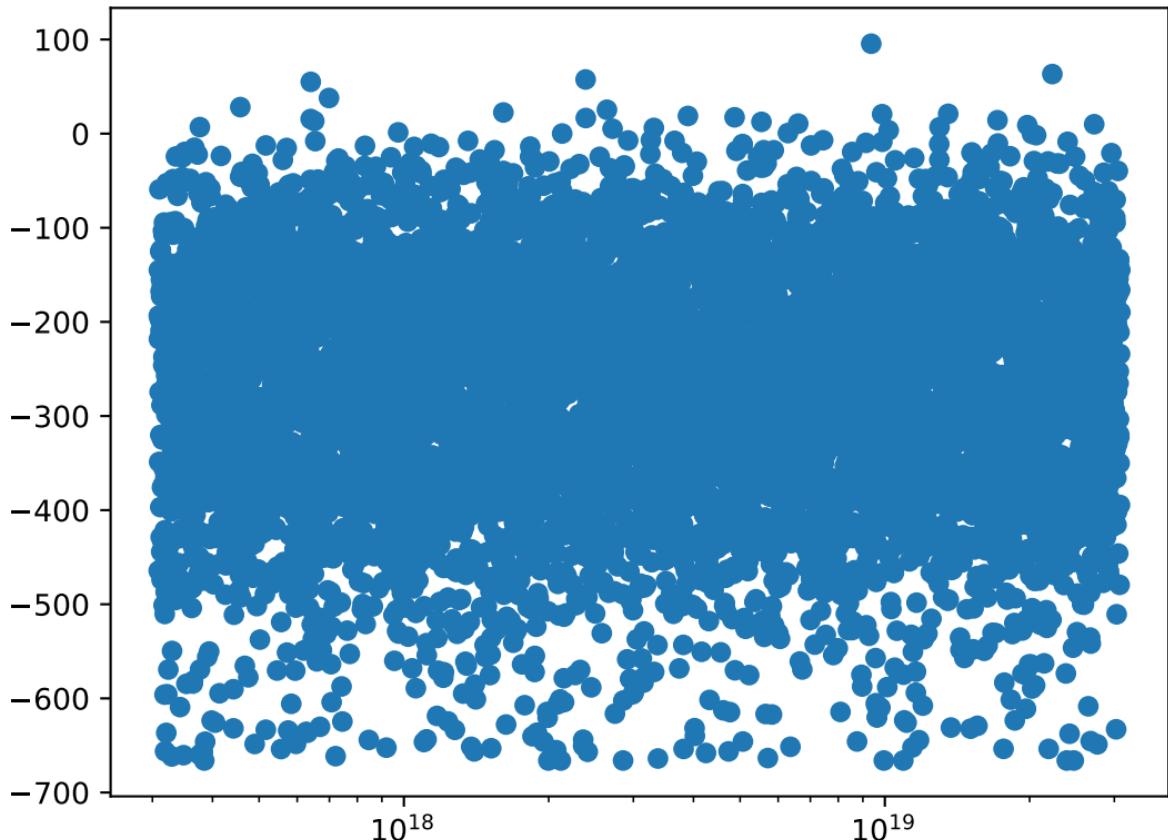
obj func low CPOX_Pt/Deutschmann2006_adjusted/22/CH2X + Pt <=> CHX +



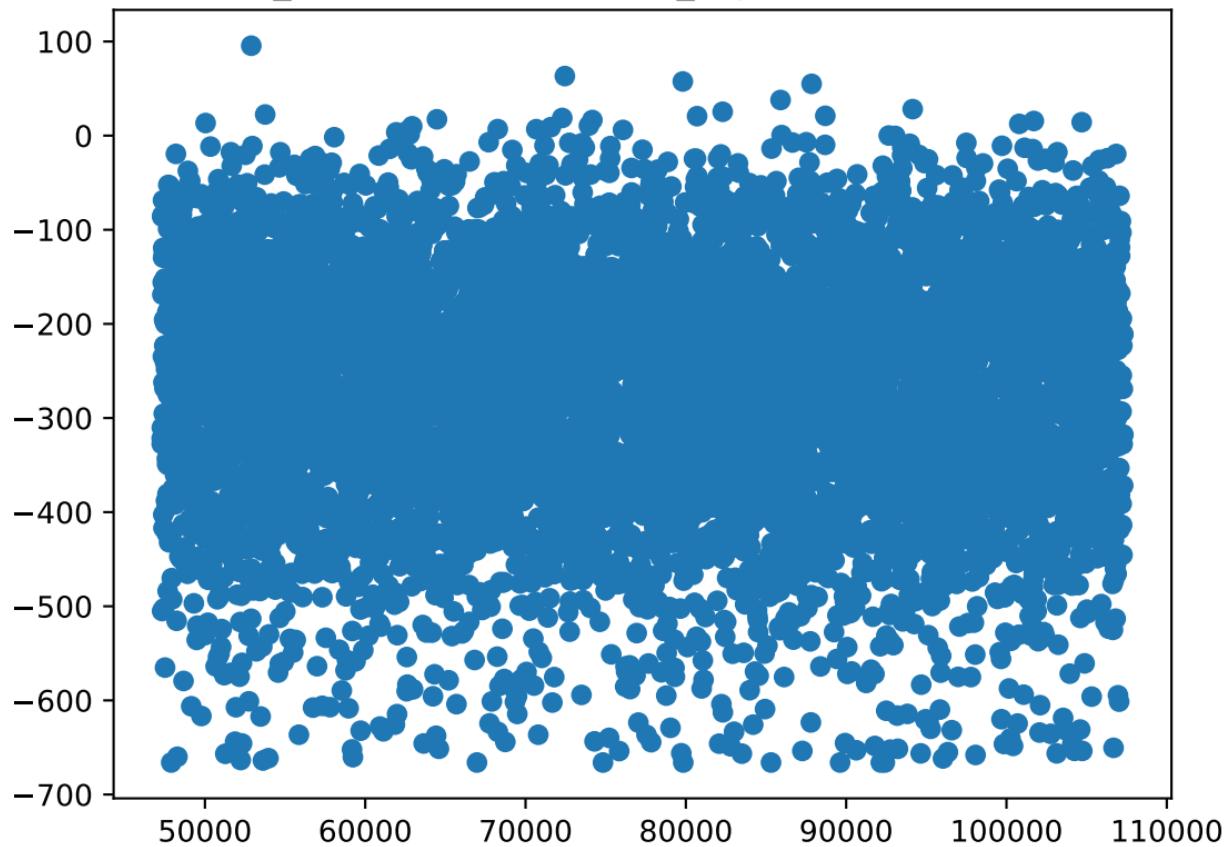
obj func low CPOX_Pt/Deutschmann2006_adjusted/24/CHX + Pt <=> CX + H



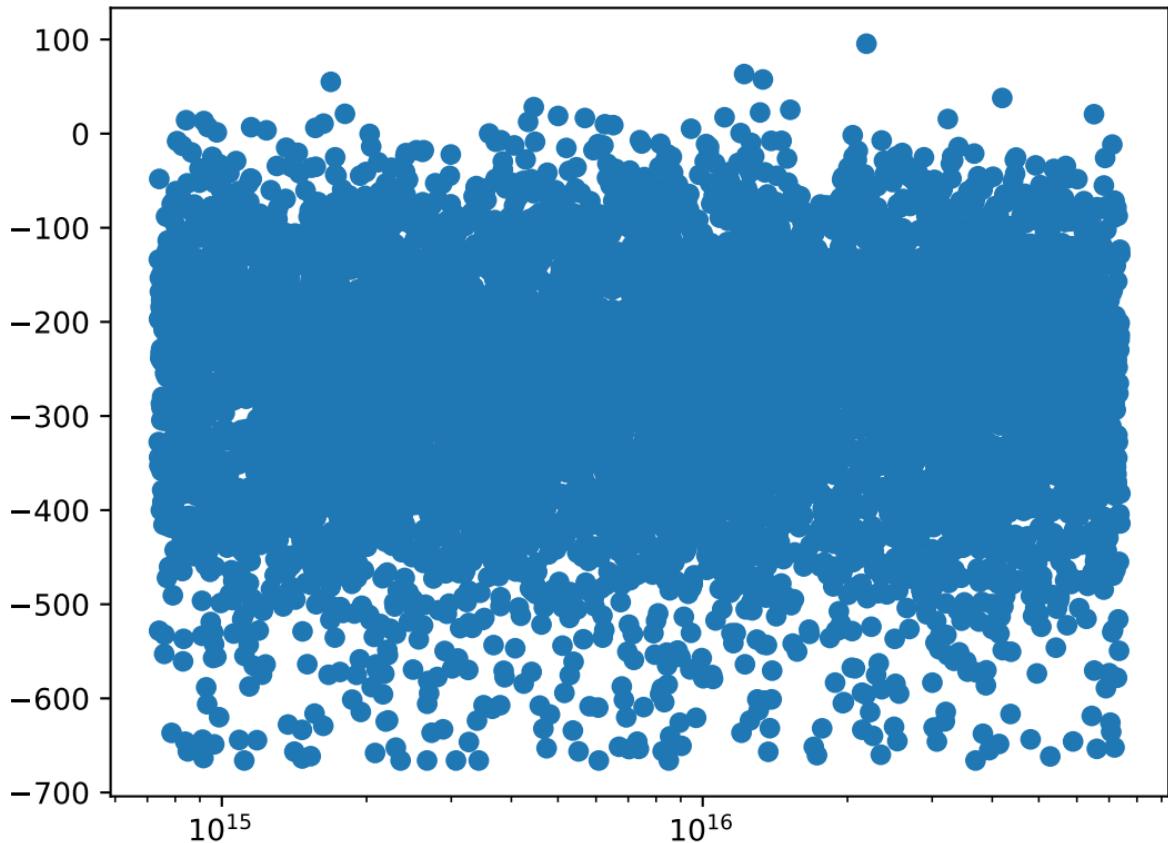
obj func low CPOX_Pt/Deutschmann2006_adjusted/24/CHX + Pt <=> CX +



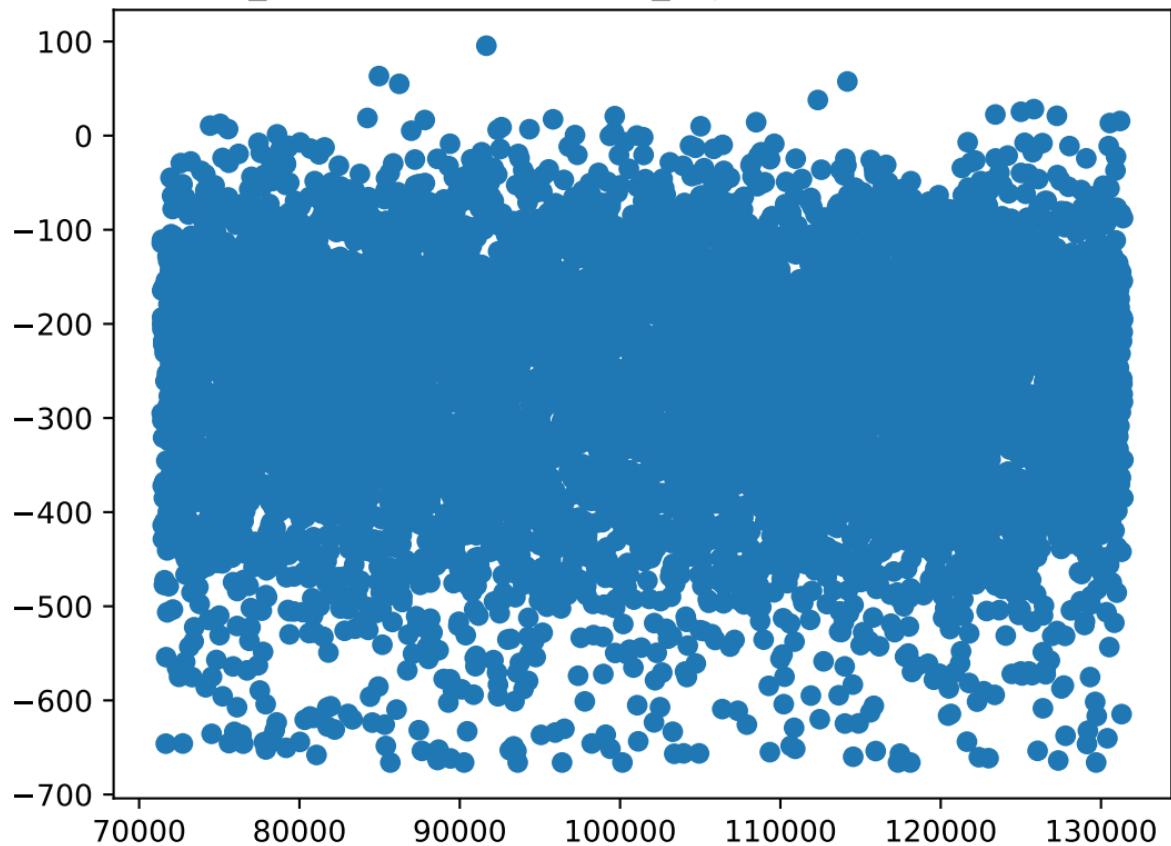
obj func low CPOX_Pt/Deutschmann2006_adjusted/27/HOX + Pt <=> HX + O



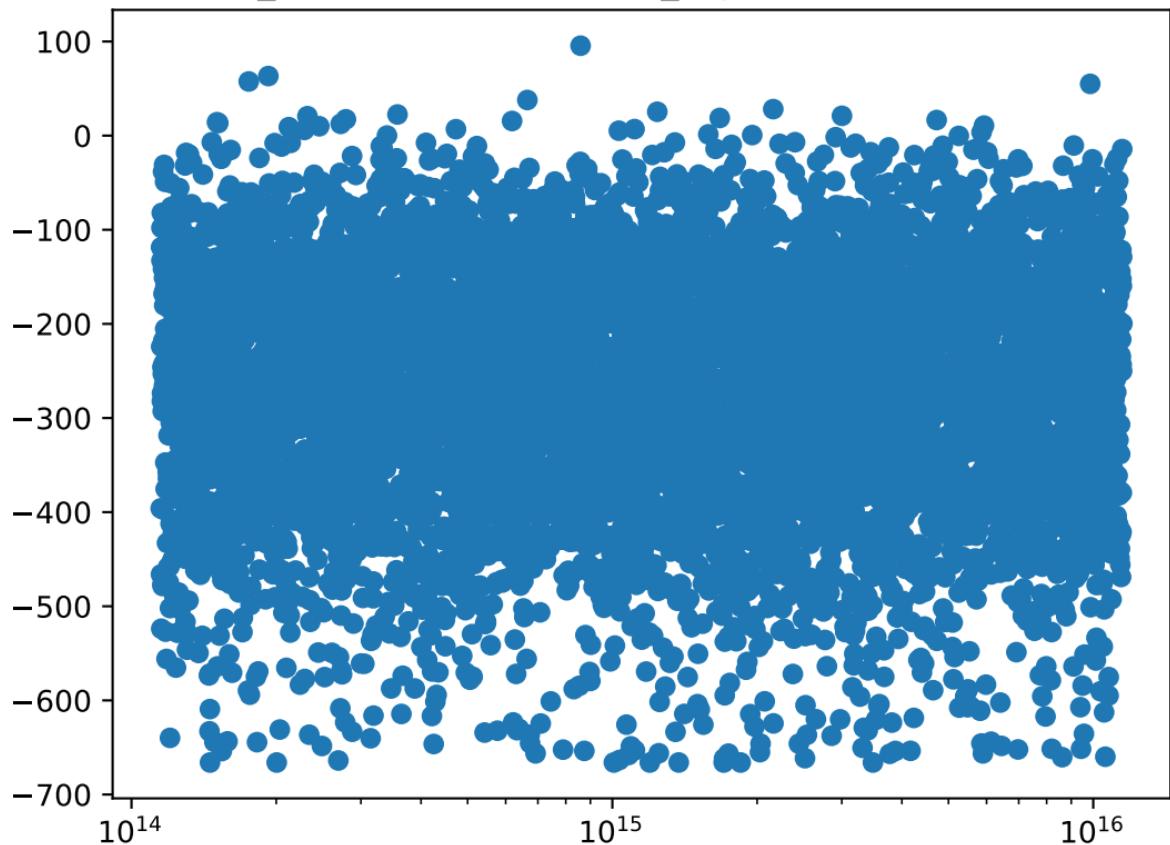
obj func low CPOX_Pt/Deutschmann2006_adjusted/27/HOX + Pt <=> HX +



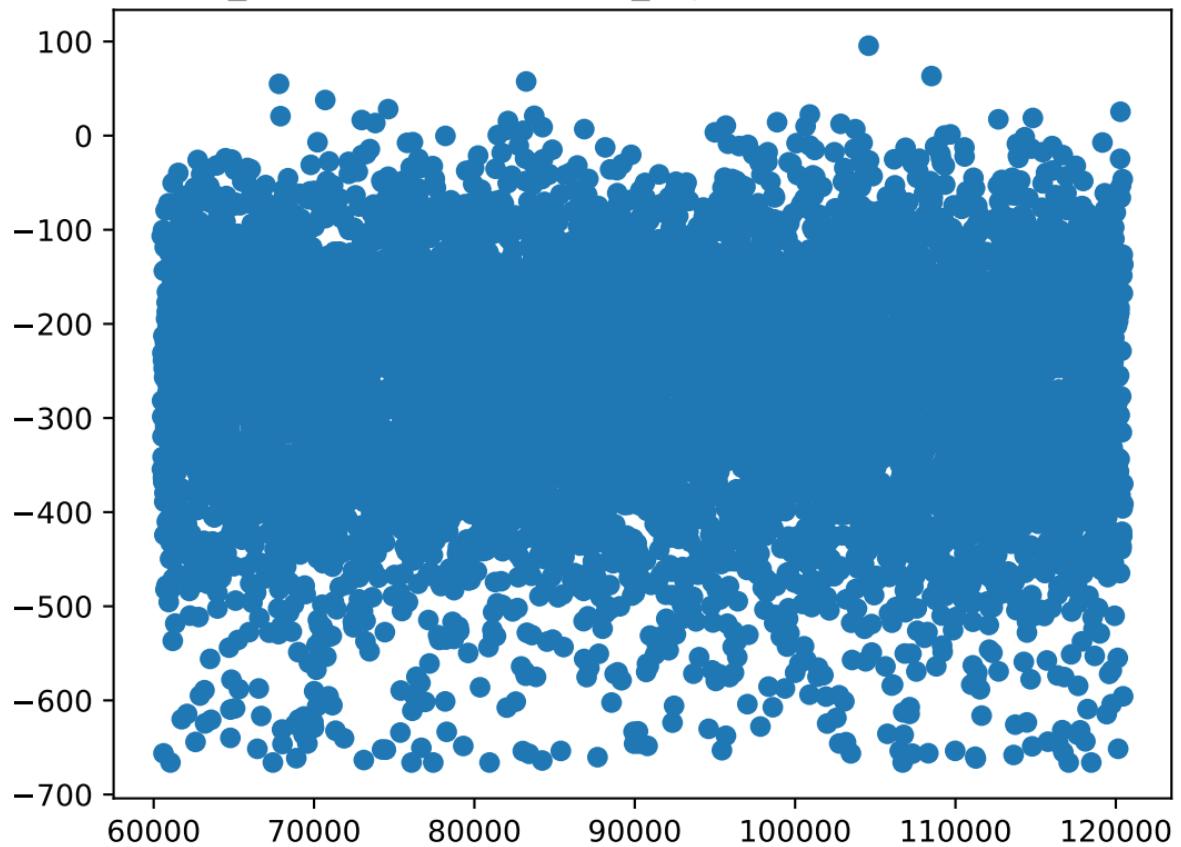
bj func low CPOX_Pt/Deutschmann2006_adjusted/28/H2OX + Pt <=> HX + H



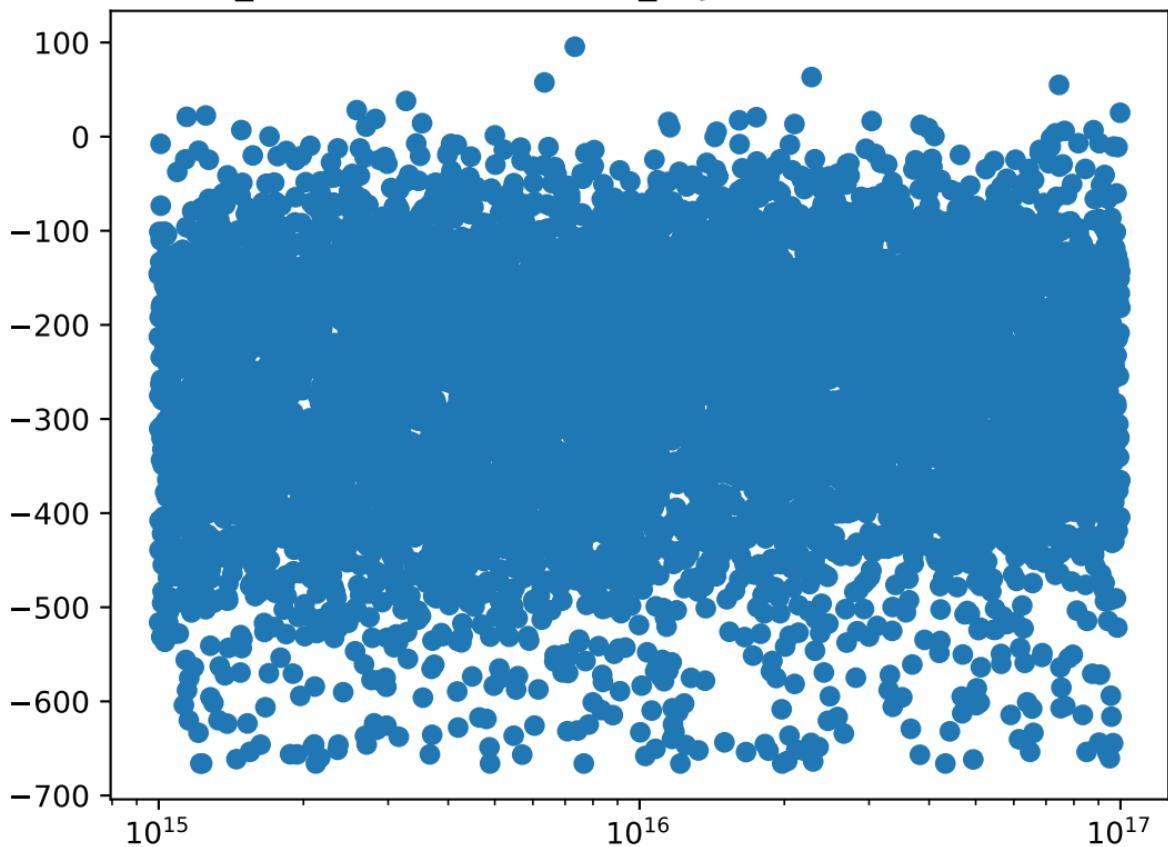
obj func low CPOX_Pt/Deutschmann2006_adjusted/28/H2OX + Pt <=> HX +



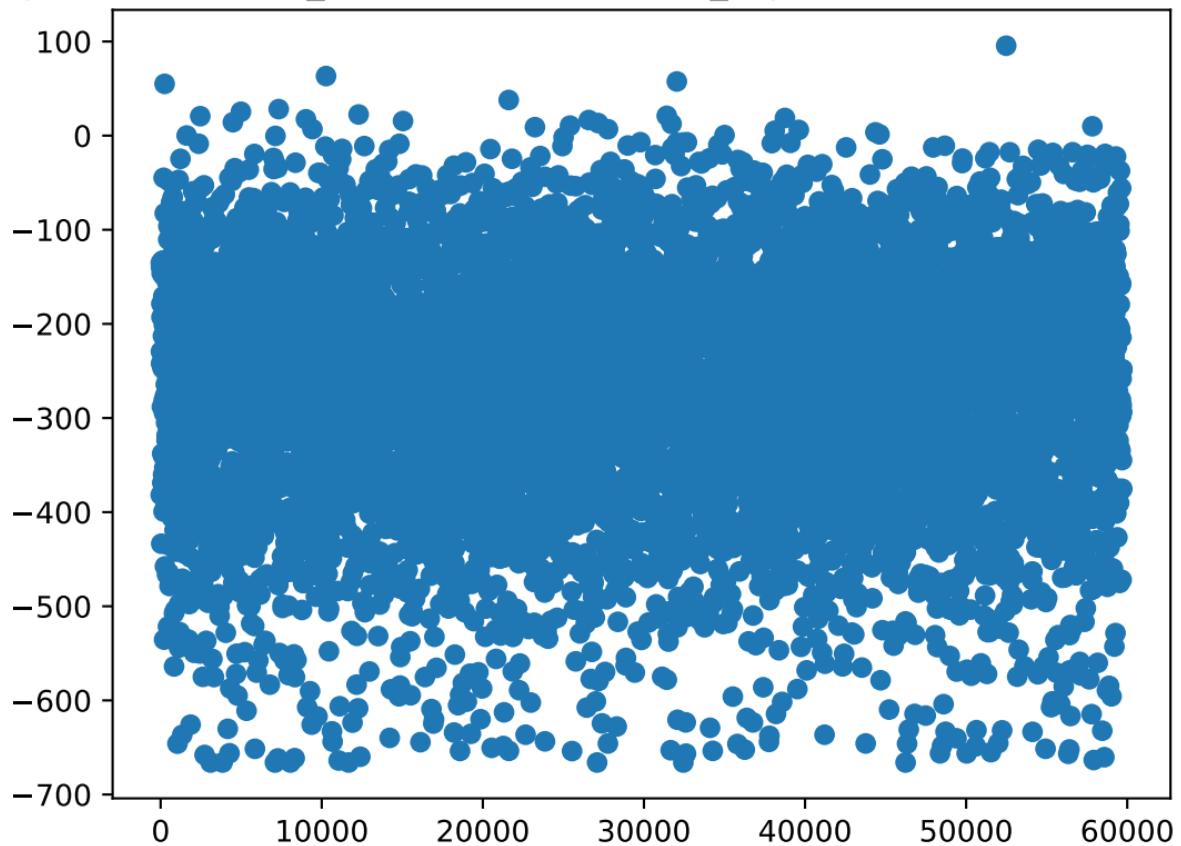
j func low CPOX_Pt/Deutschmann2006_adjusted/30/H2OX + OX <=> HOX +



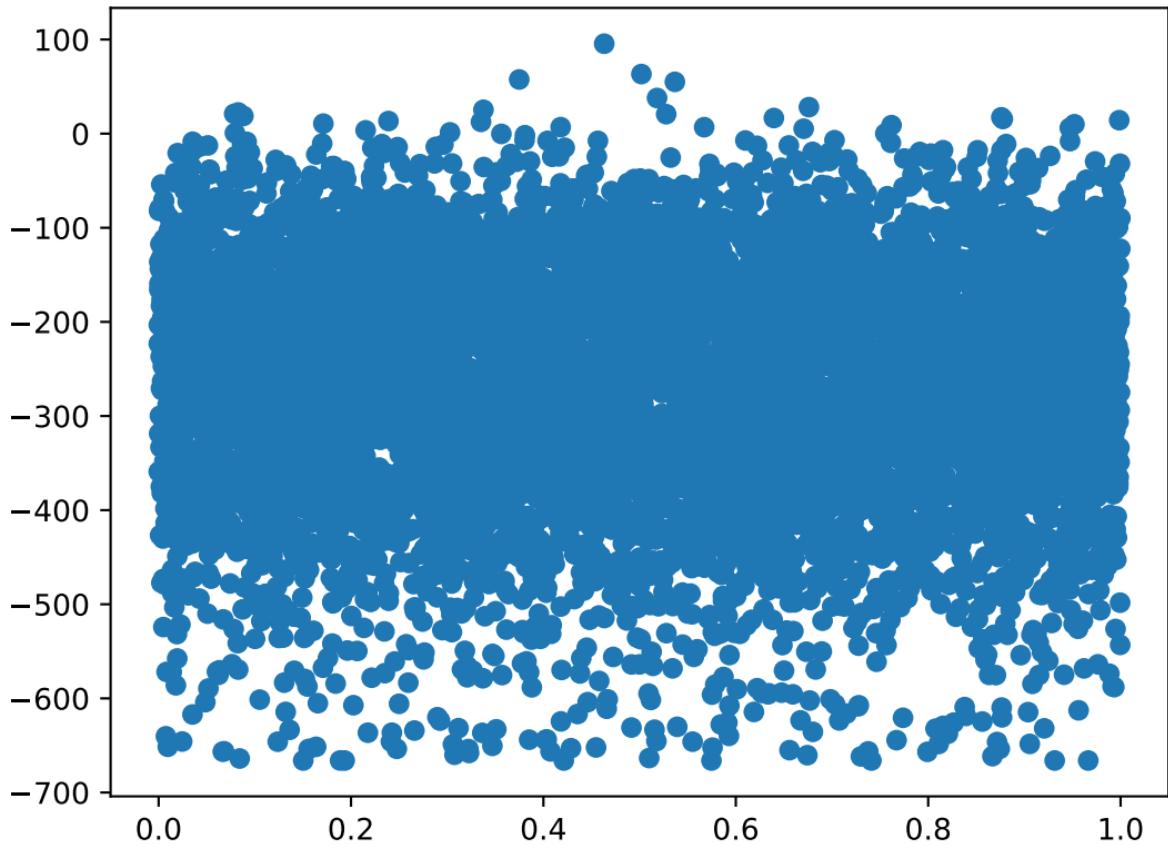
obj func low CPOX_Pt/Deutschmann2006_adjusted/30/H2OX + OX <=> HOX +



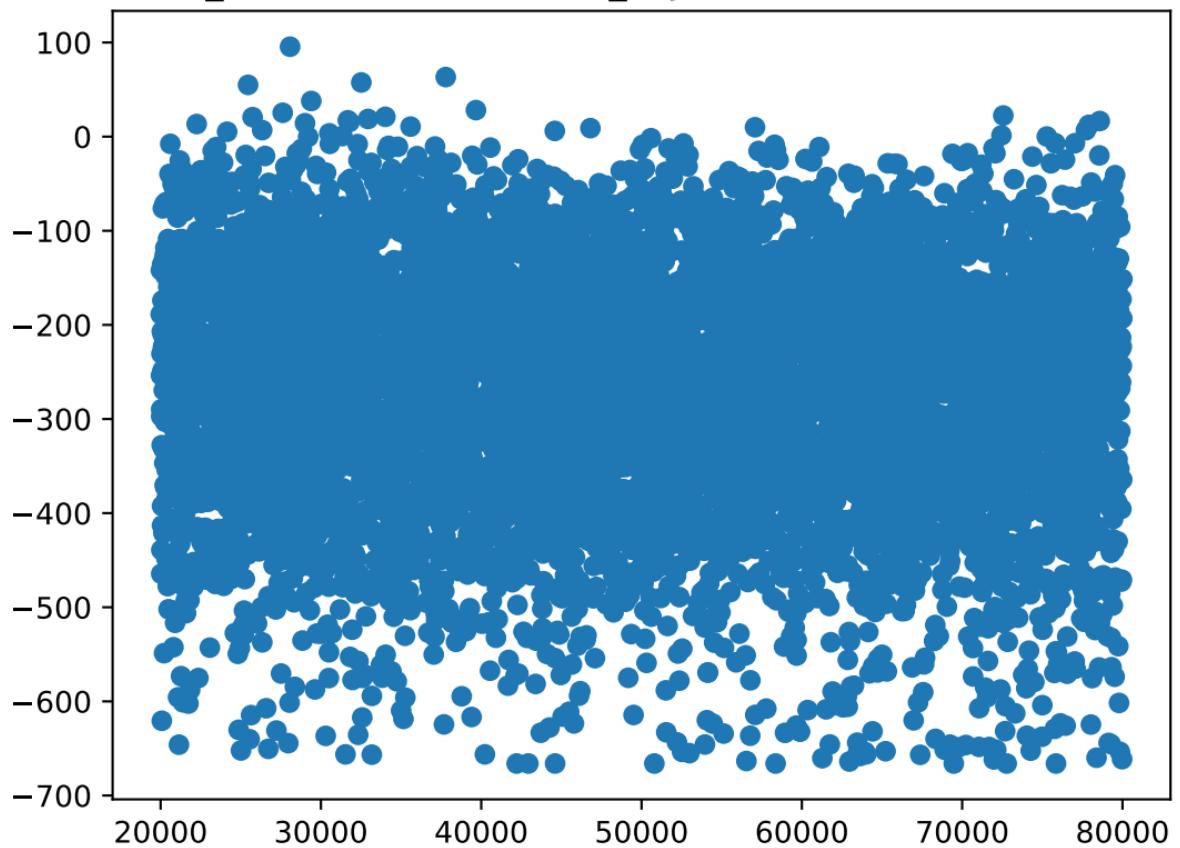
og obj func low CPOX_Pt/Deutschmann2006_adjusted/31/H2 + CX <=> CH2X



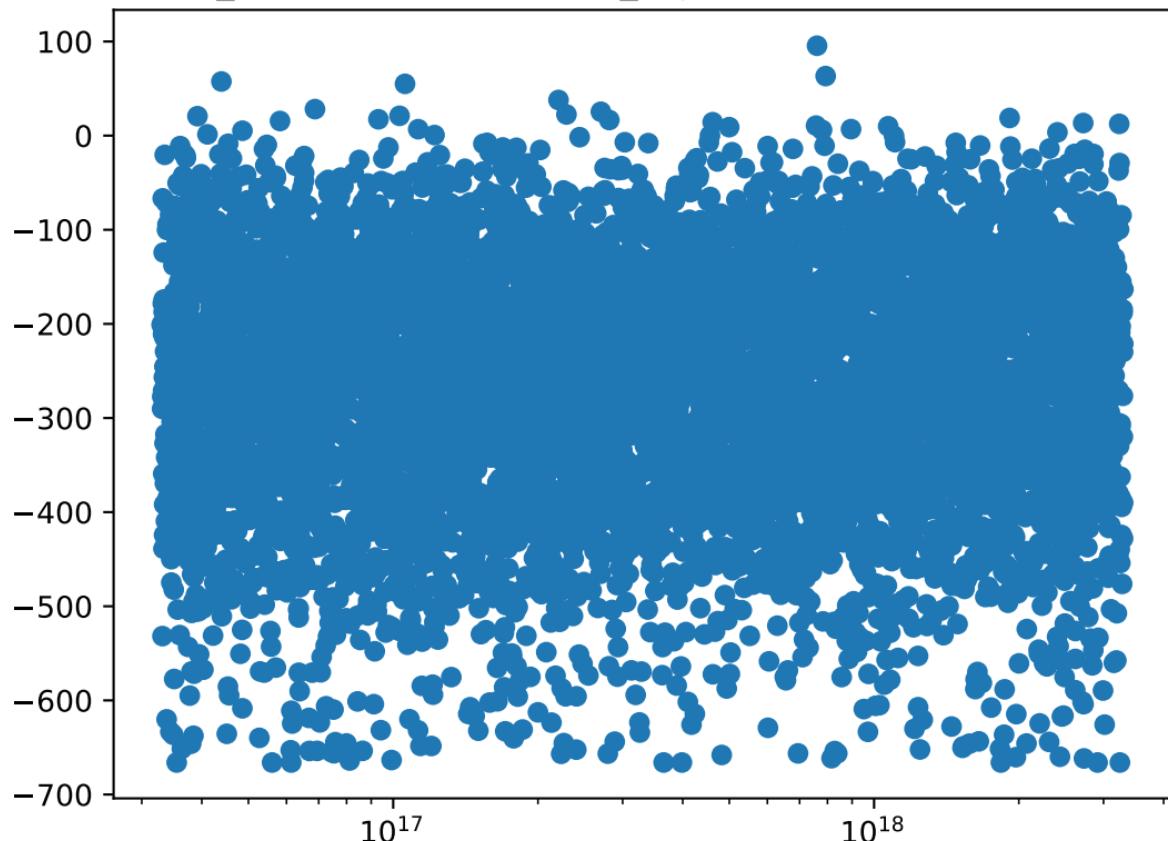
log obj func low CPOX_Pt/Deutschmann2006_adjusted/31/H2 + CX <=> CH2



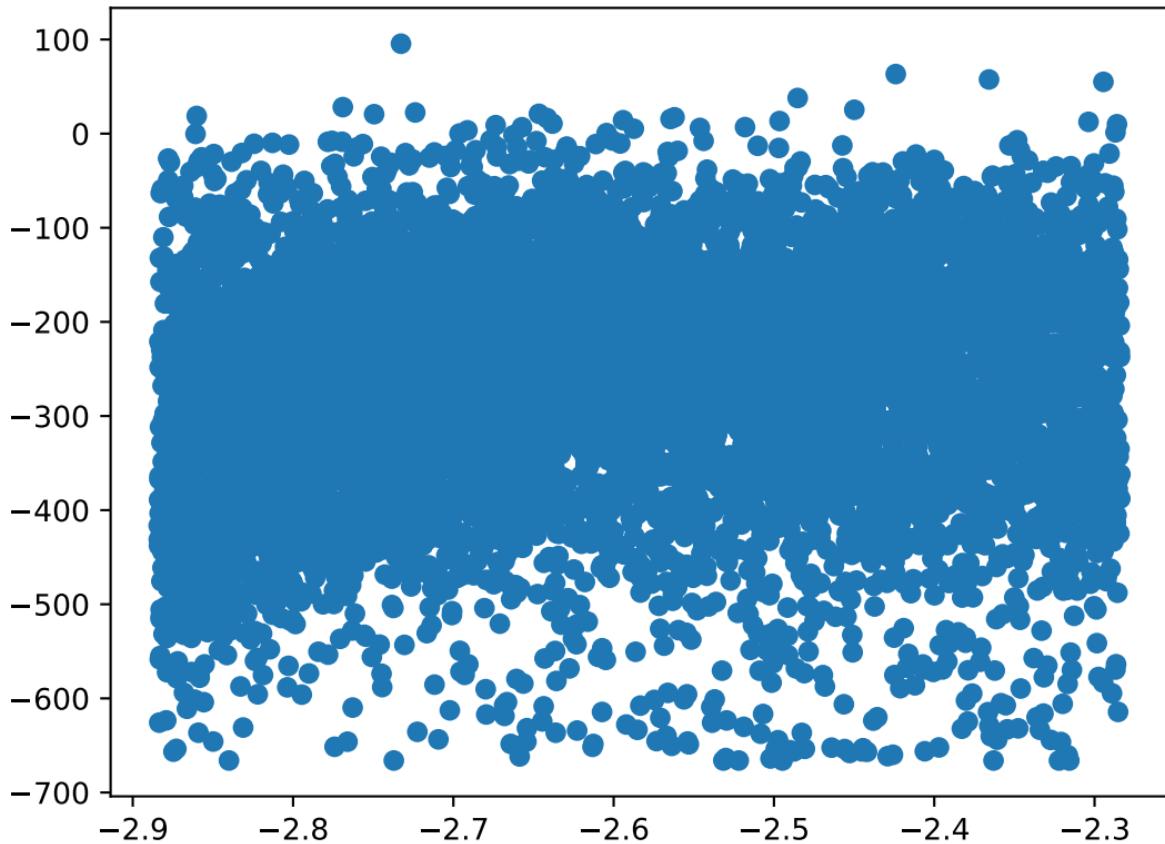
func low CPOX_Pt/Deutschmann2006_adjusted/34/CH₃X + HX <=> CH₄ + P



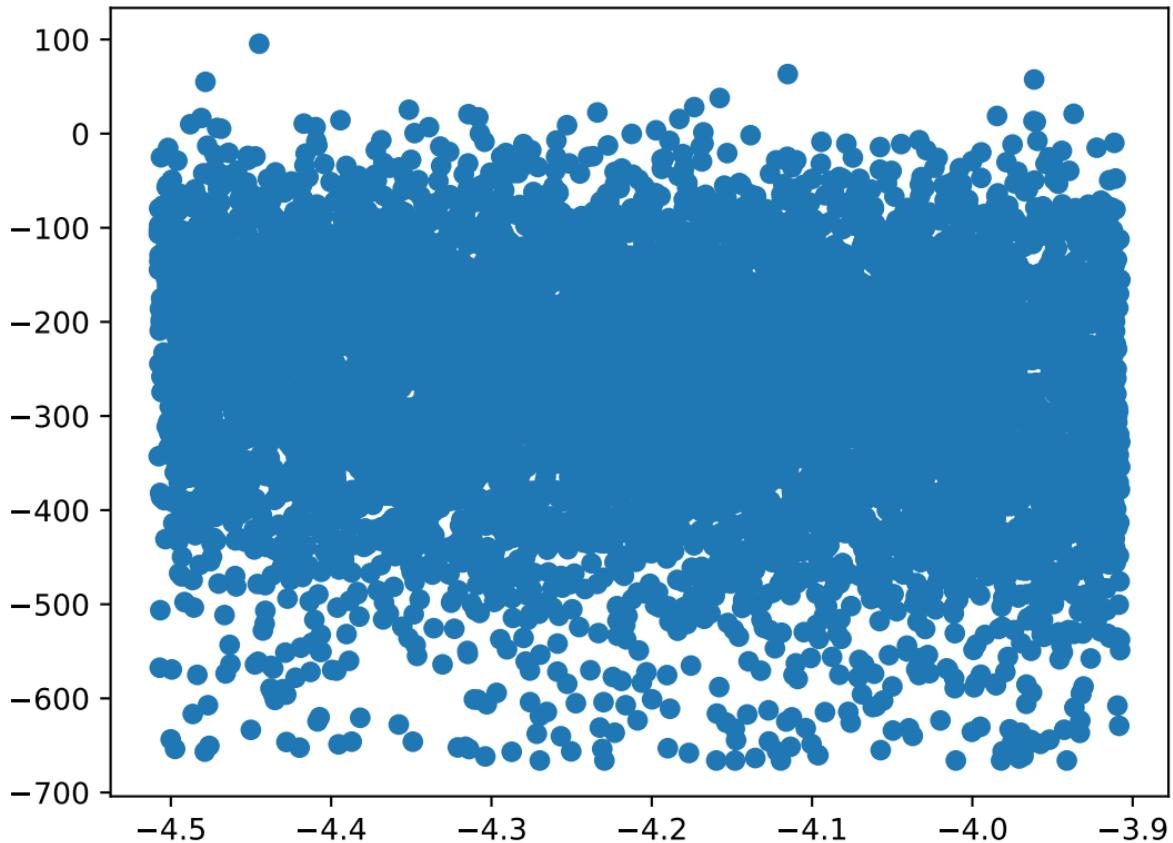
func low CPOX_Pt/Deutschmann2006_adjusted/34/CH3X + HX <=> CH4 + I



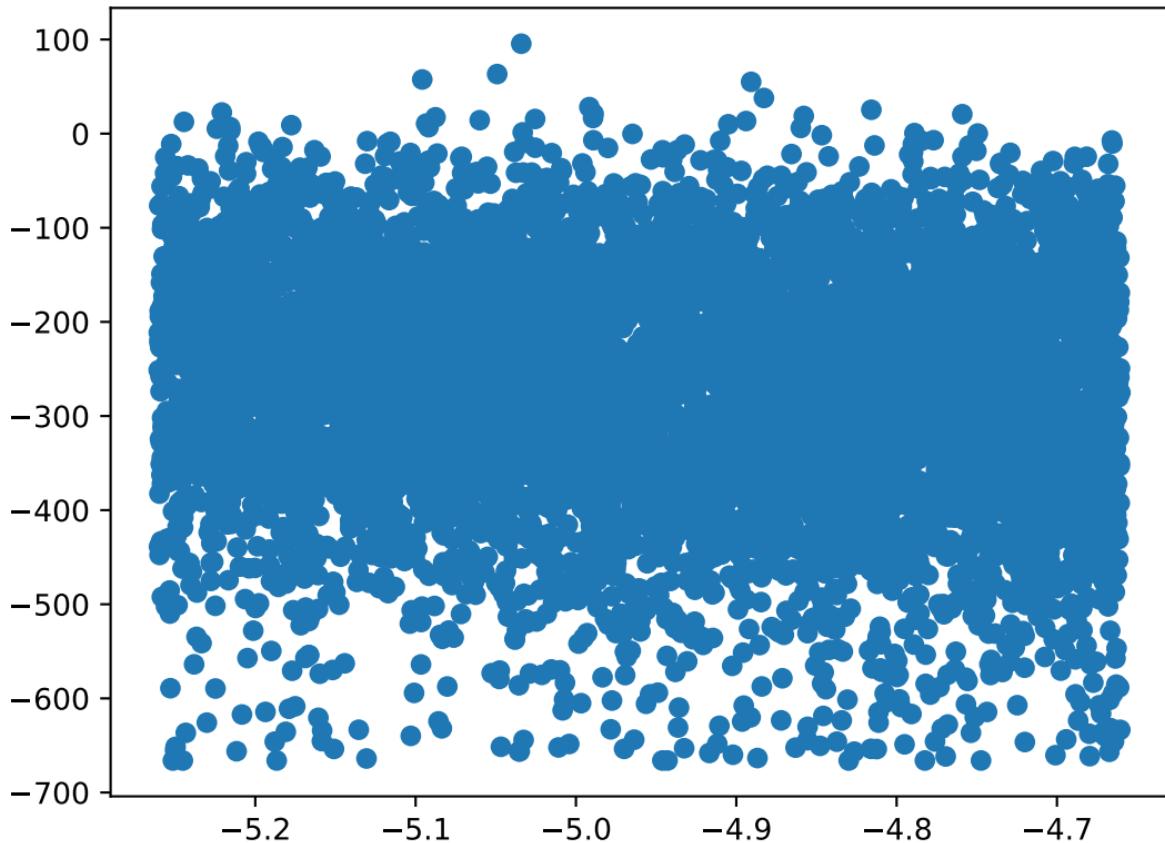
log obj func low H



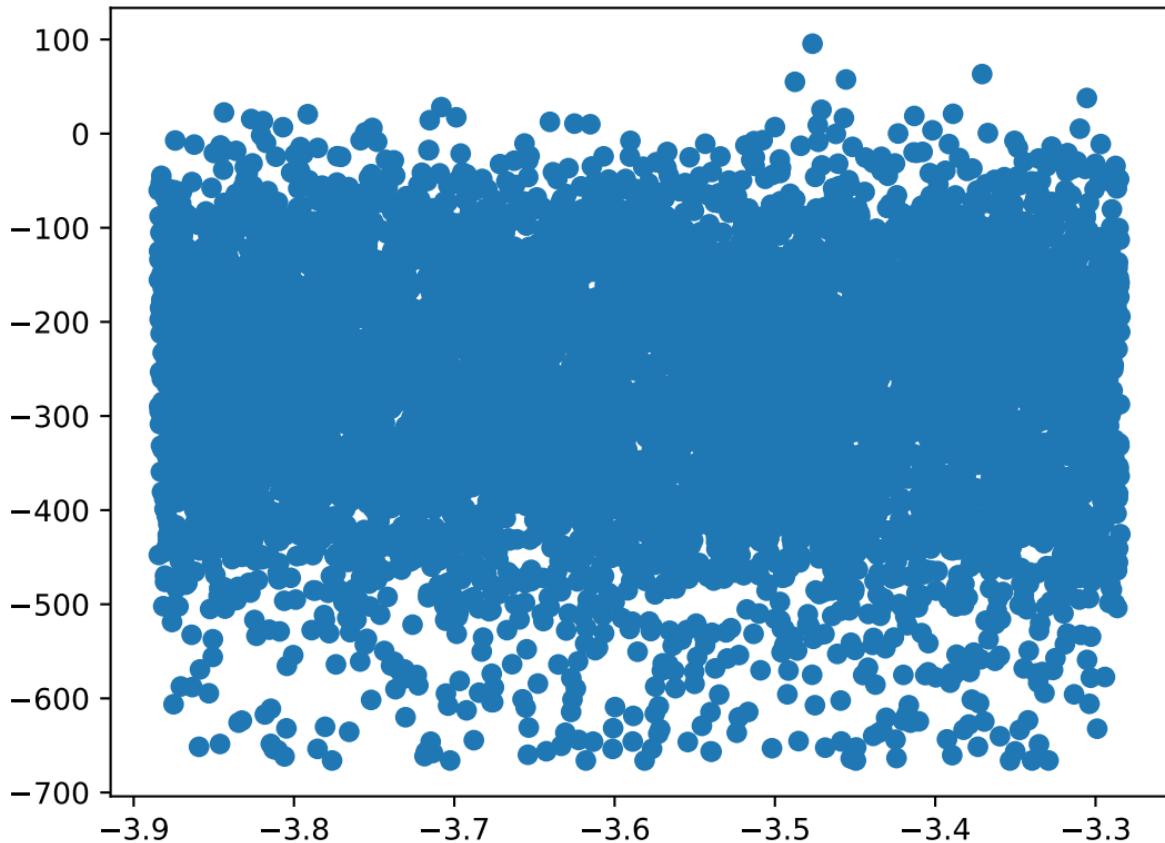
log obj func low O



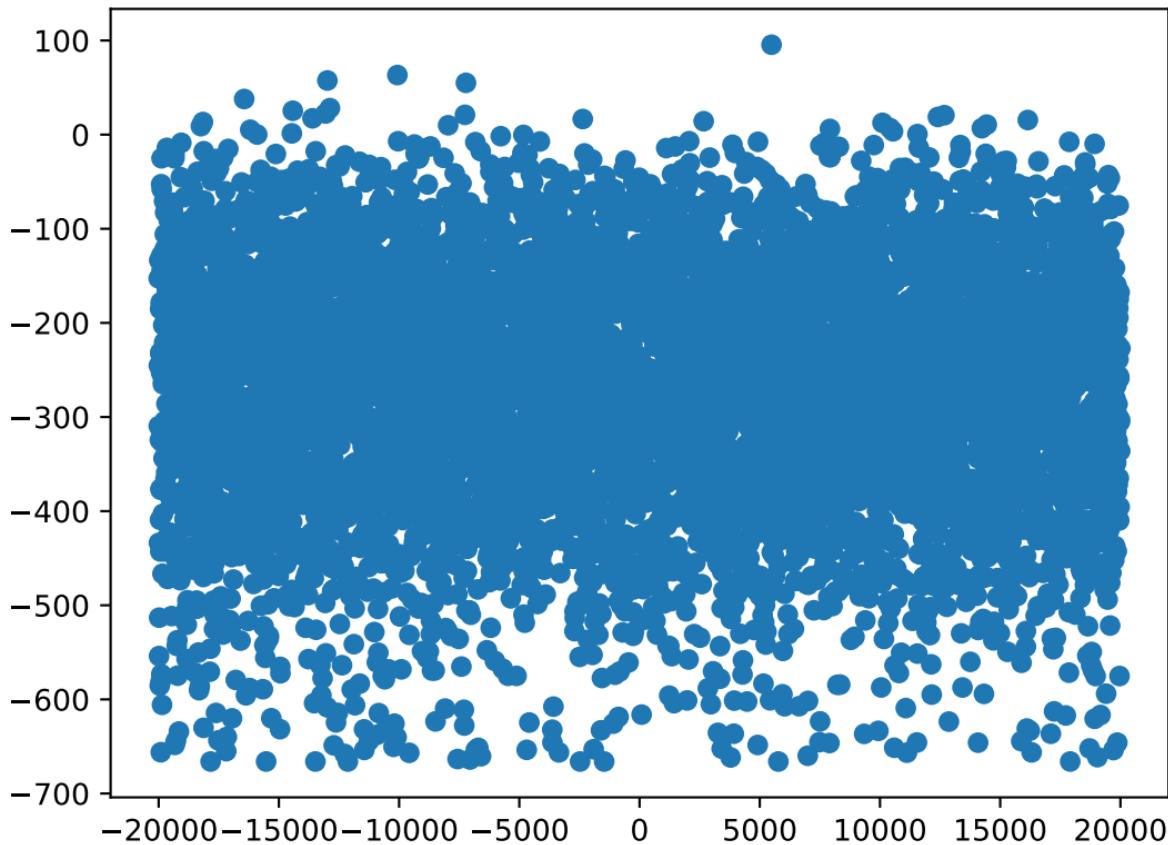
log obj func low C



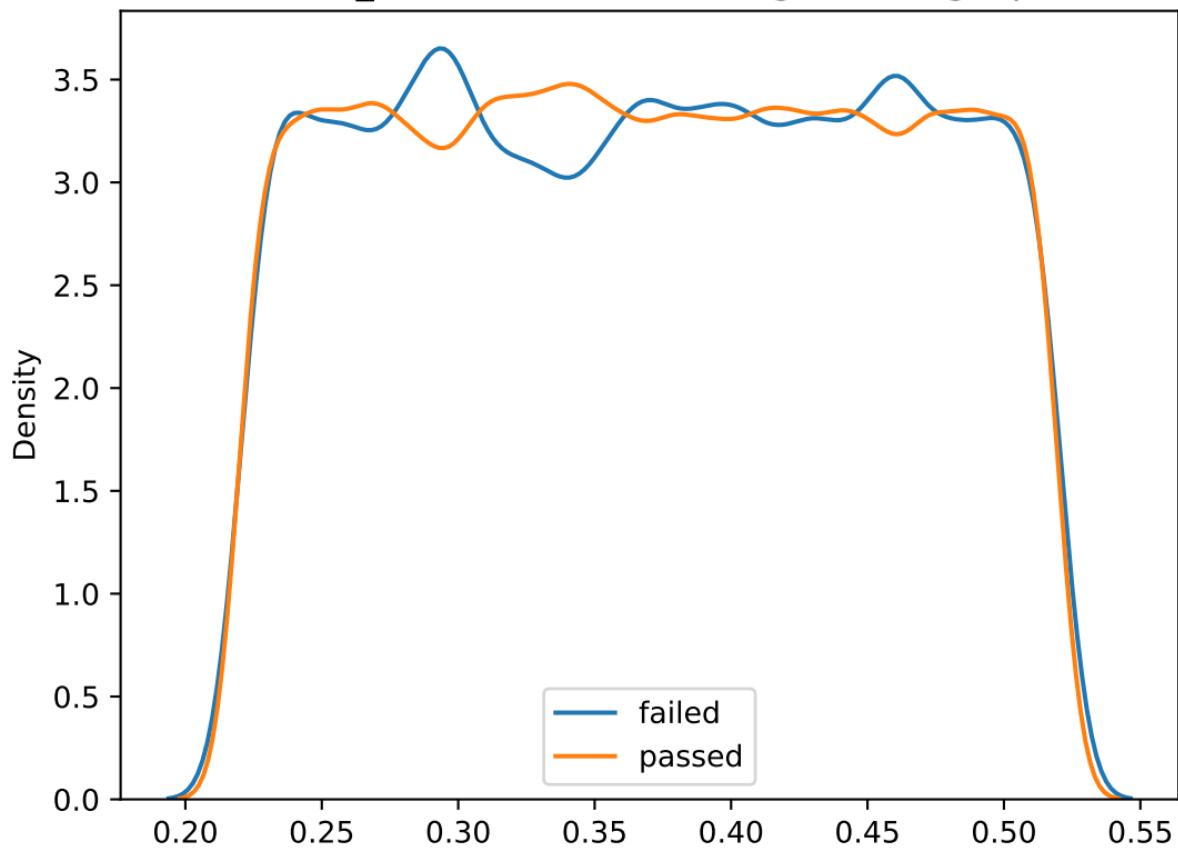
log obj func low N

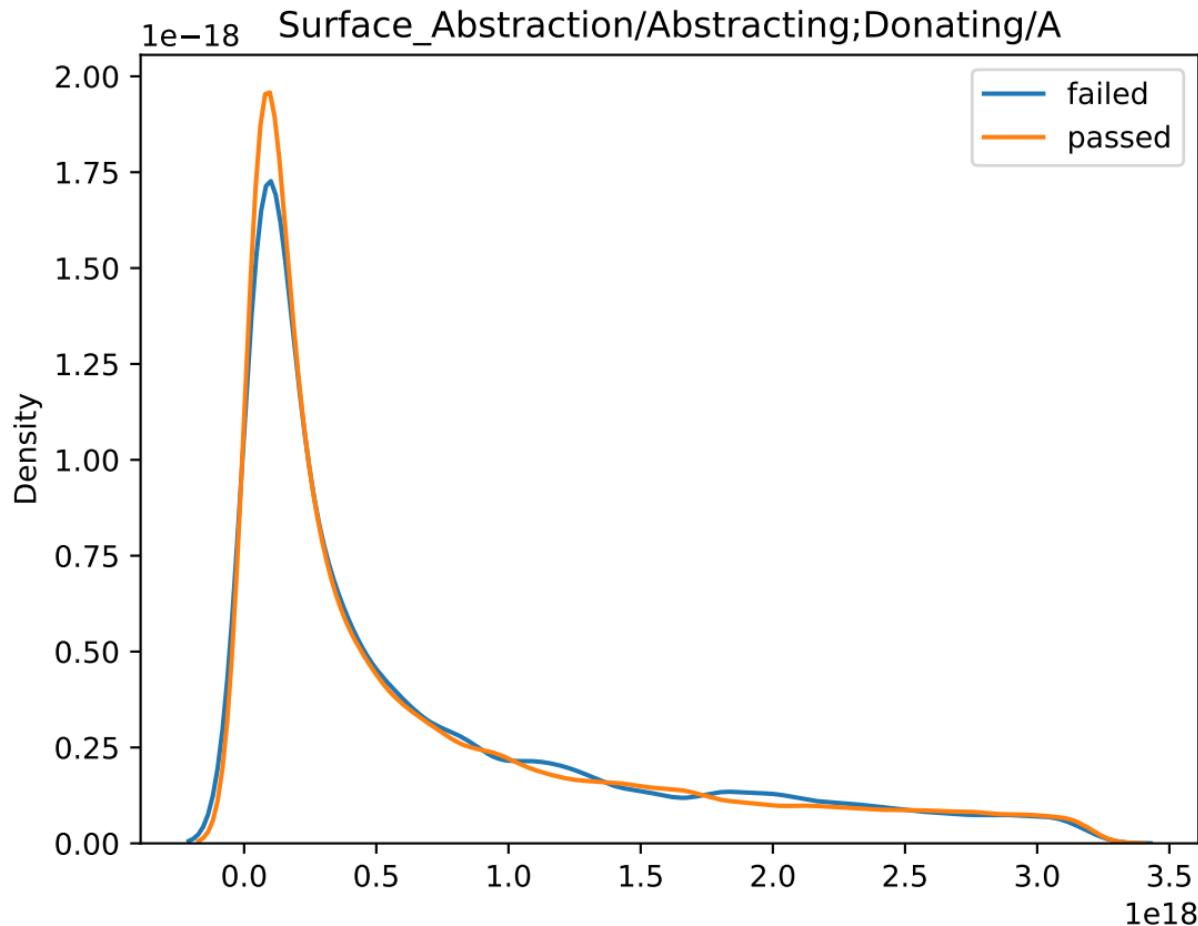


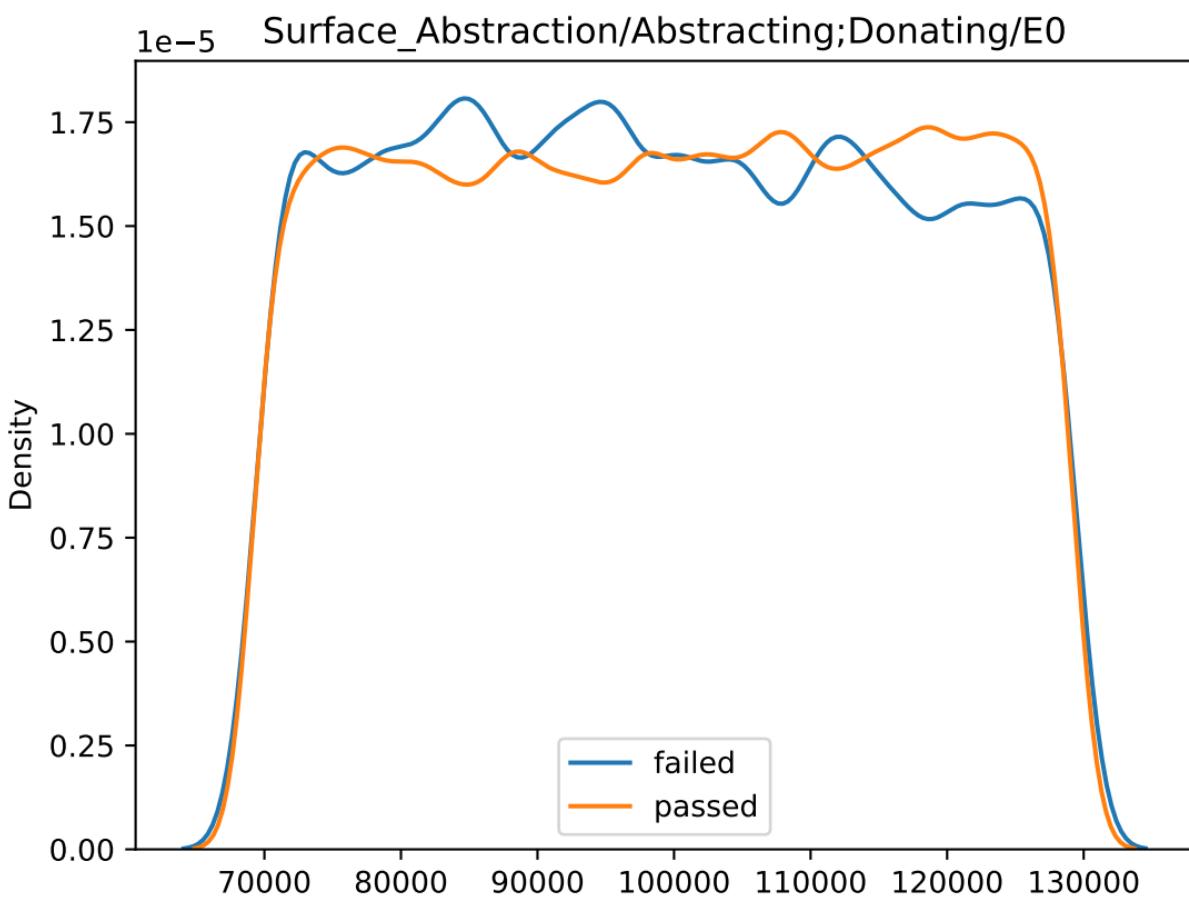
log obj func low Vdw



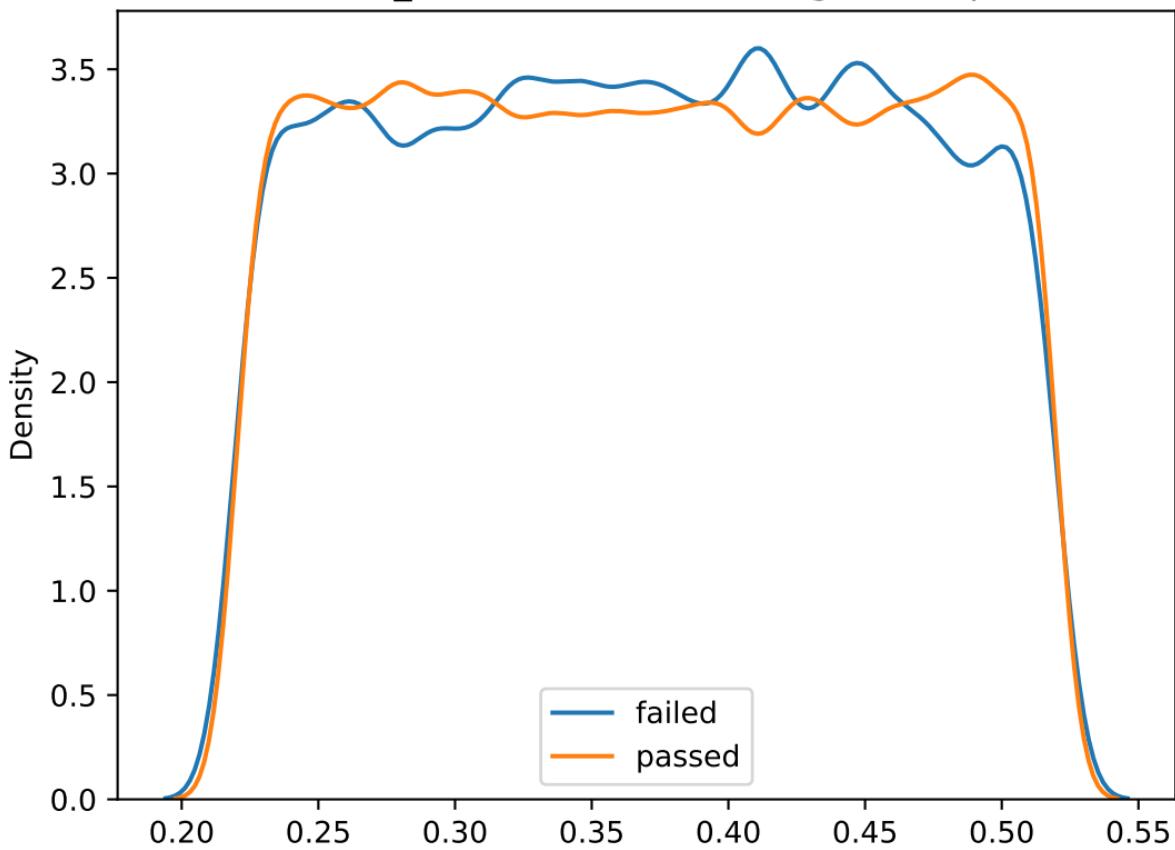
Surface_Abstraction/Abstracting;Donating/alpha

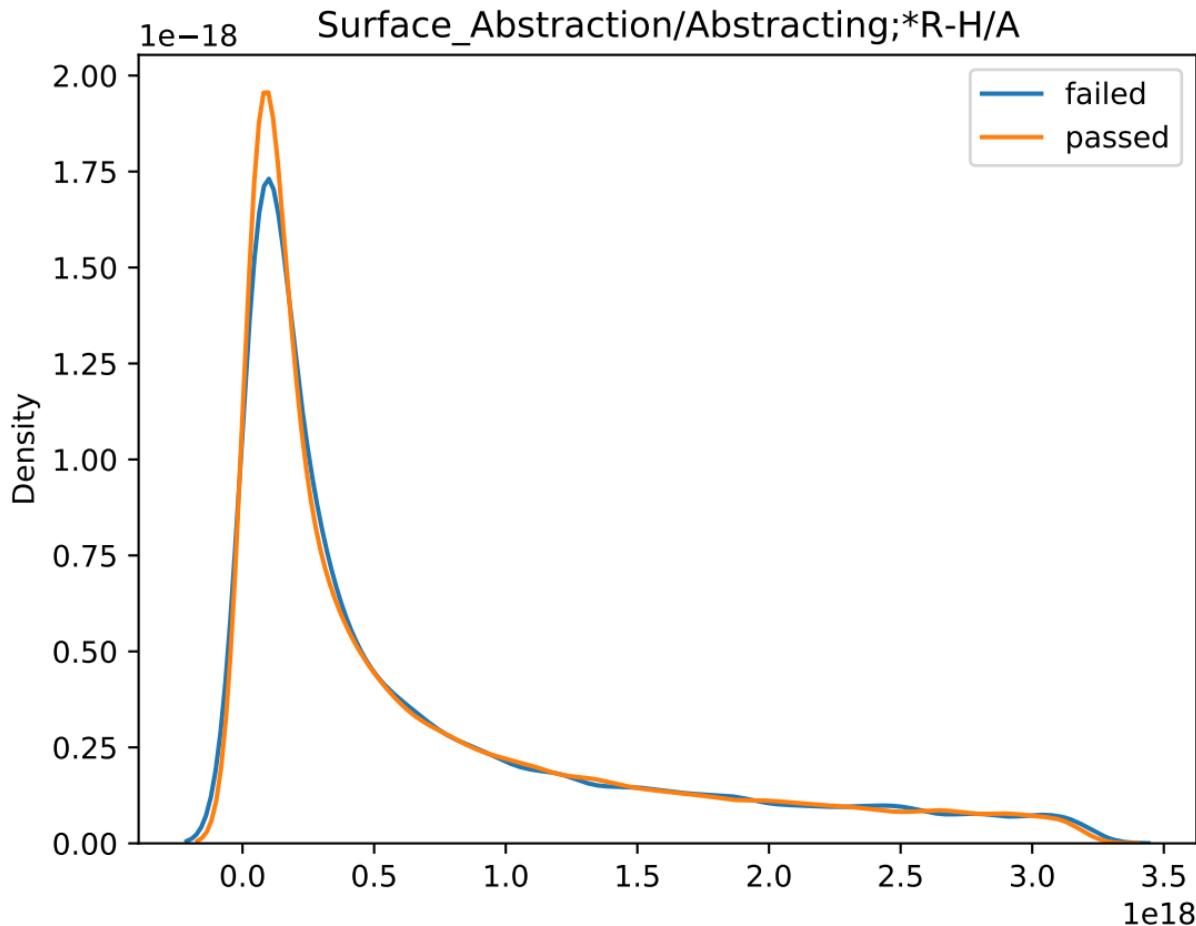


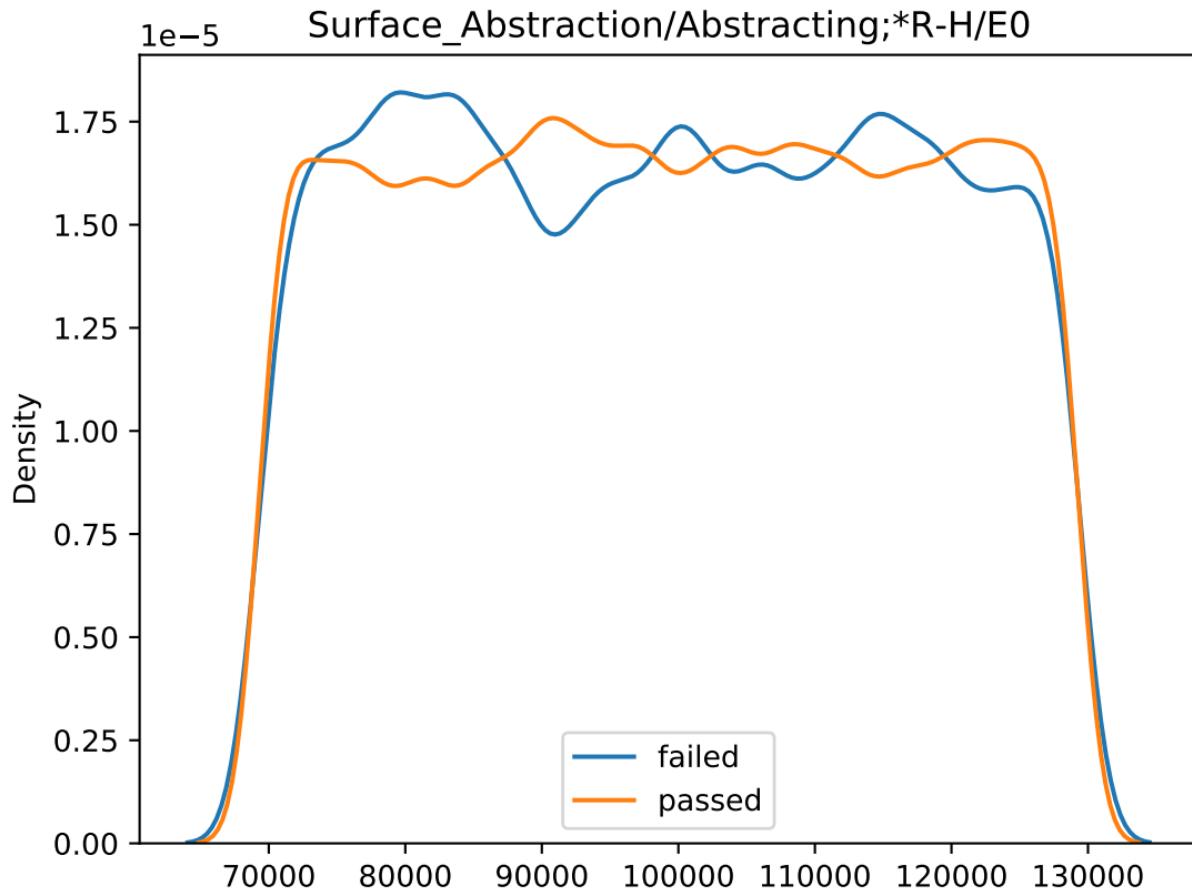




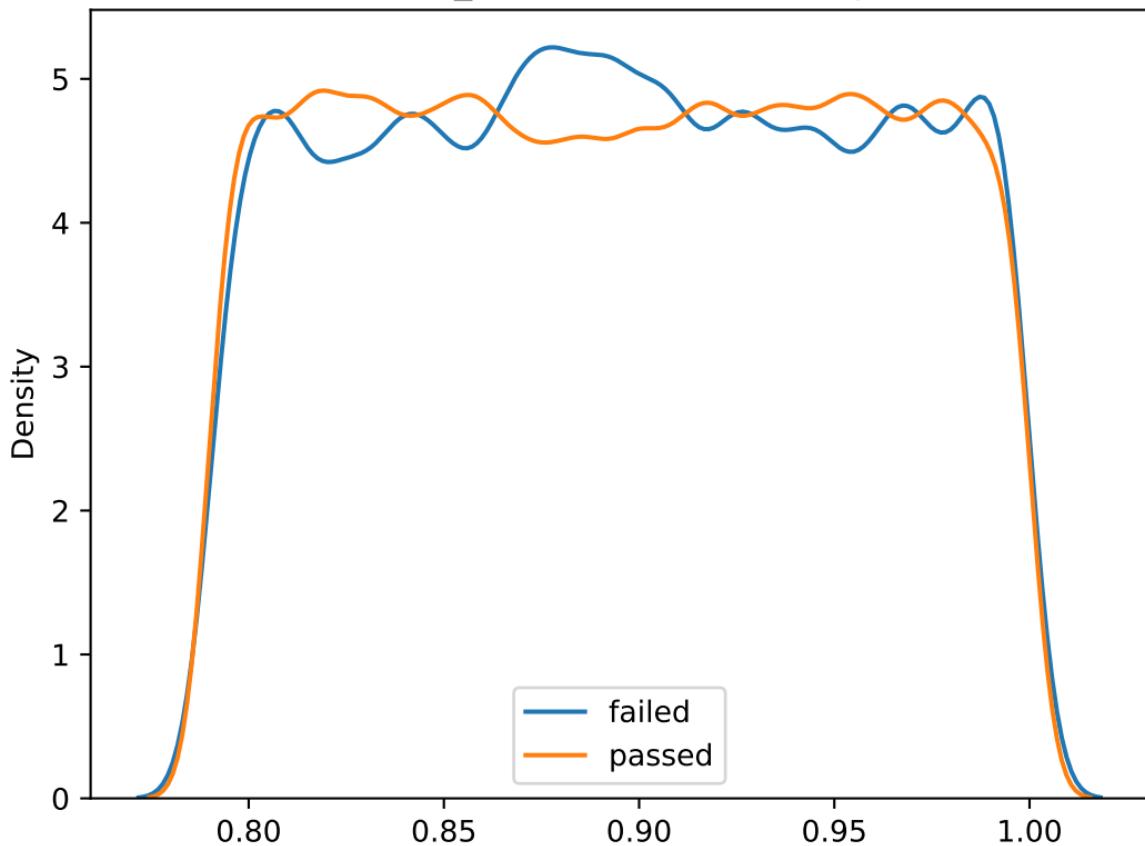
Surface_Abstraction/Abstracting;*R-H/alpha

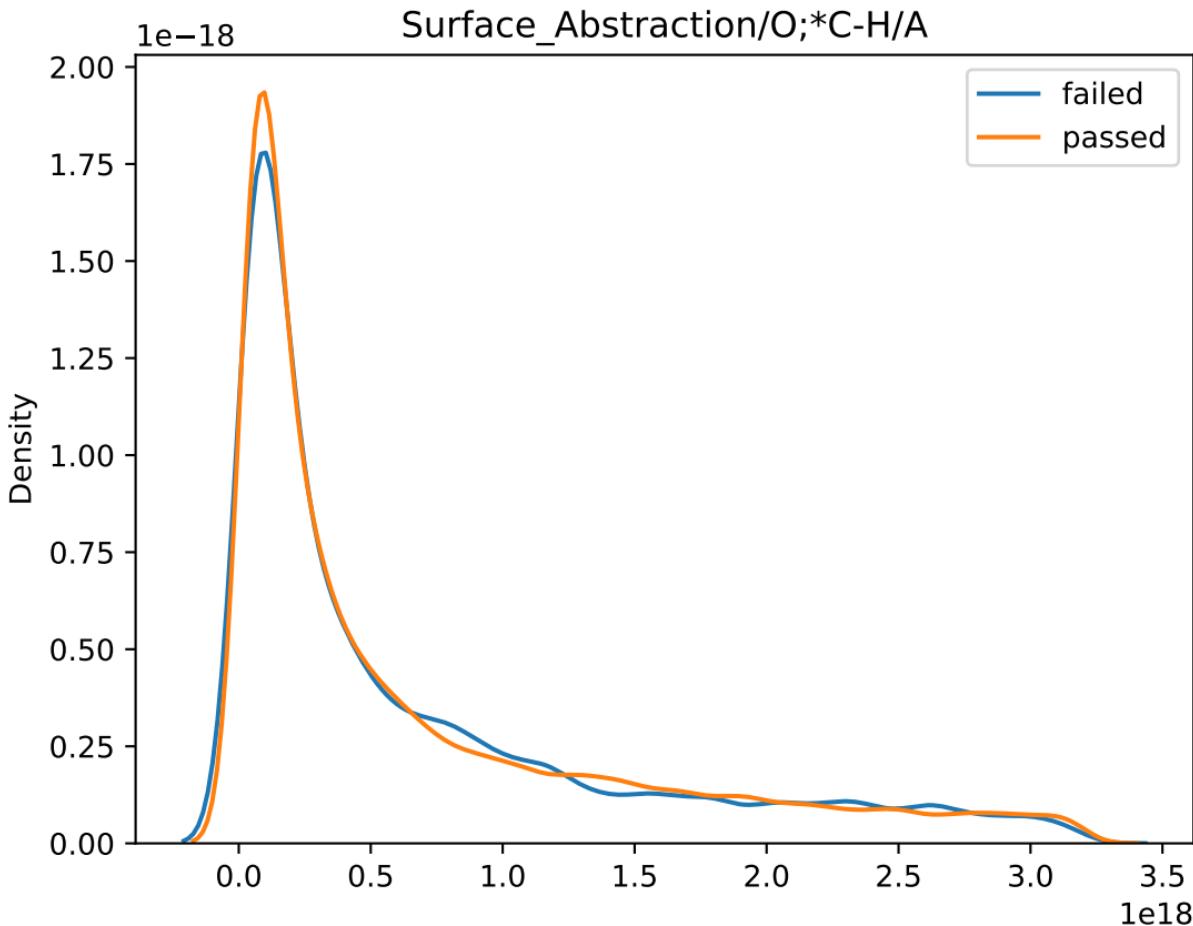


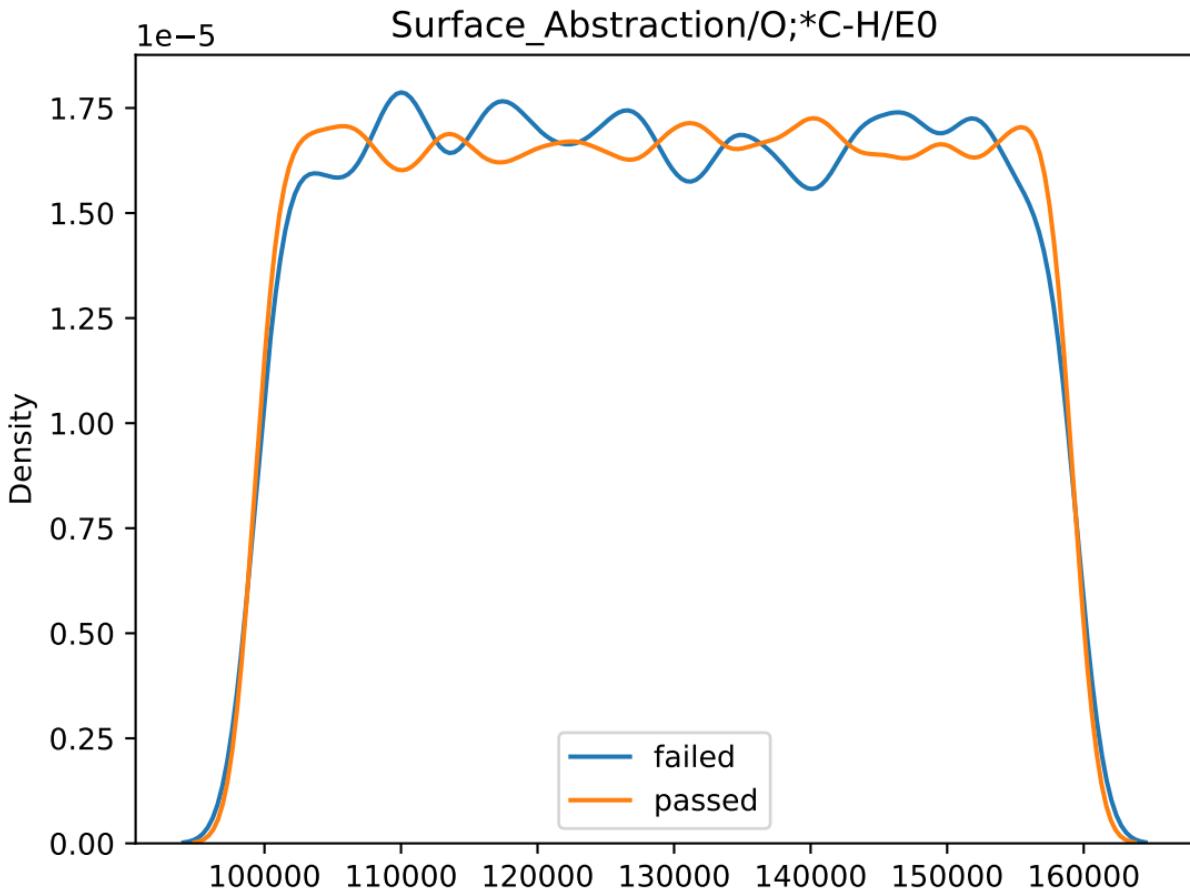




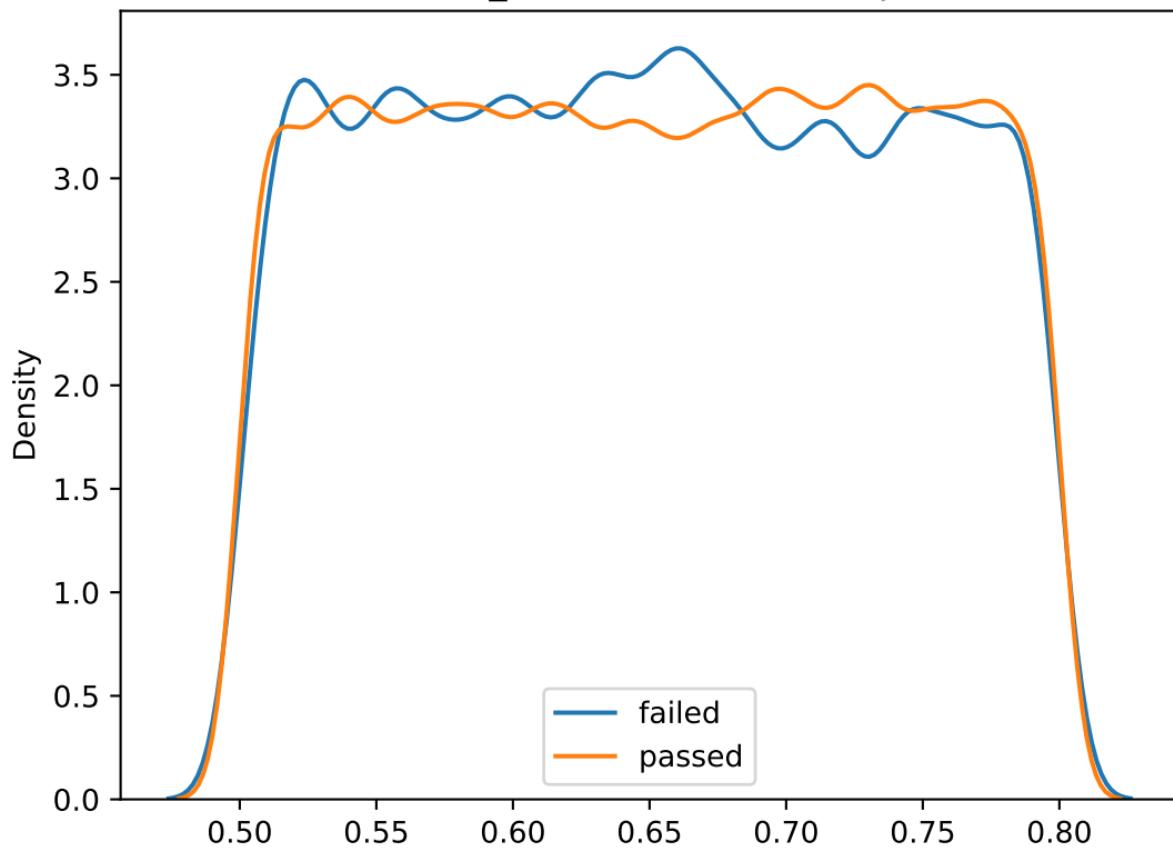
Surface_Abstraction/O;*C-H/alpha

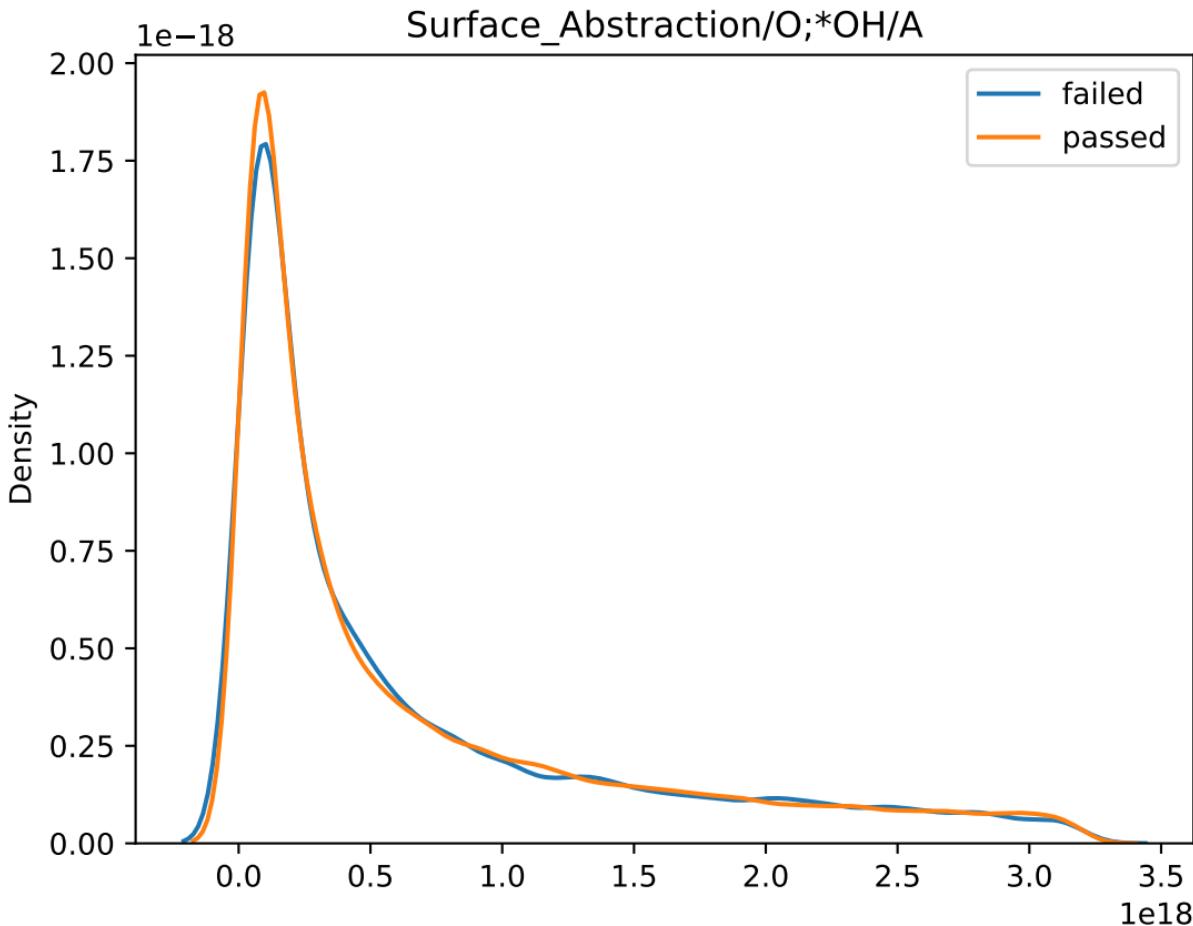


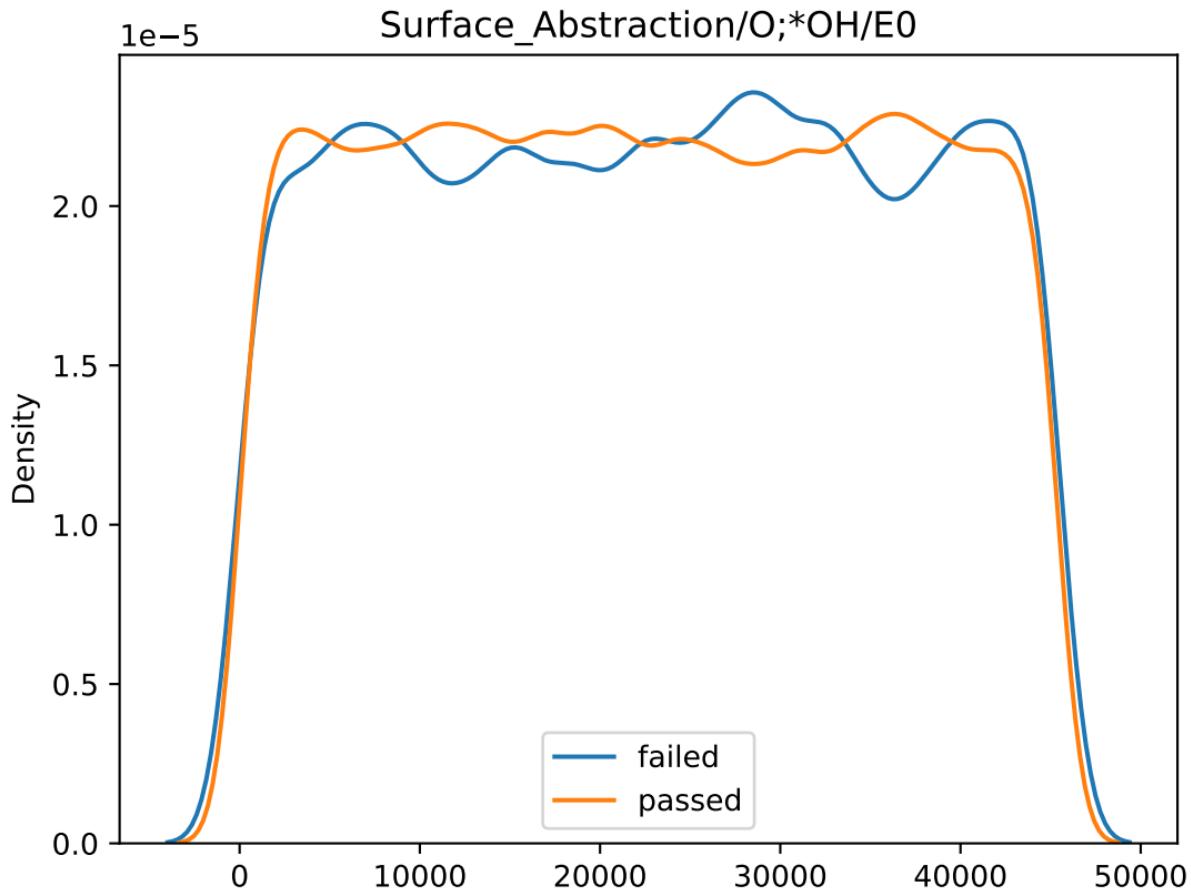




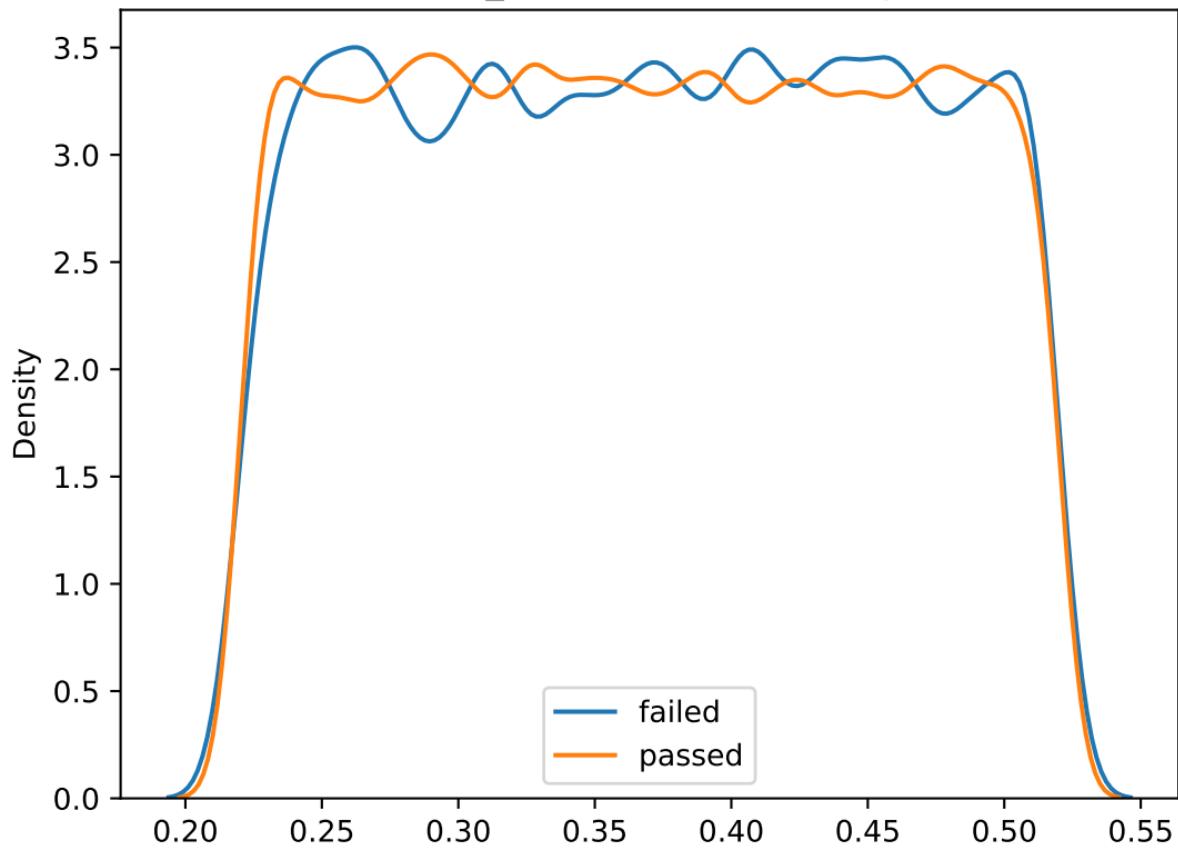
Surface_Abstraction/O;*OH/alpha

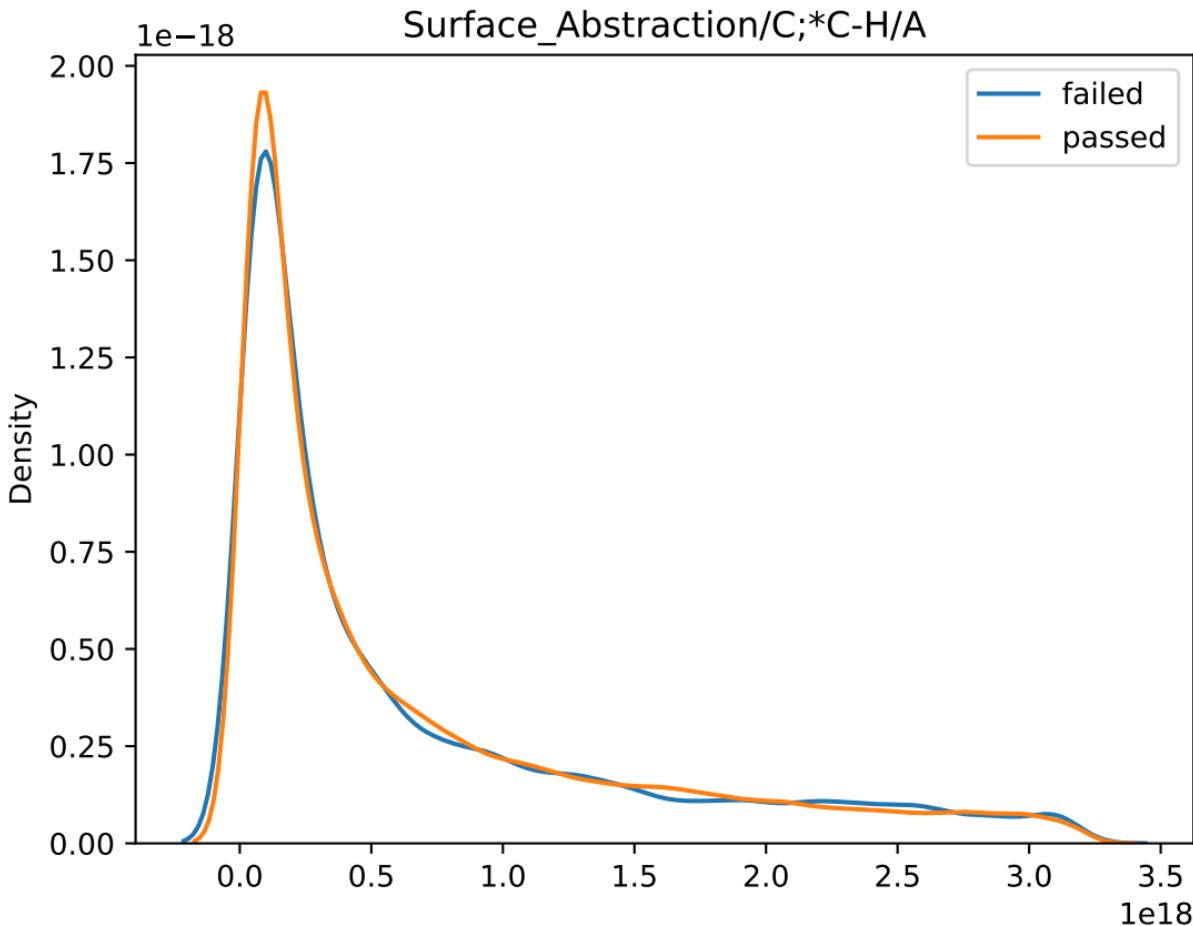


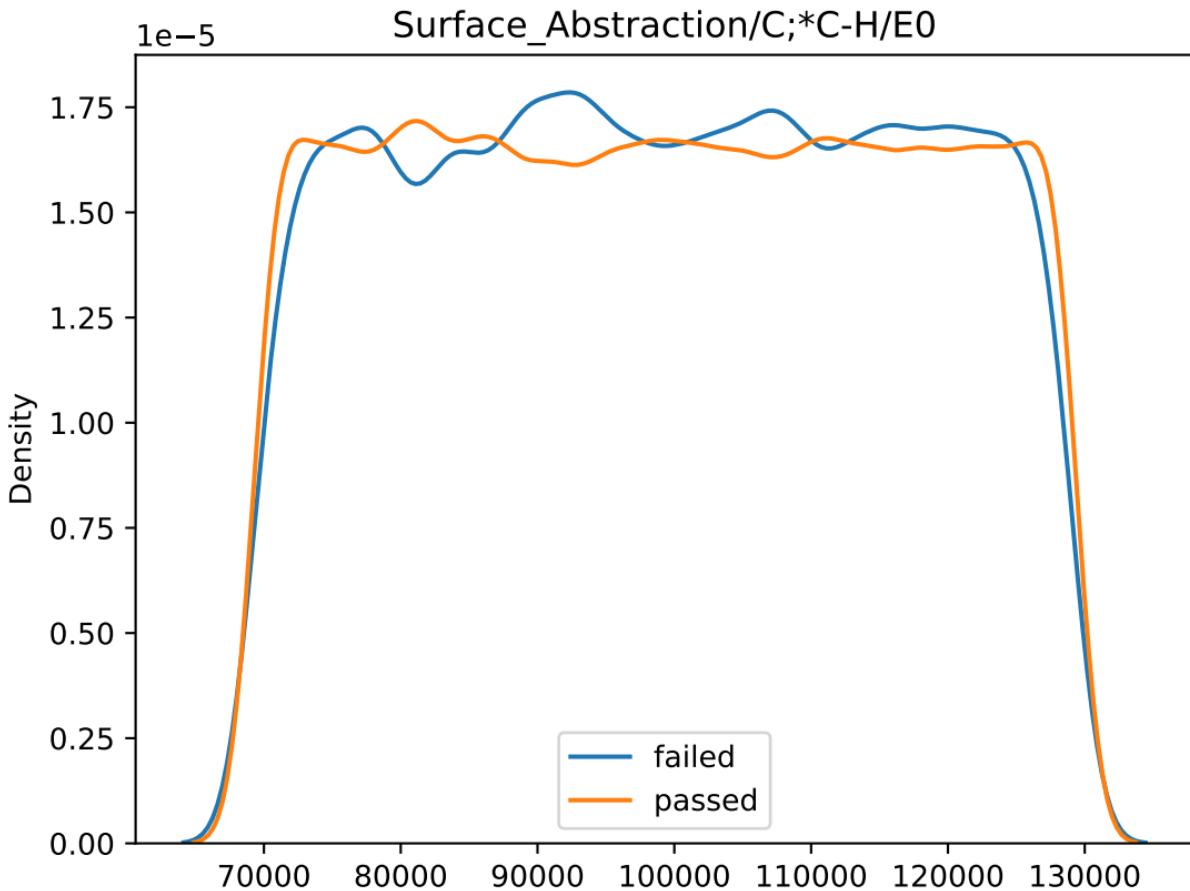




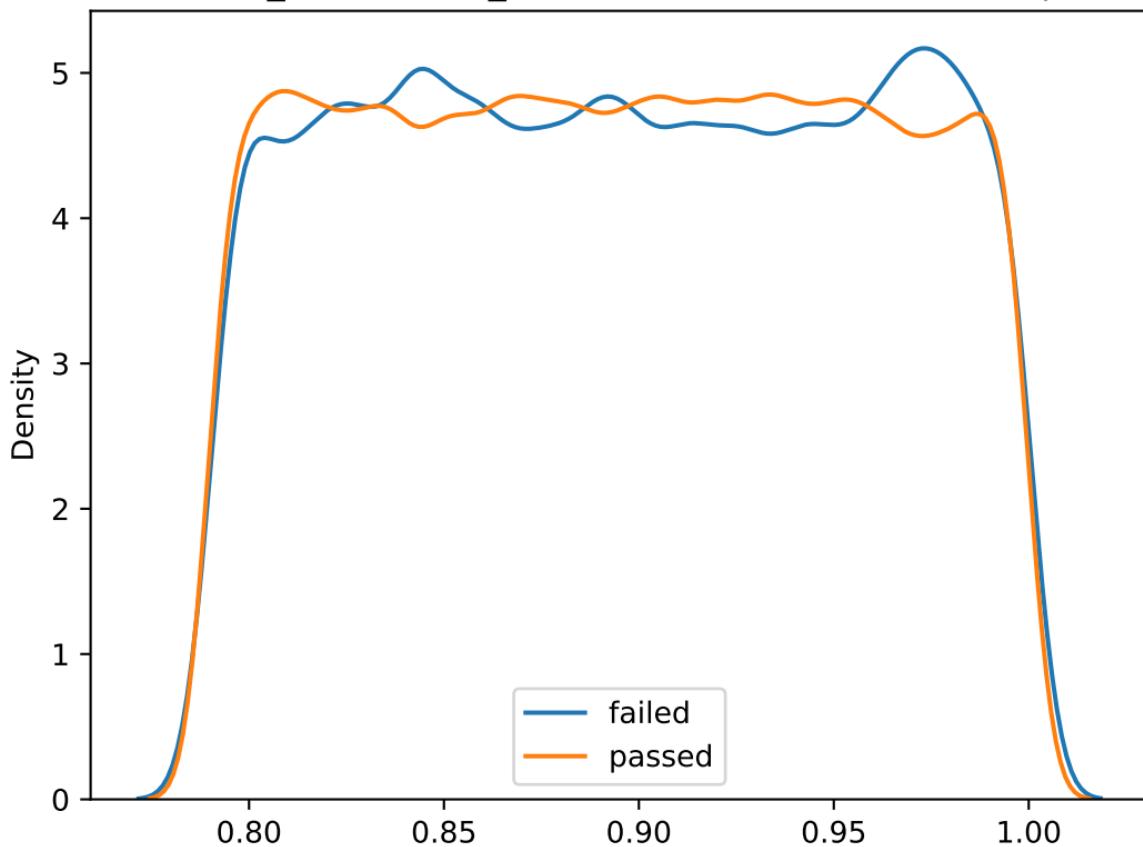
Surface_Abstraction/C;*C-H/alpha



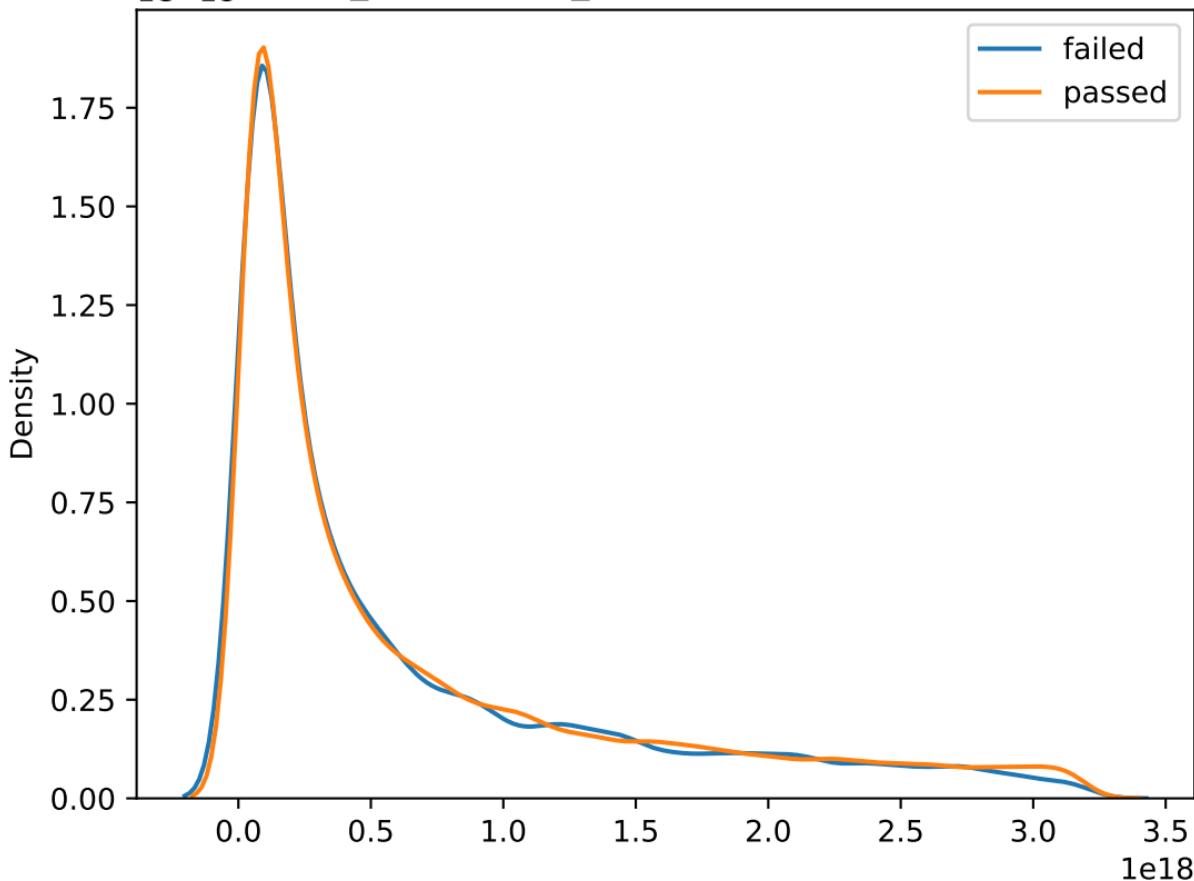


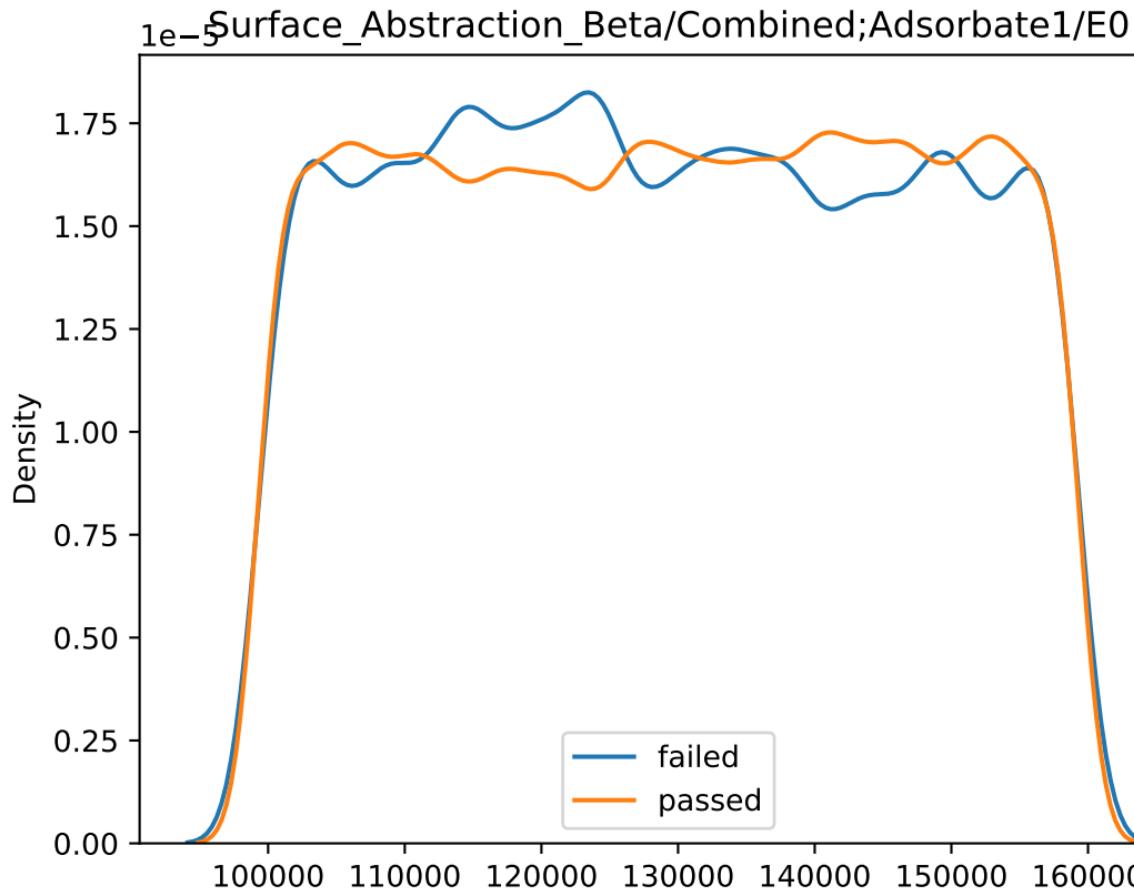


Surface_Abstraction_Beta/Combined;Adsorbate1/alpha

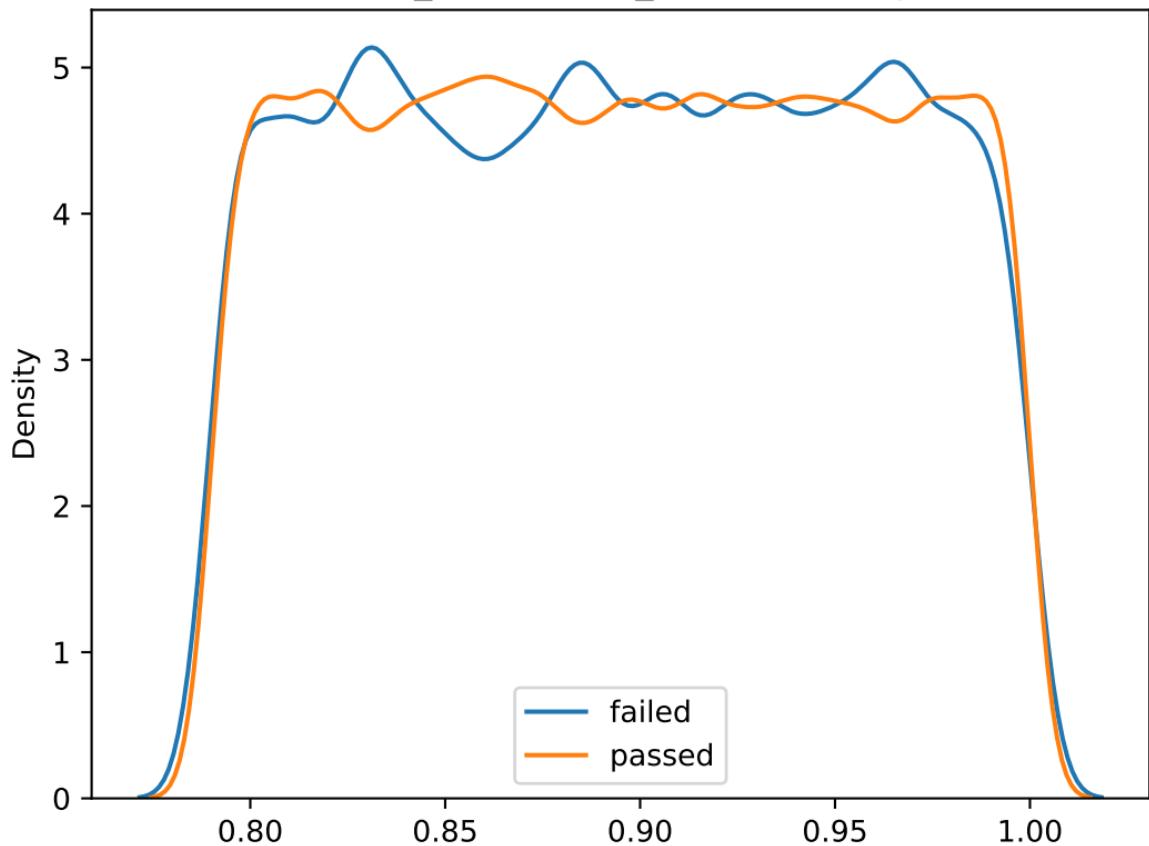


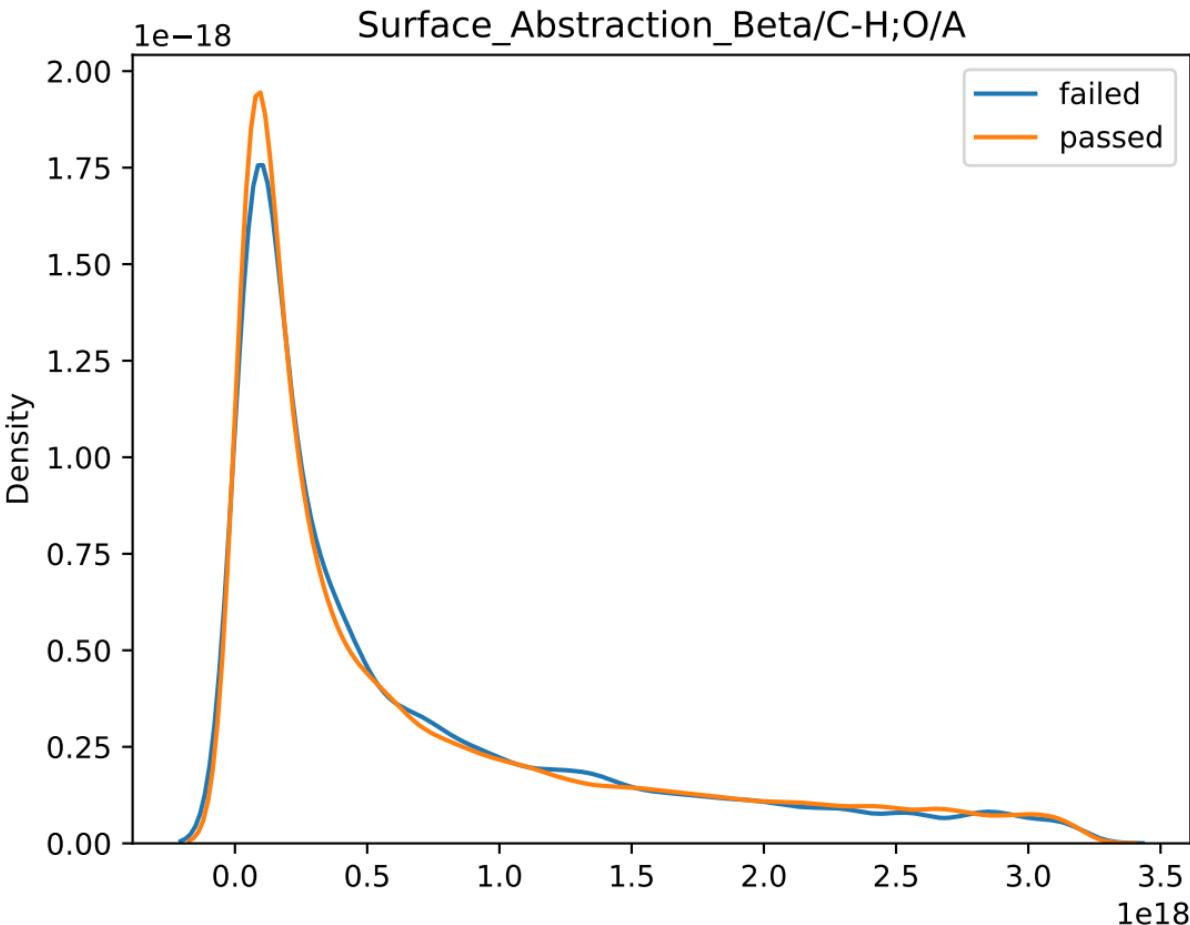
$1e-18$ Surface_Abstraction_Beta/Combined;Adsorbate1/A

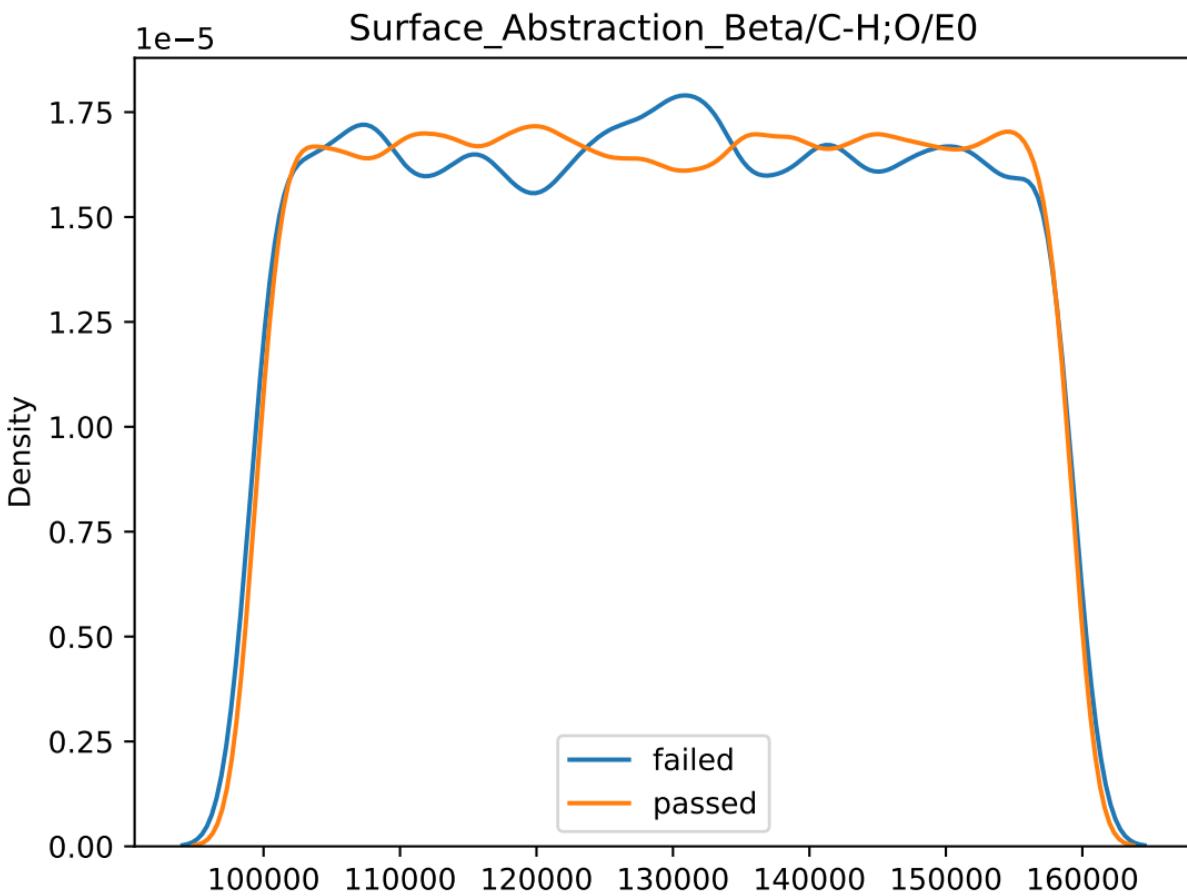




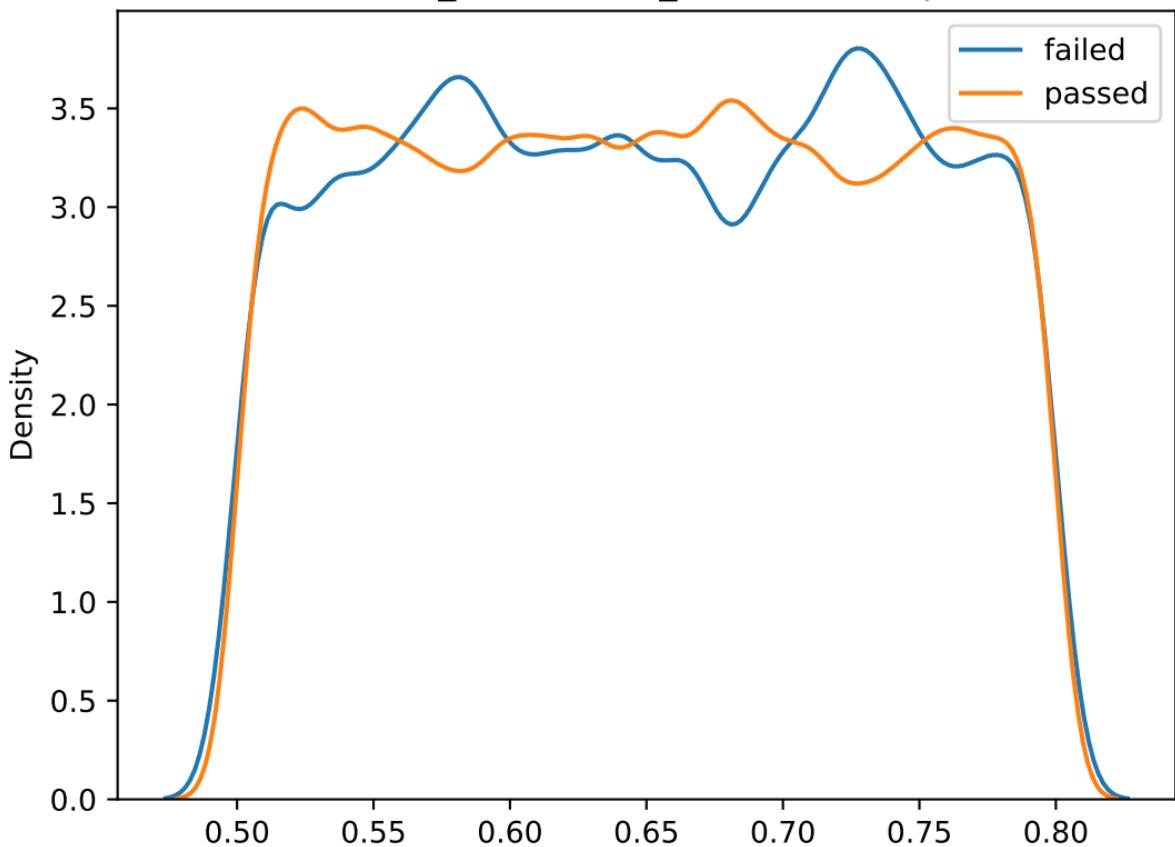
Surface_Abstraction_Beta/C-H;O/alpha

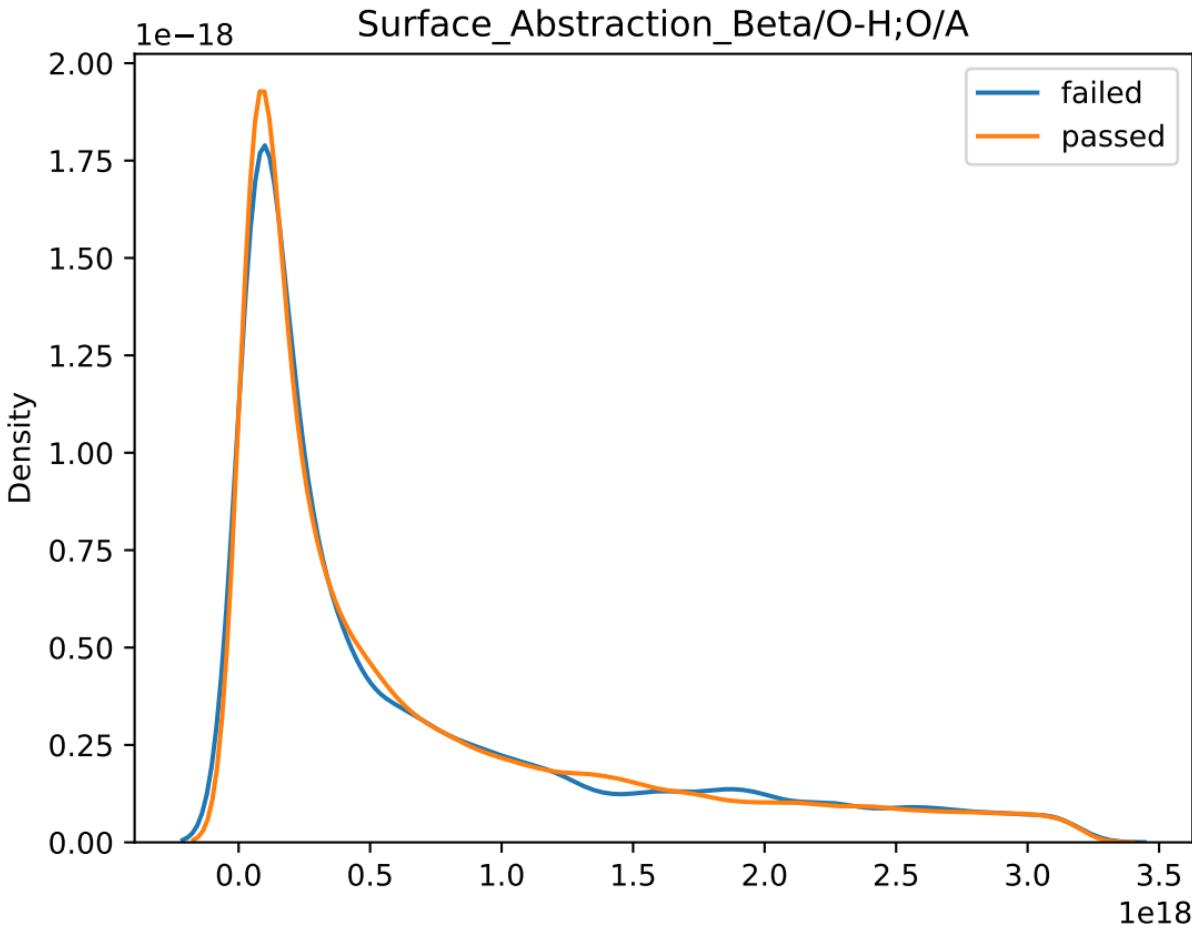


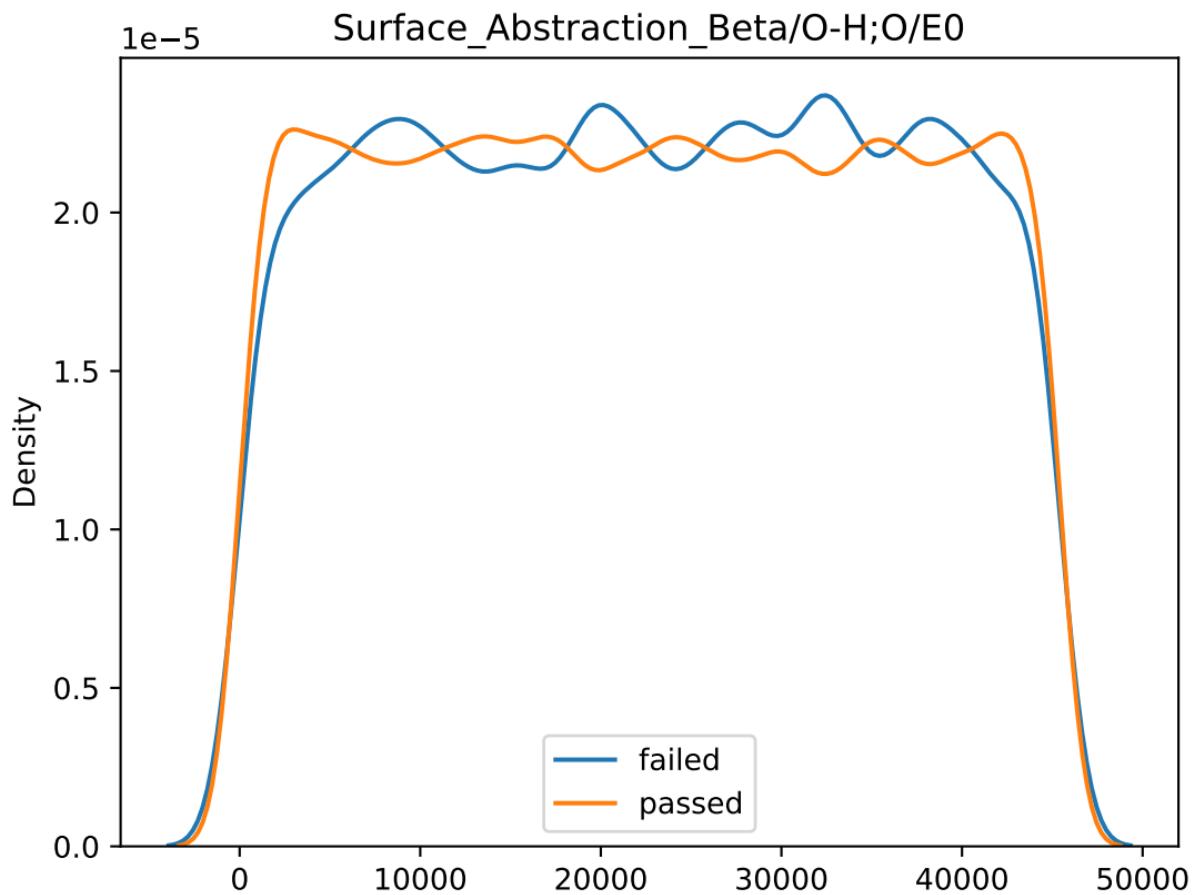




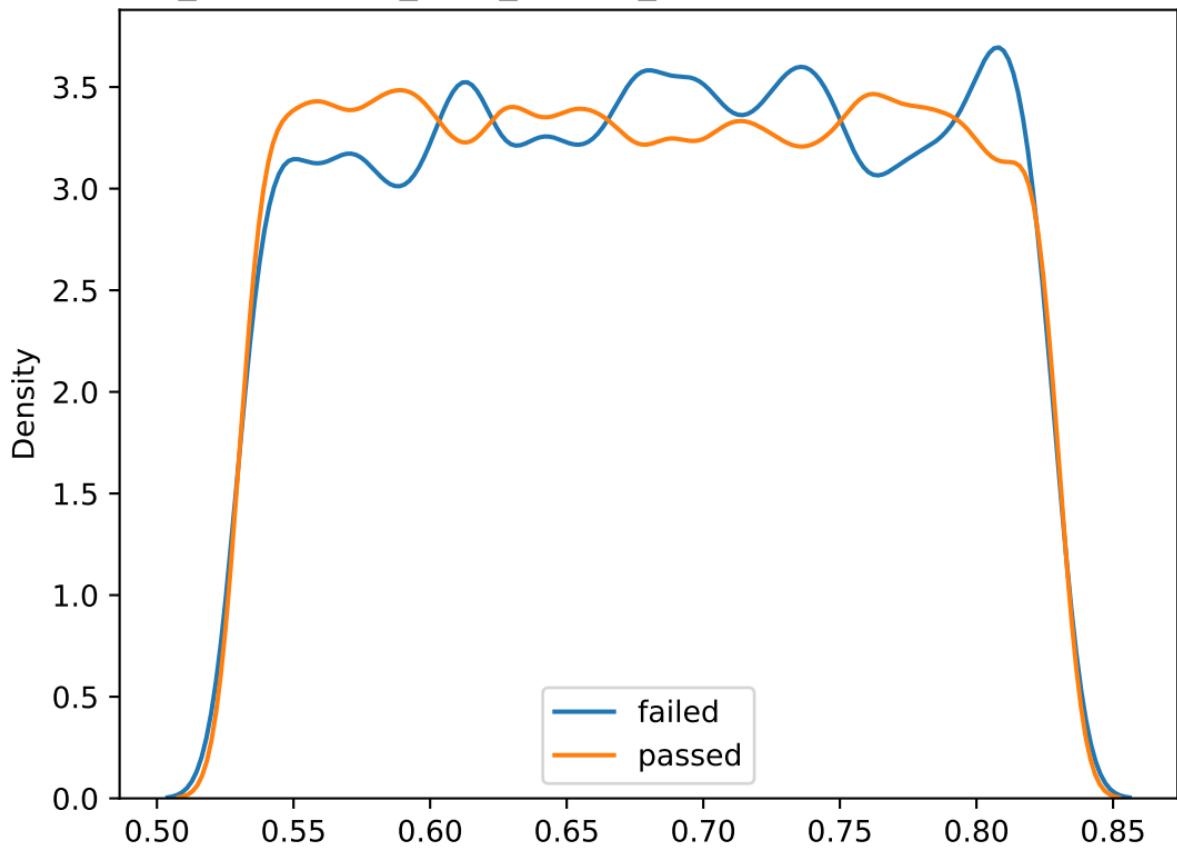
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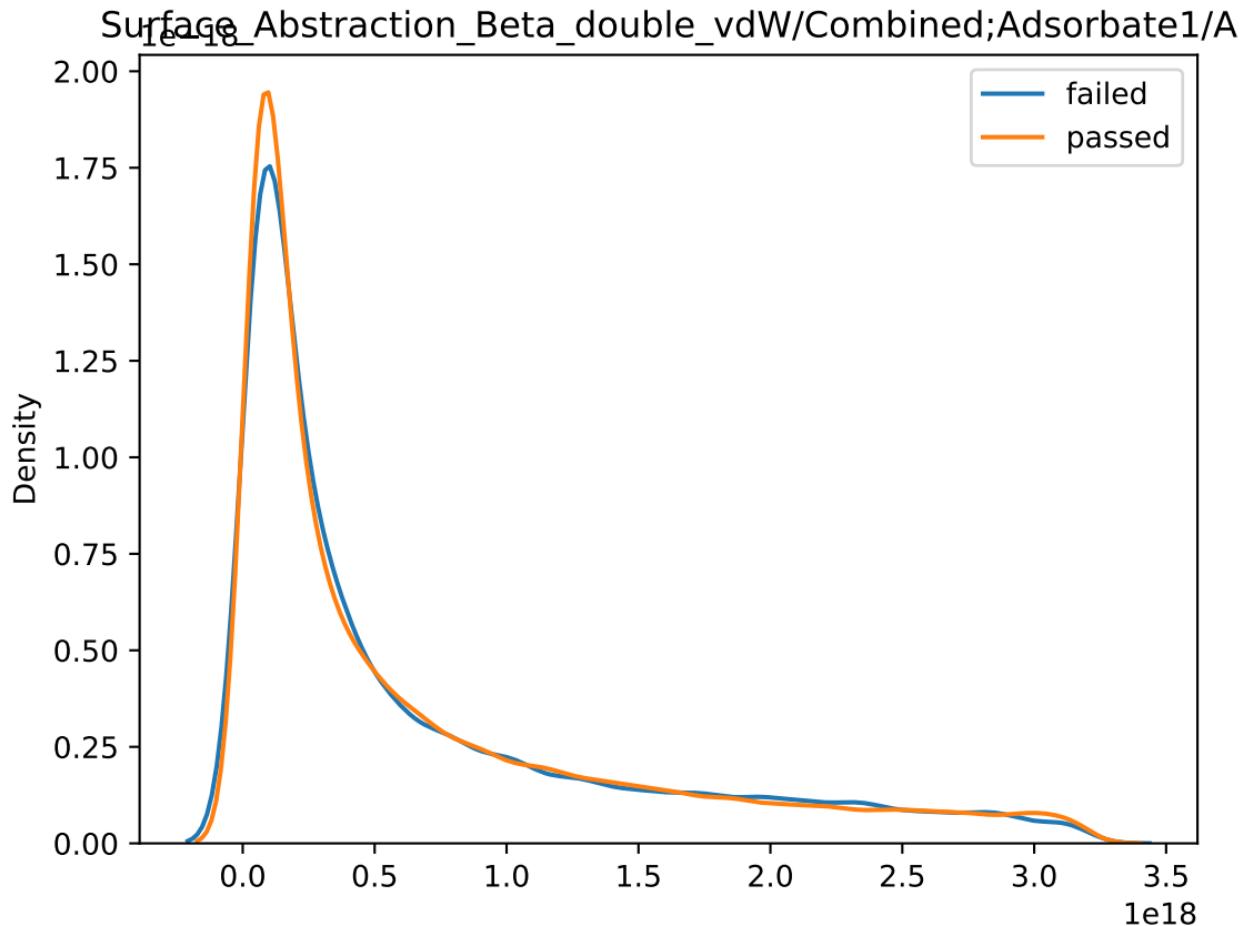




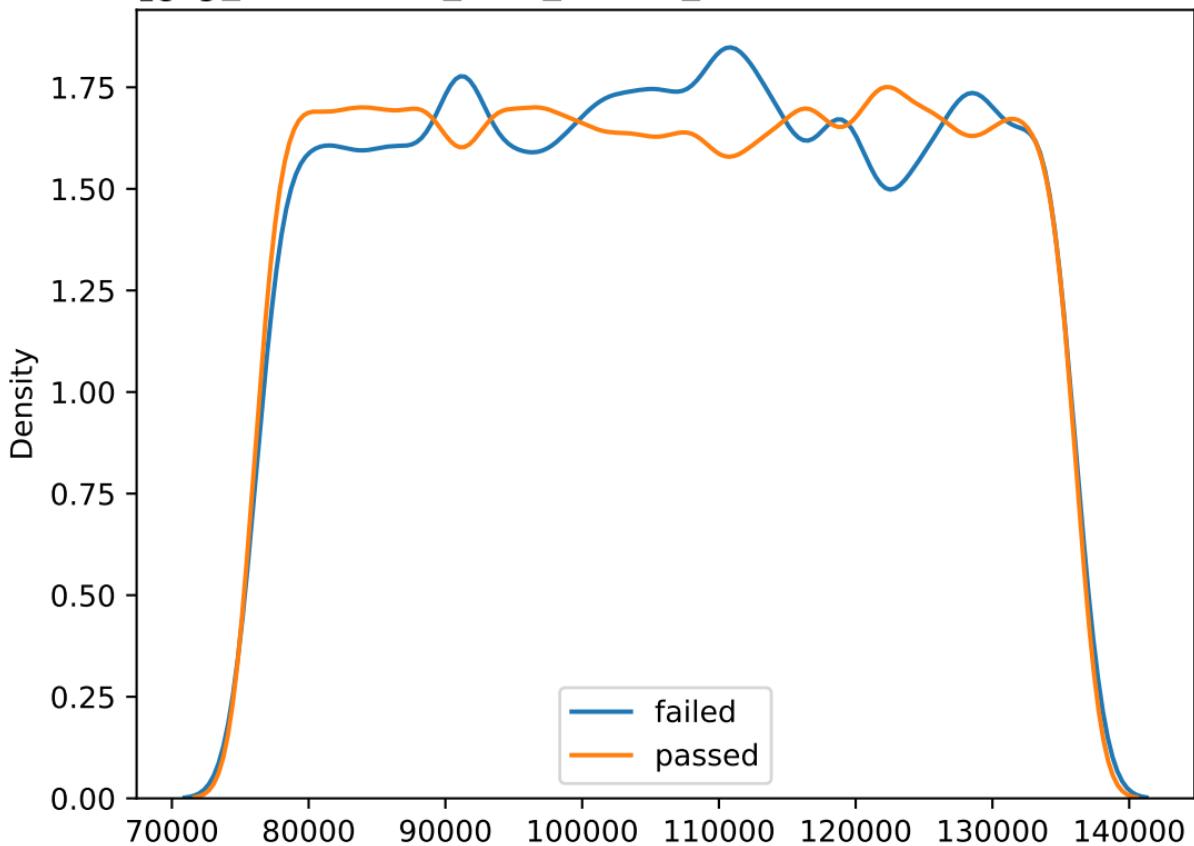


Surface_Abstraction_Beta_double_vdW/Combined;Adsorbate1/alpha

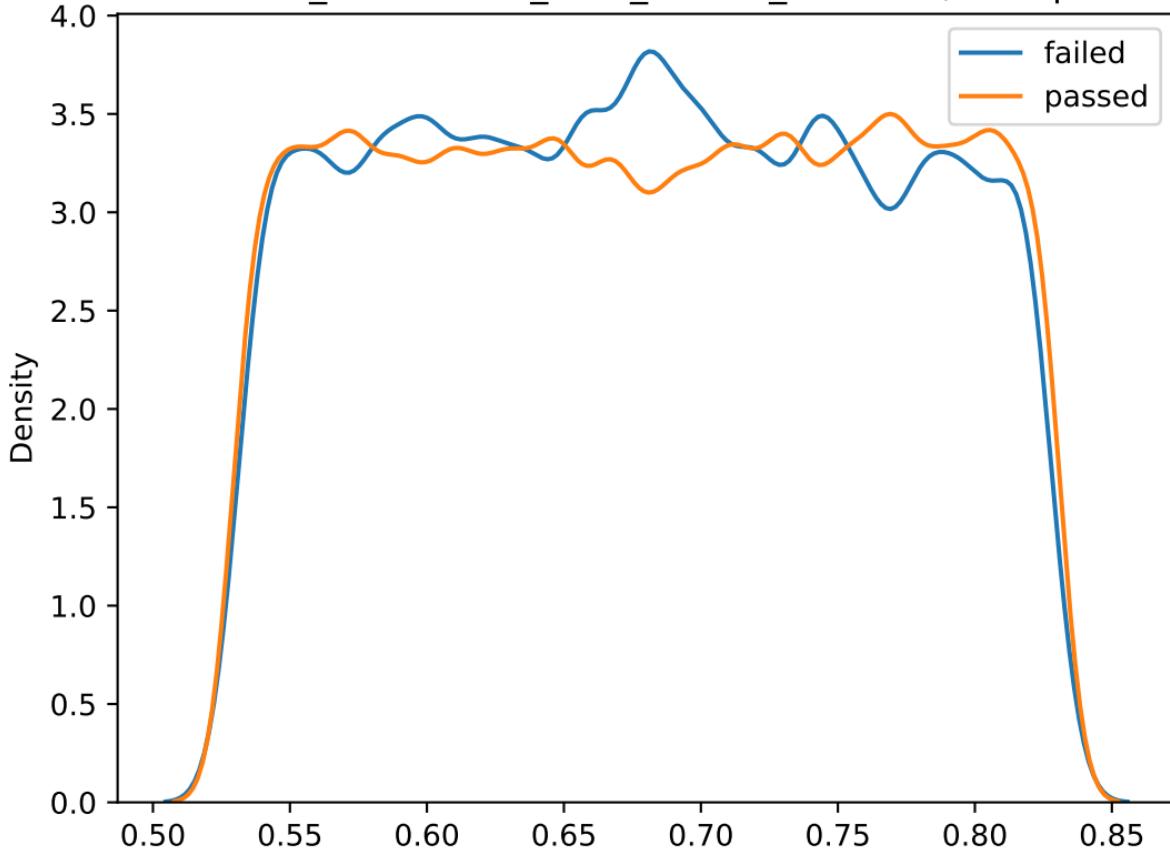




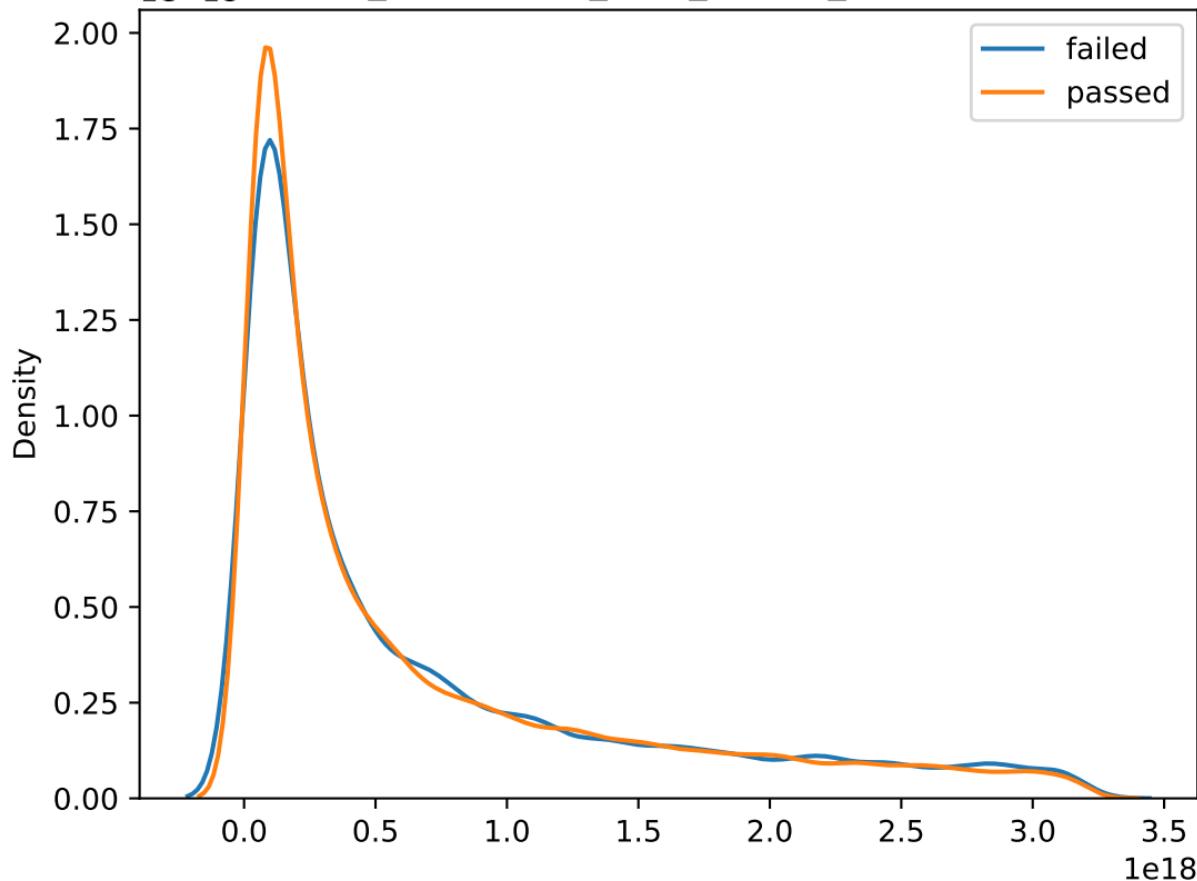
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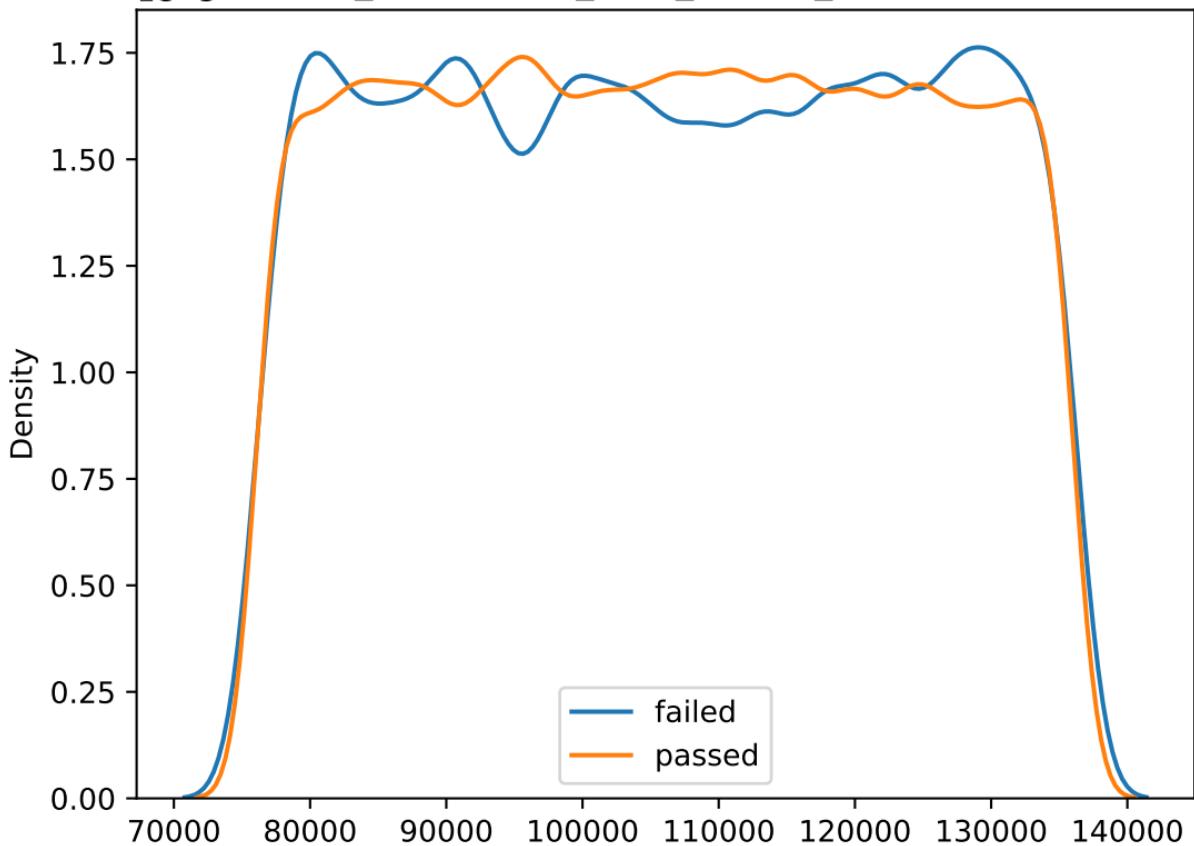
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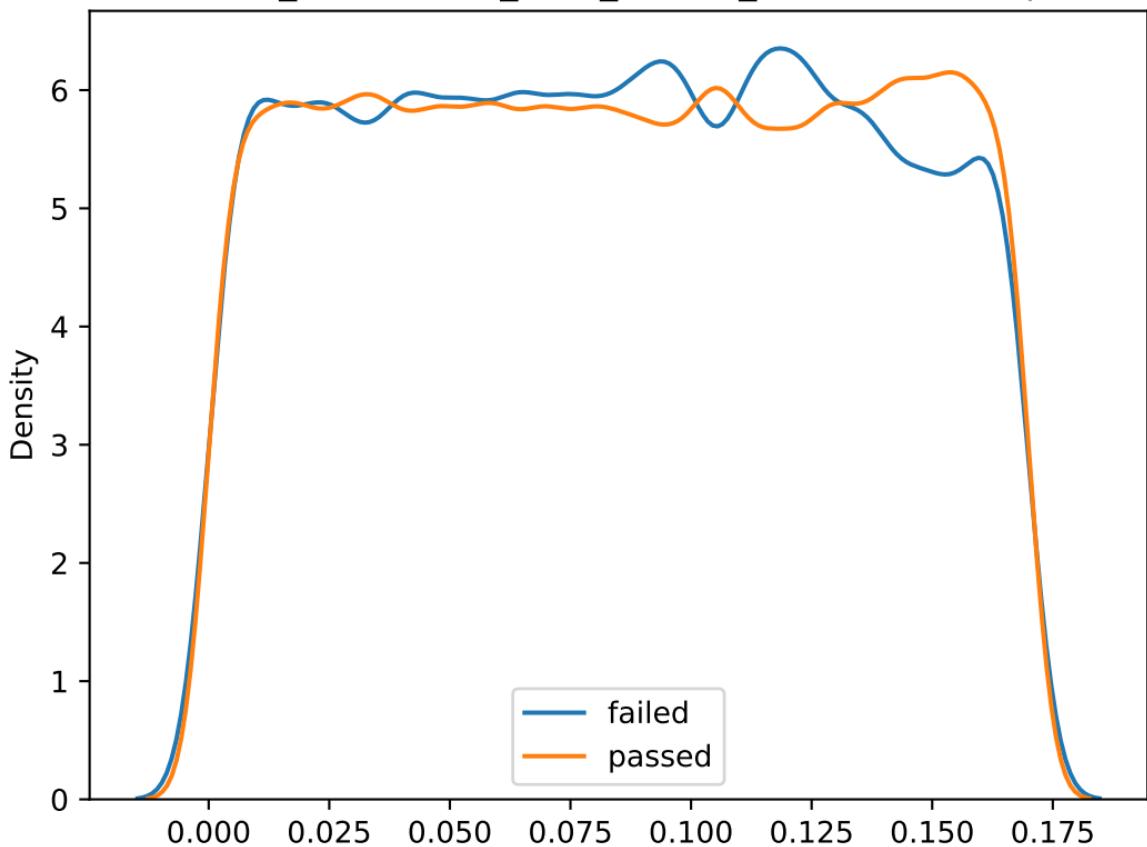
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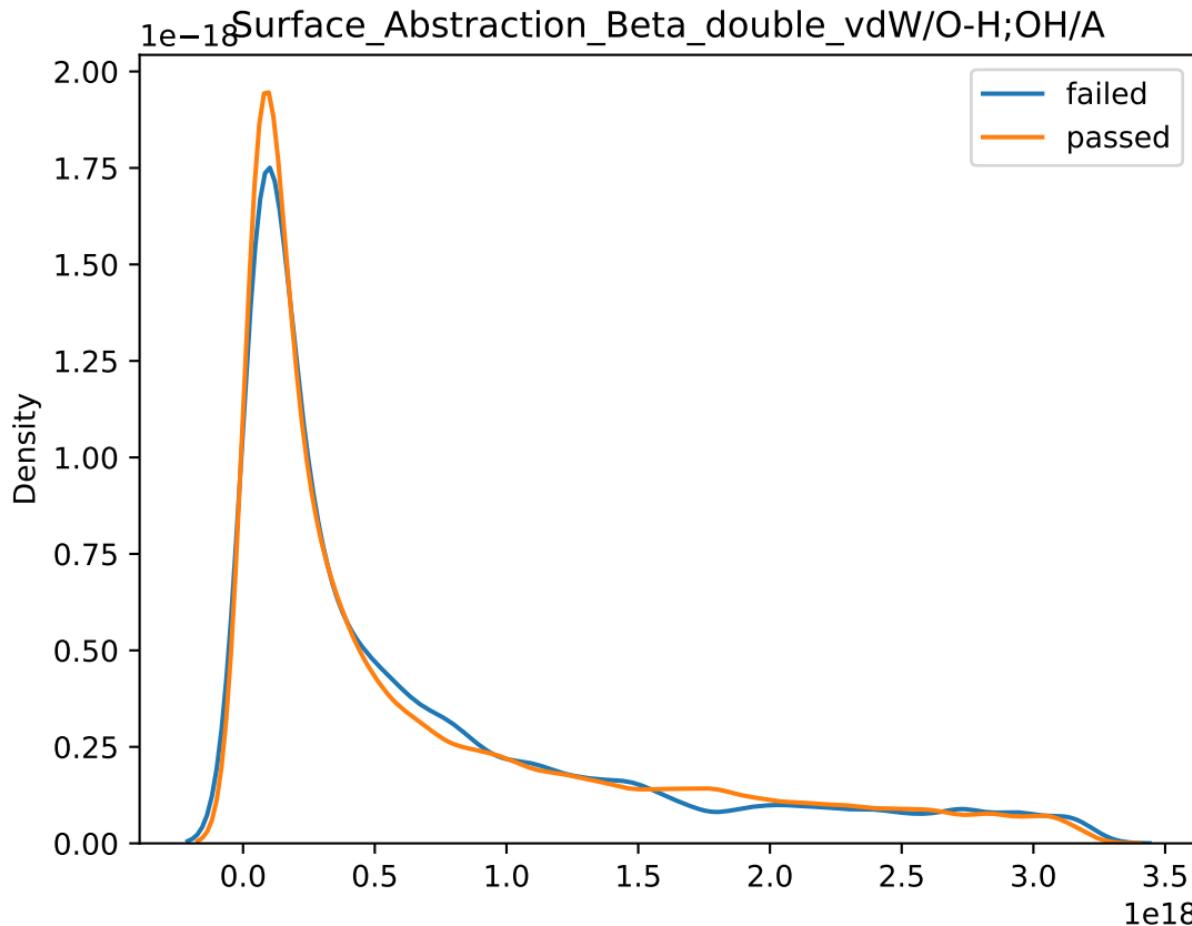


$1e-5$ Surface_Abstraction_Beta_double_vdW/C-H;OH/E0

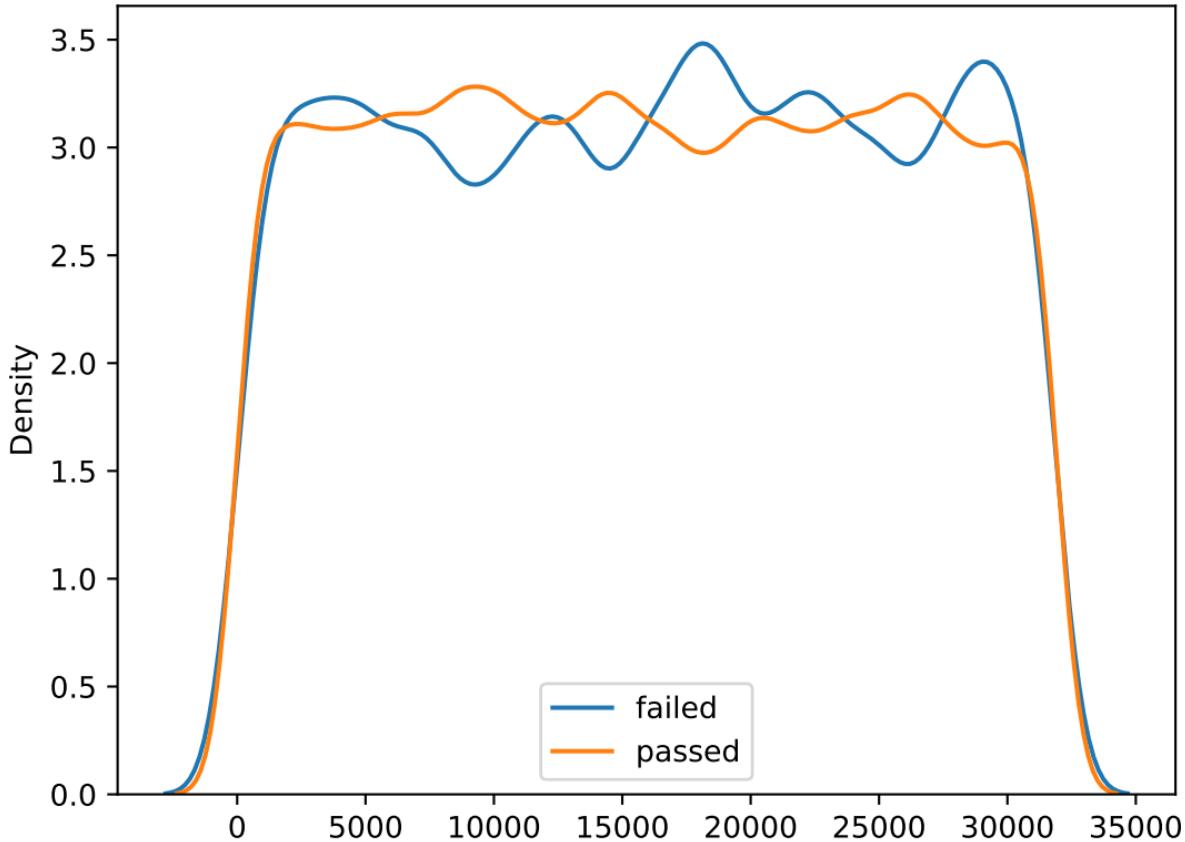


Surface_Abstraction_Beta_double_vdW/O-H;OH/alpha

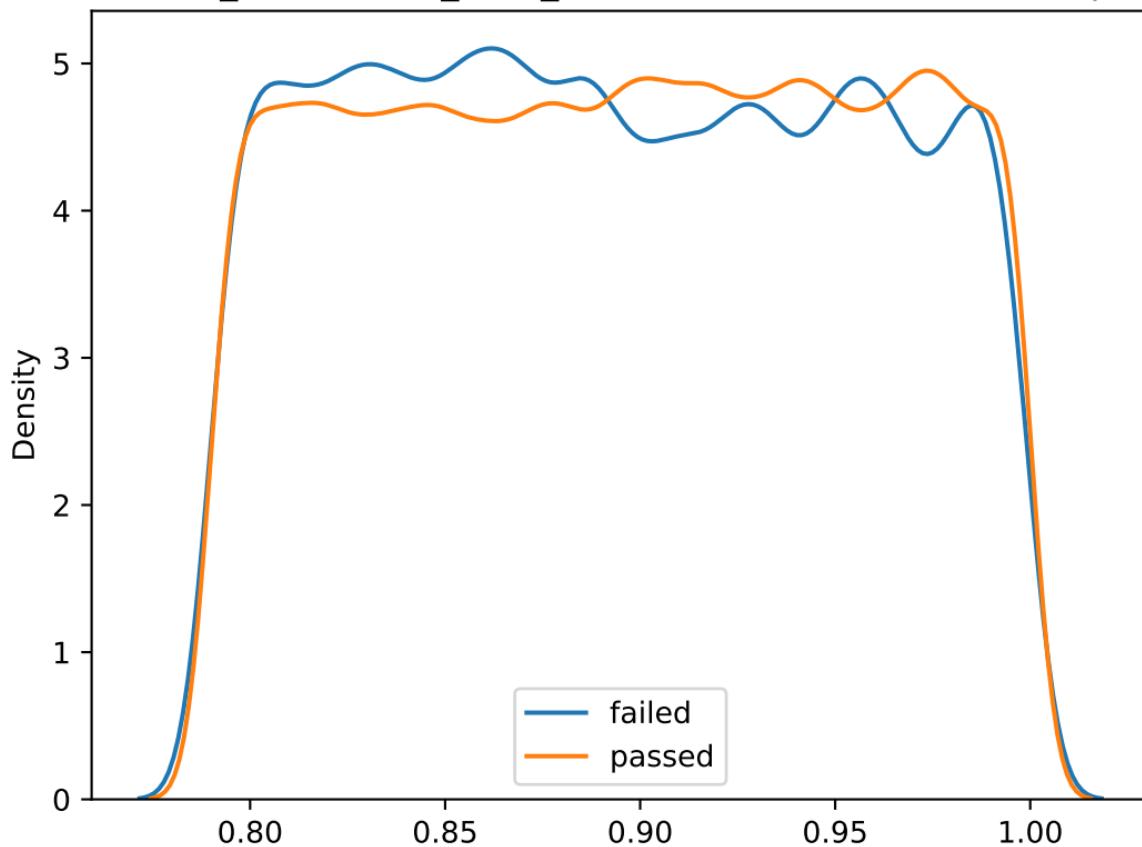


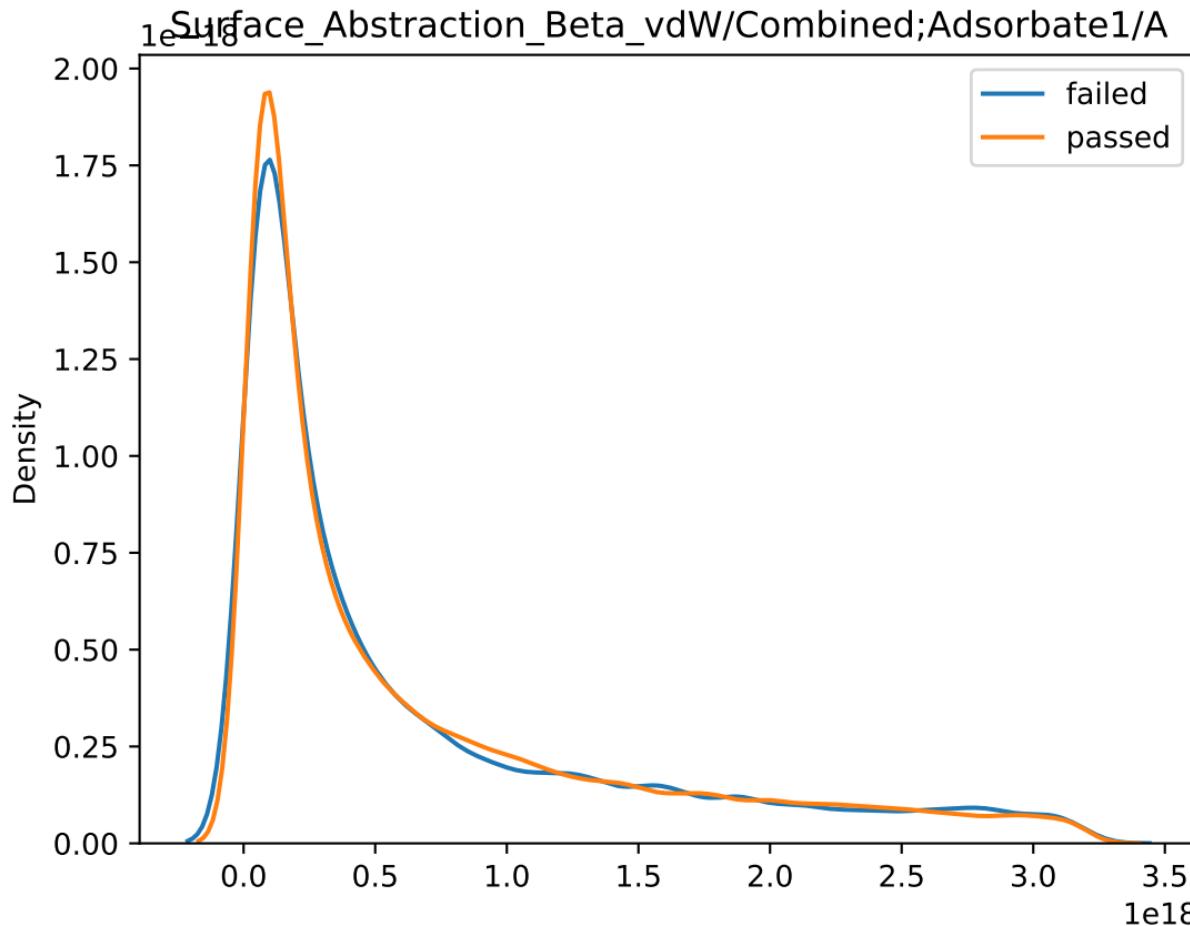


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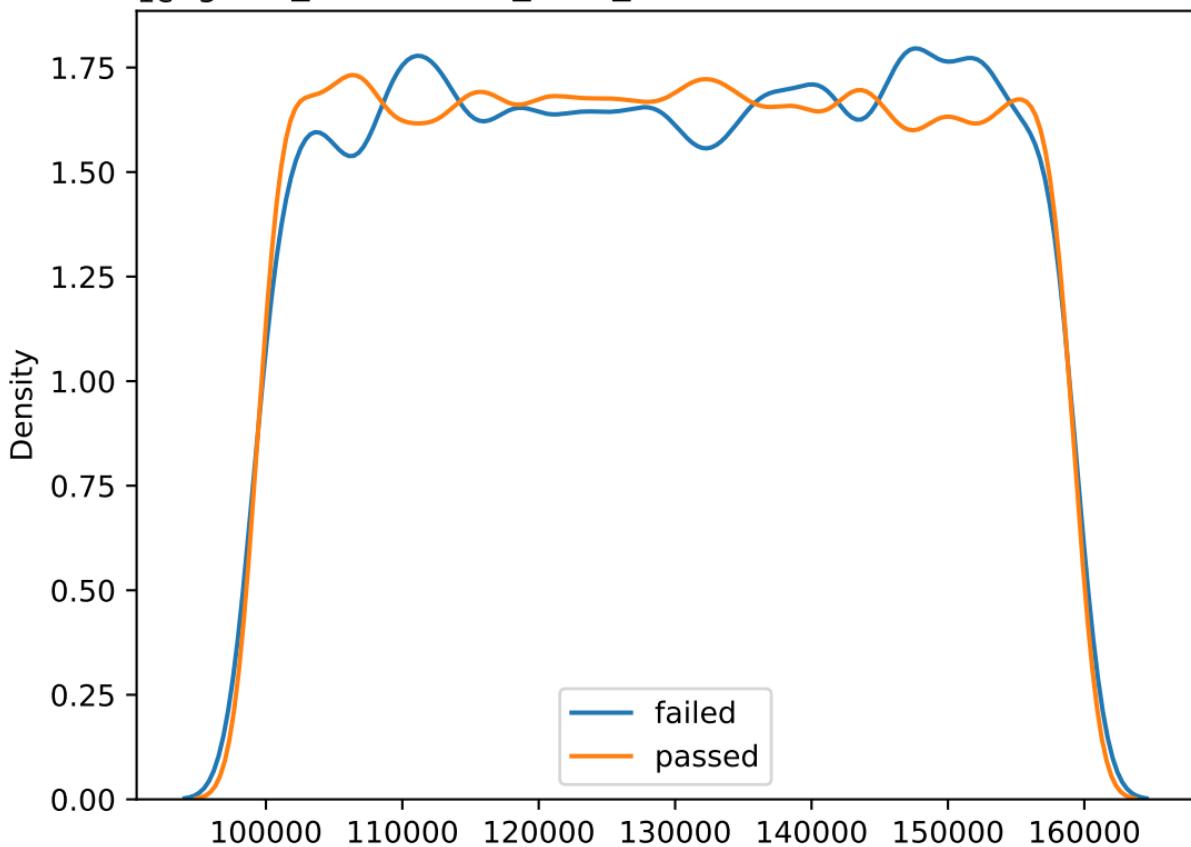


Surface_Abstraction_Beta_vdW/Combined;Adsorbate1/alpha

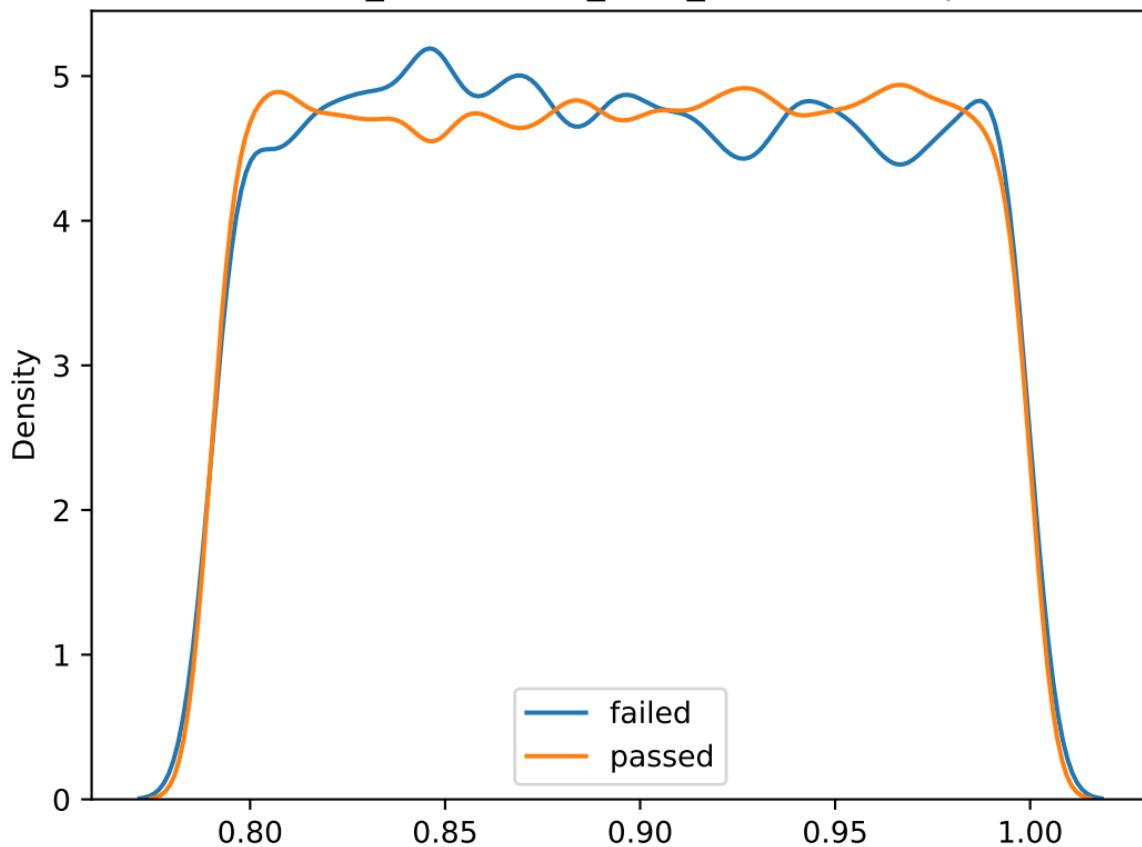


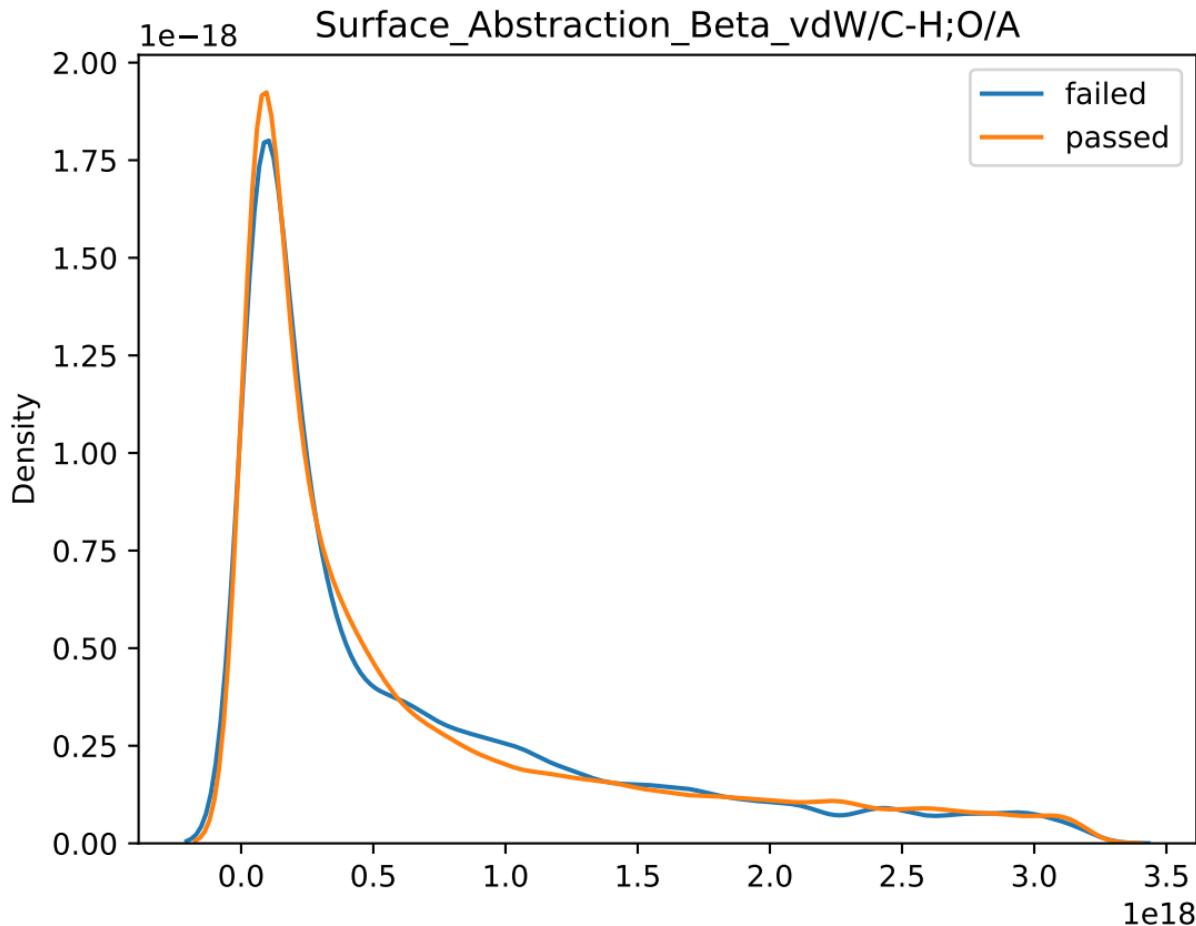


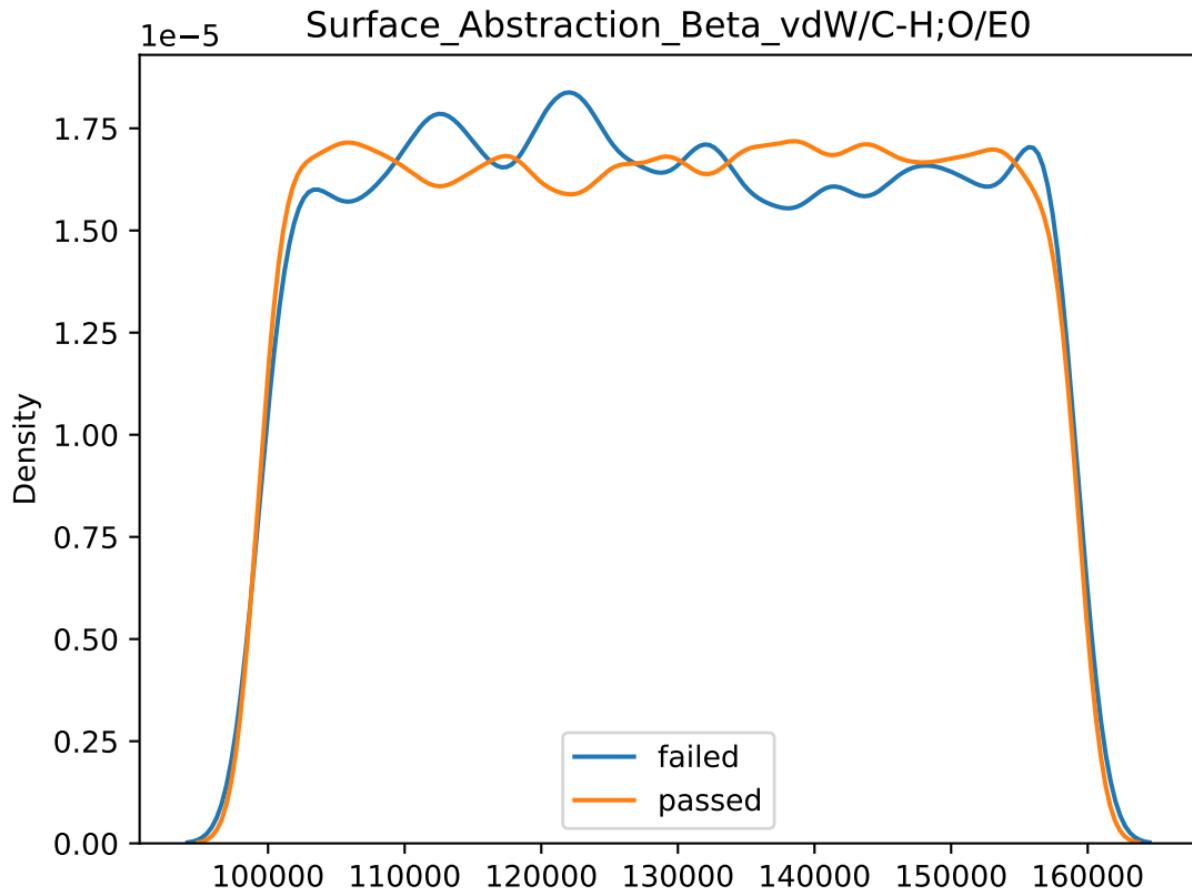
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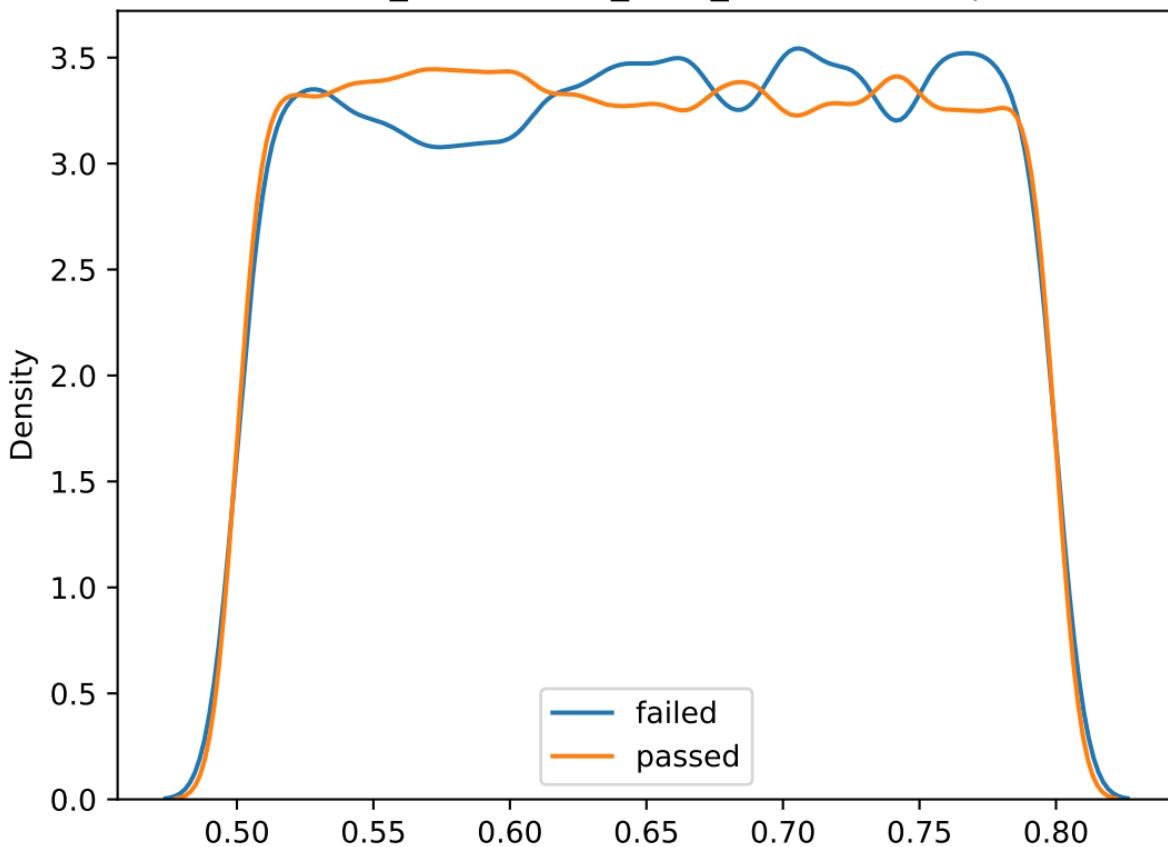
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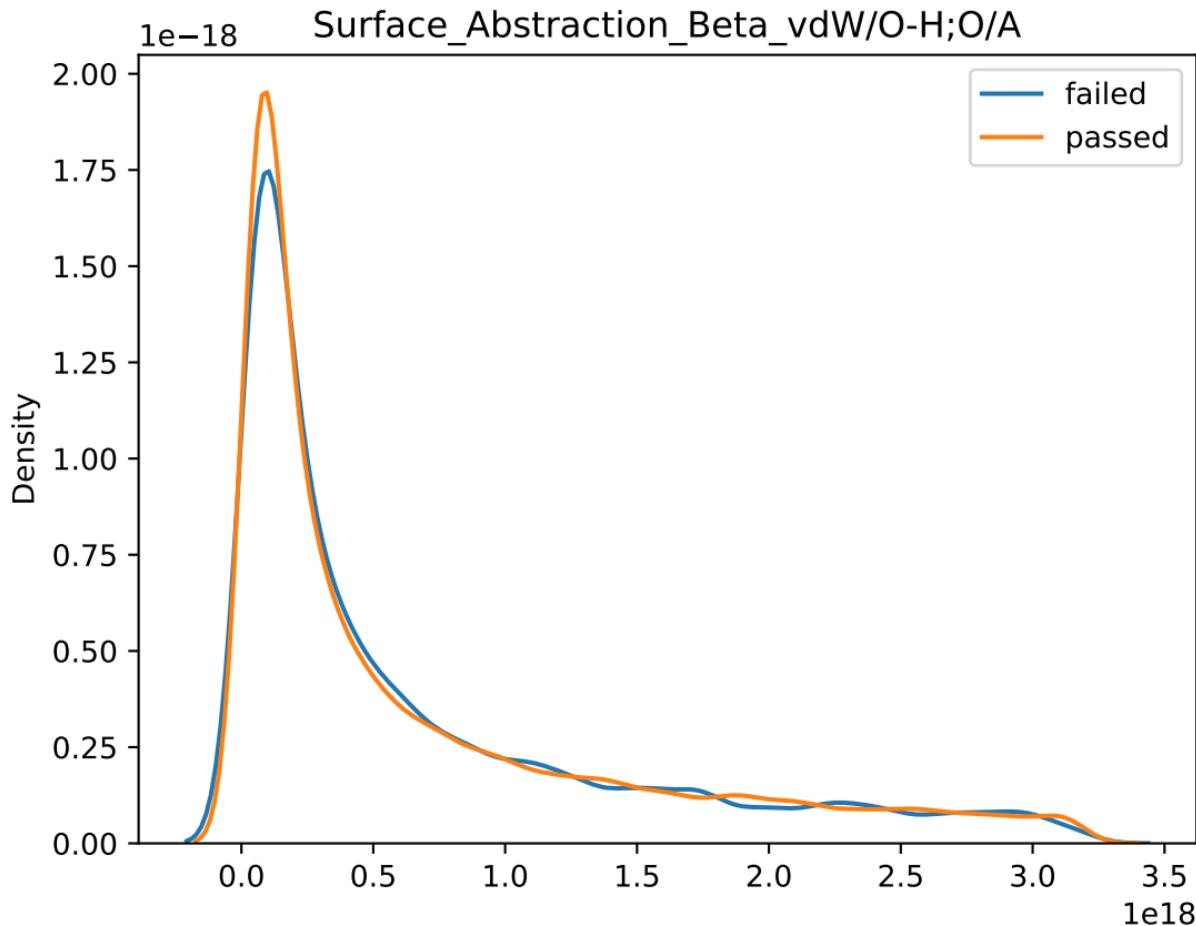




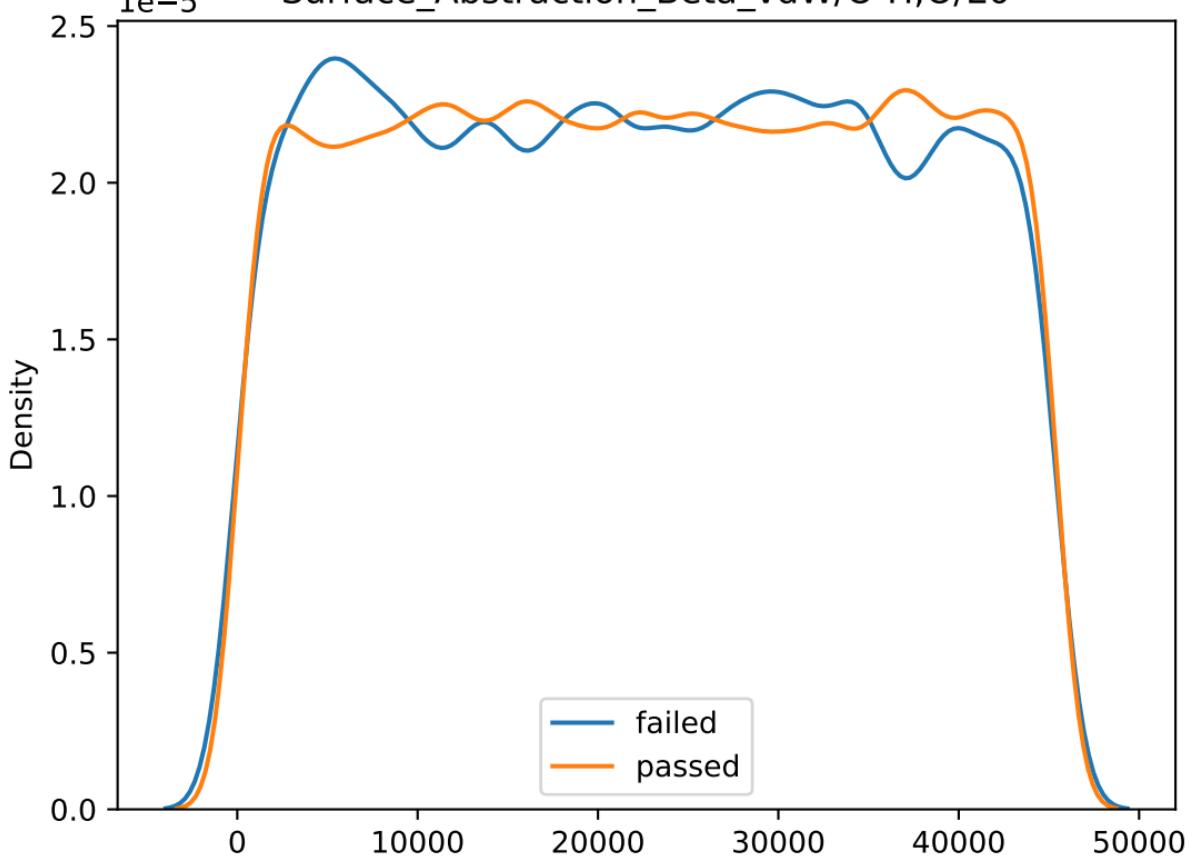


Surface_Abstraction_Beta_vdW/O-H;O/alpha

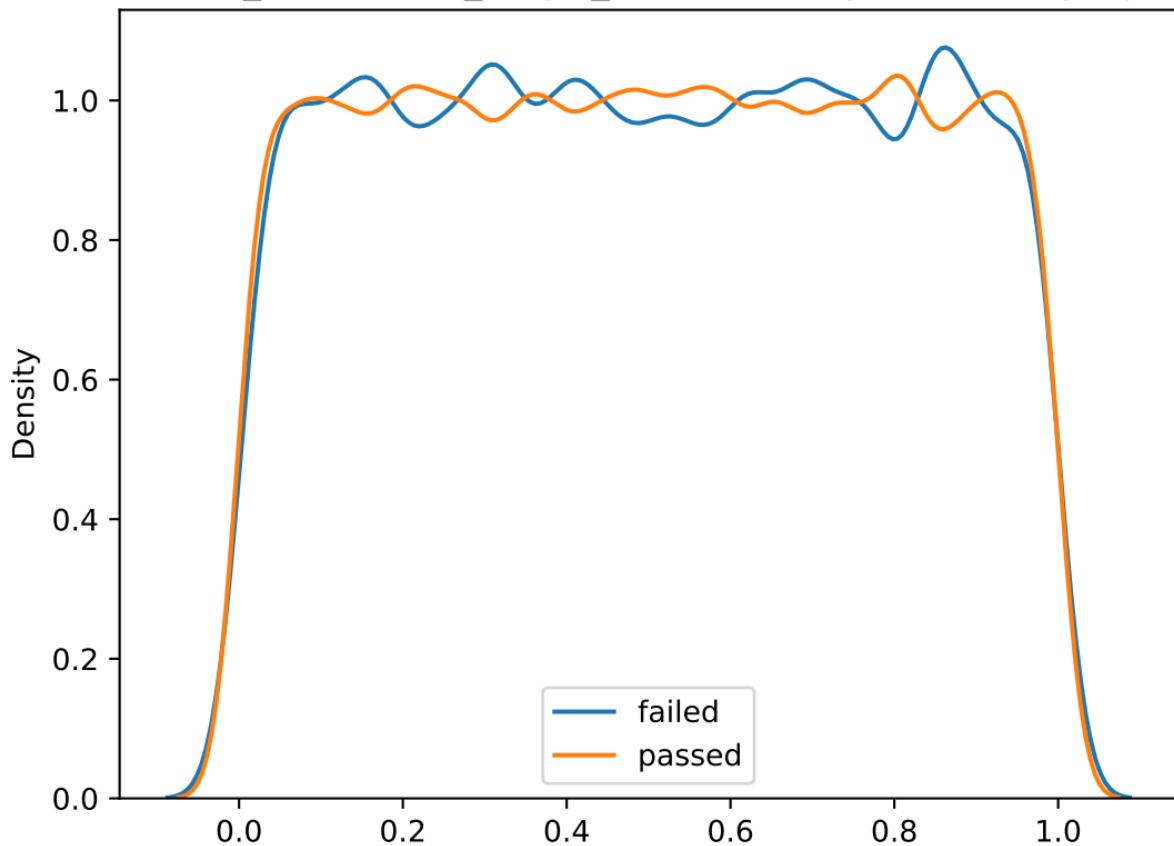




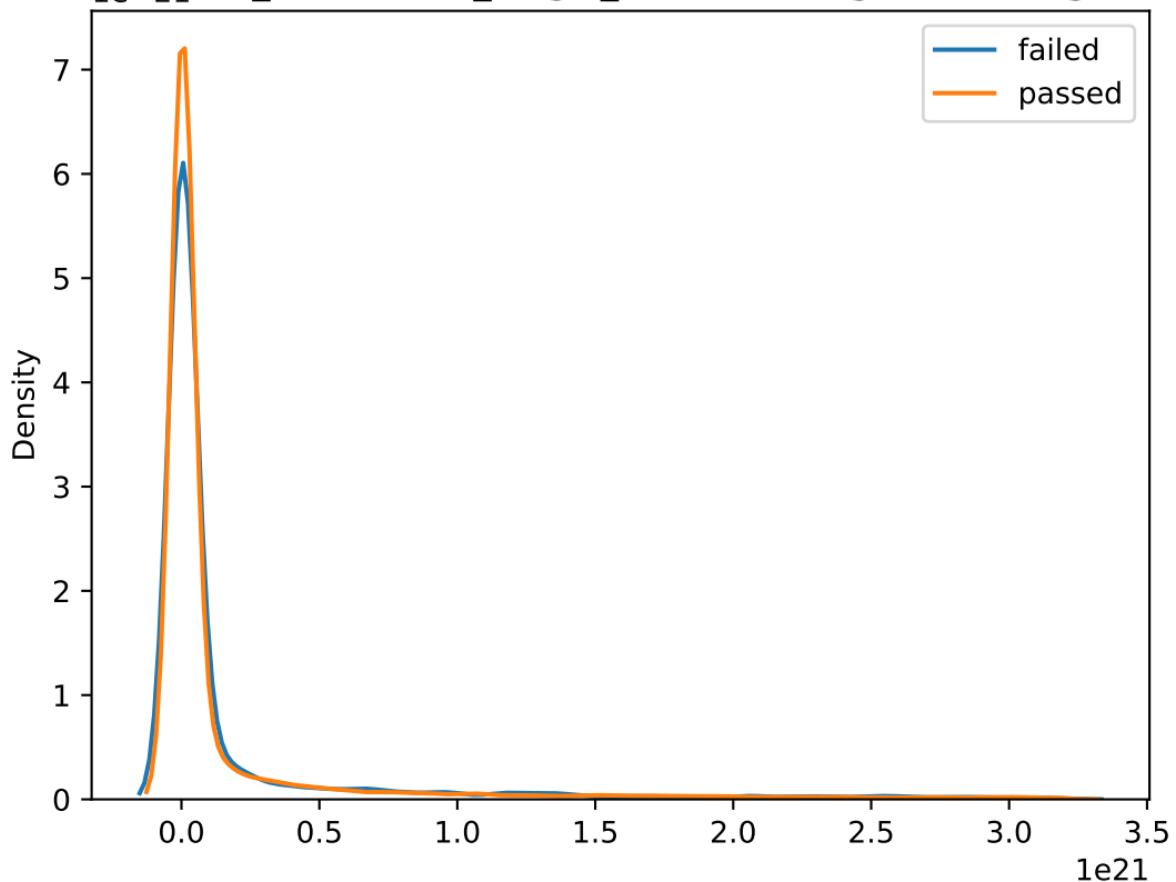
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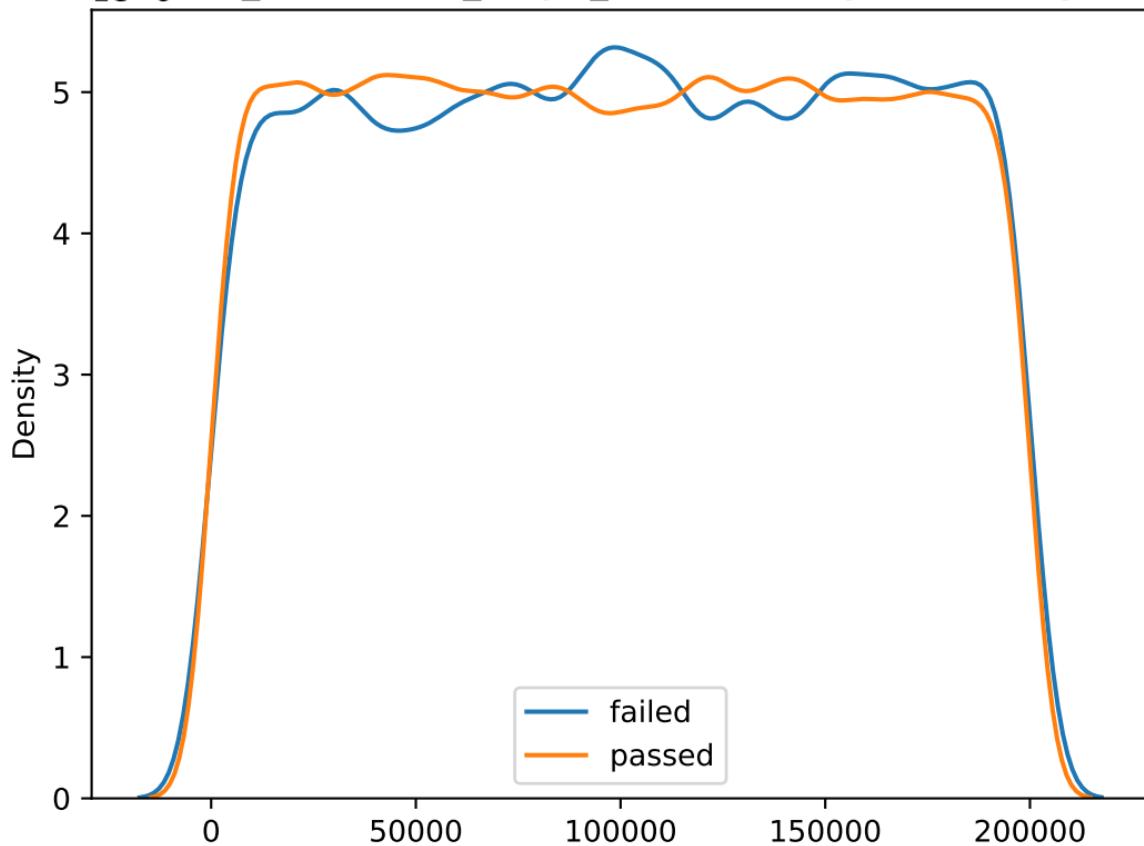
Surface_Abstraction_Single_vdW/Donating;Abstracting/alpha

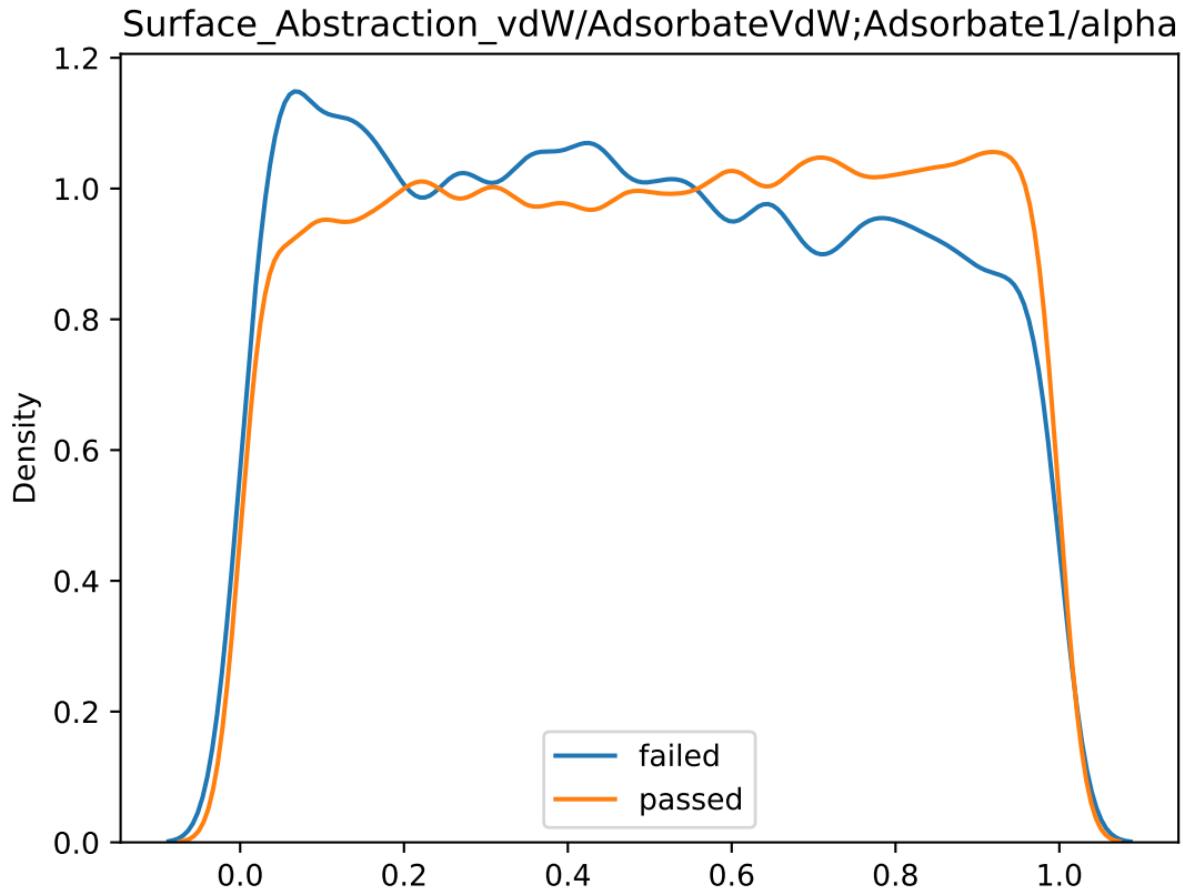


Surface_Abstraction_Single_vdW/Donating;Abstracting/A

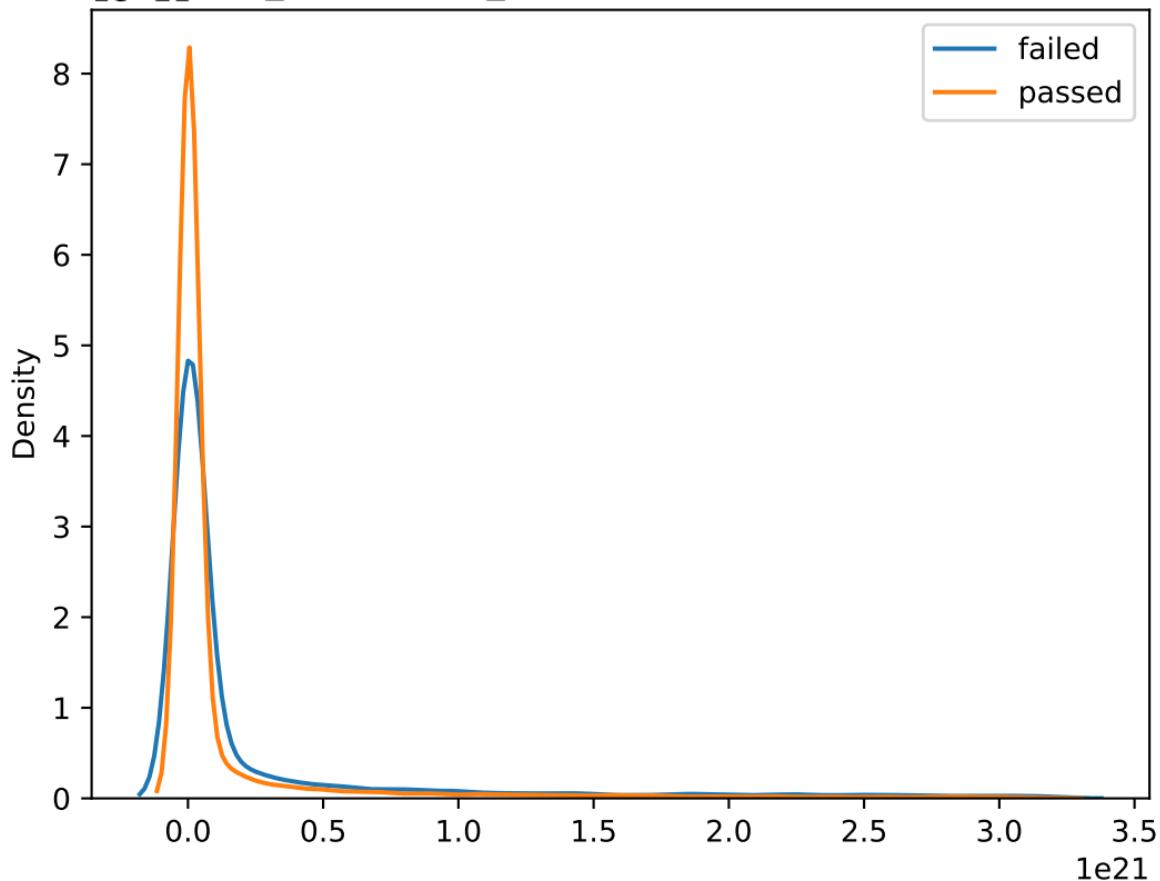


Surface_Abstraction_Single_vdW/Donating;Abstracting/E0

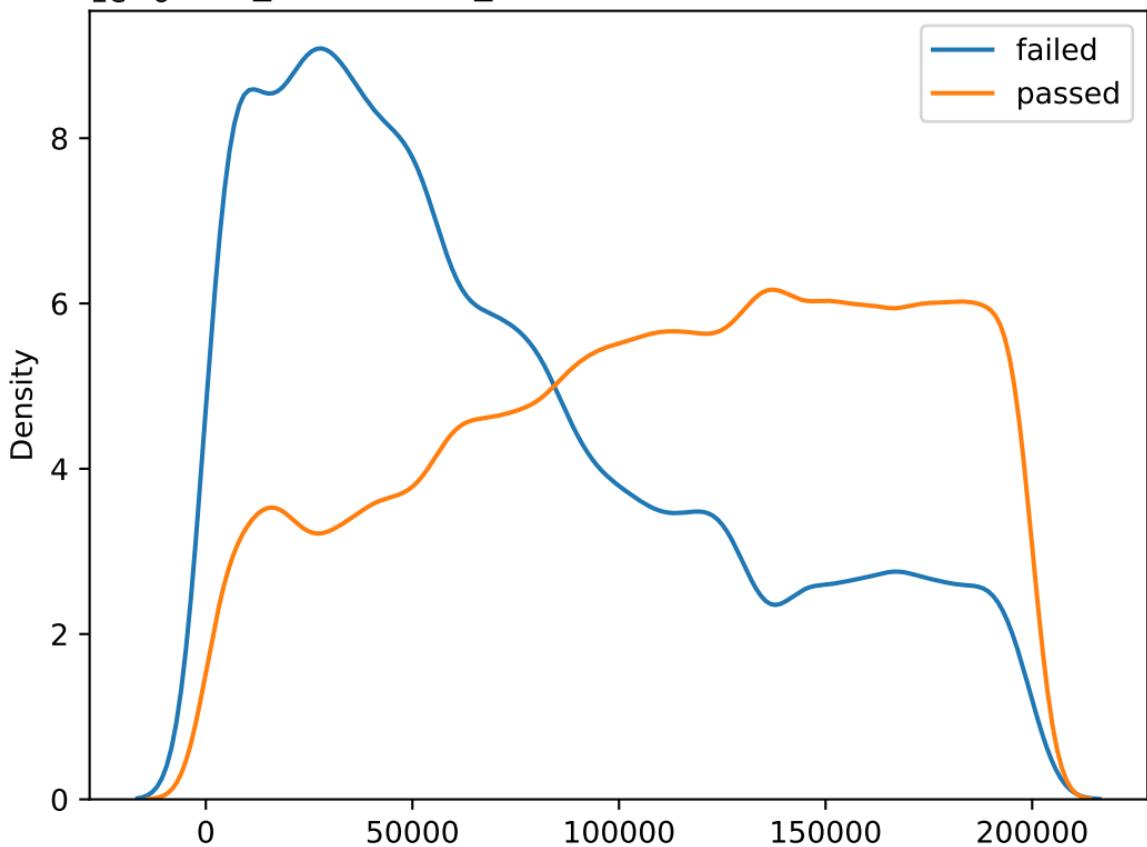




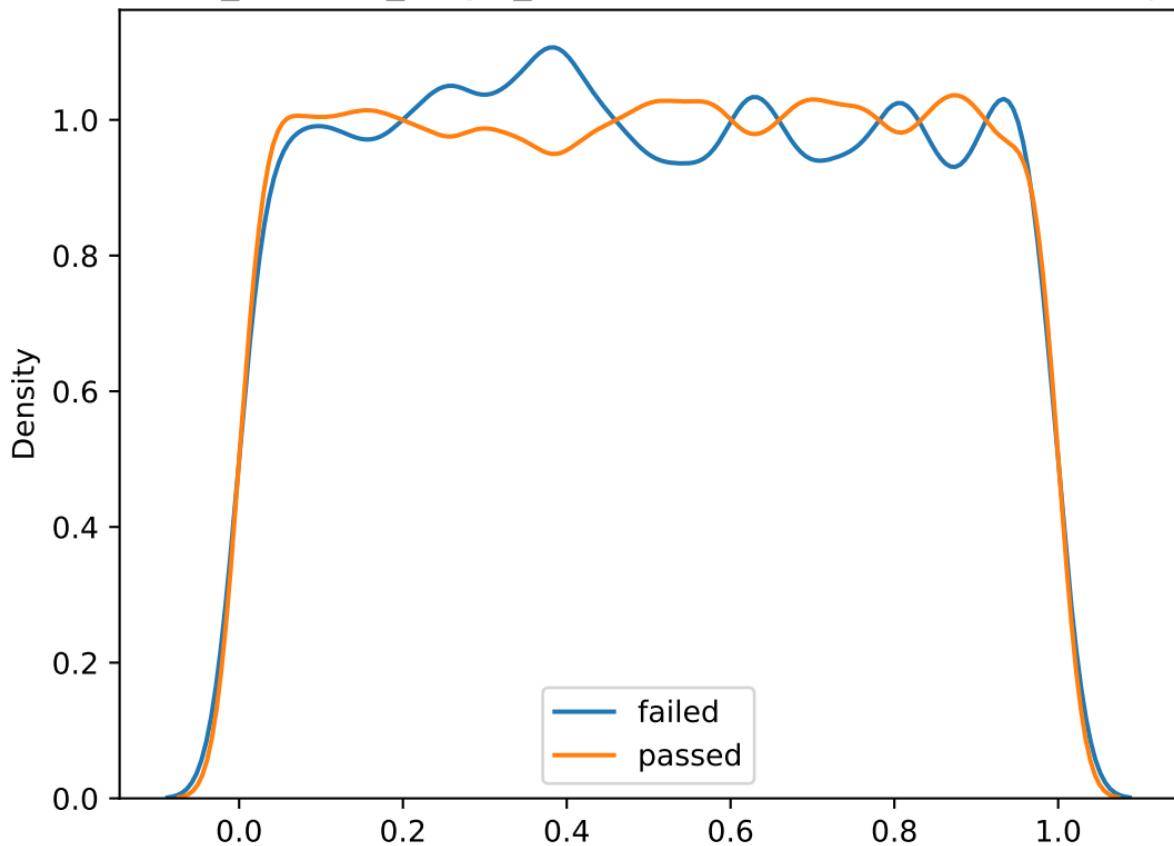
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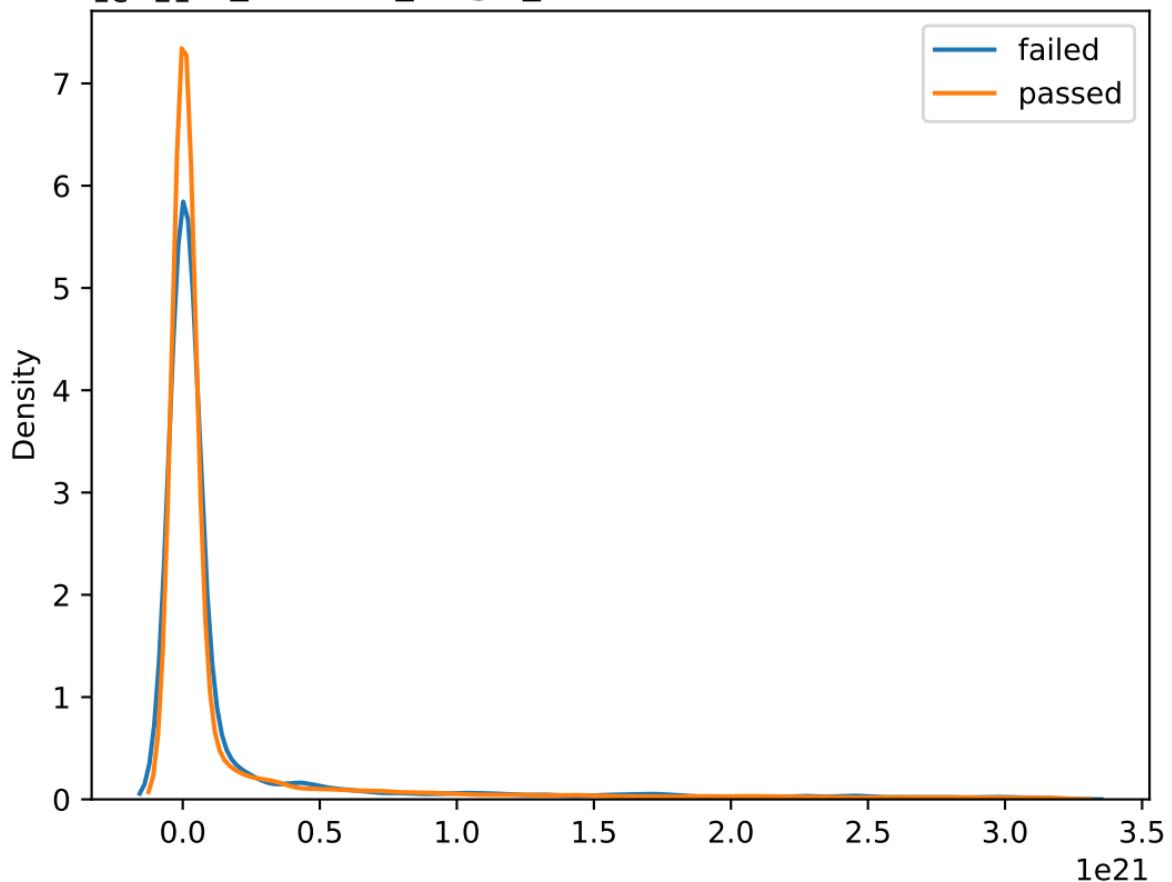
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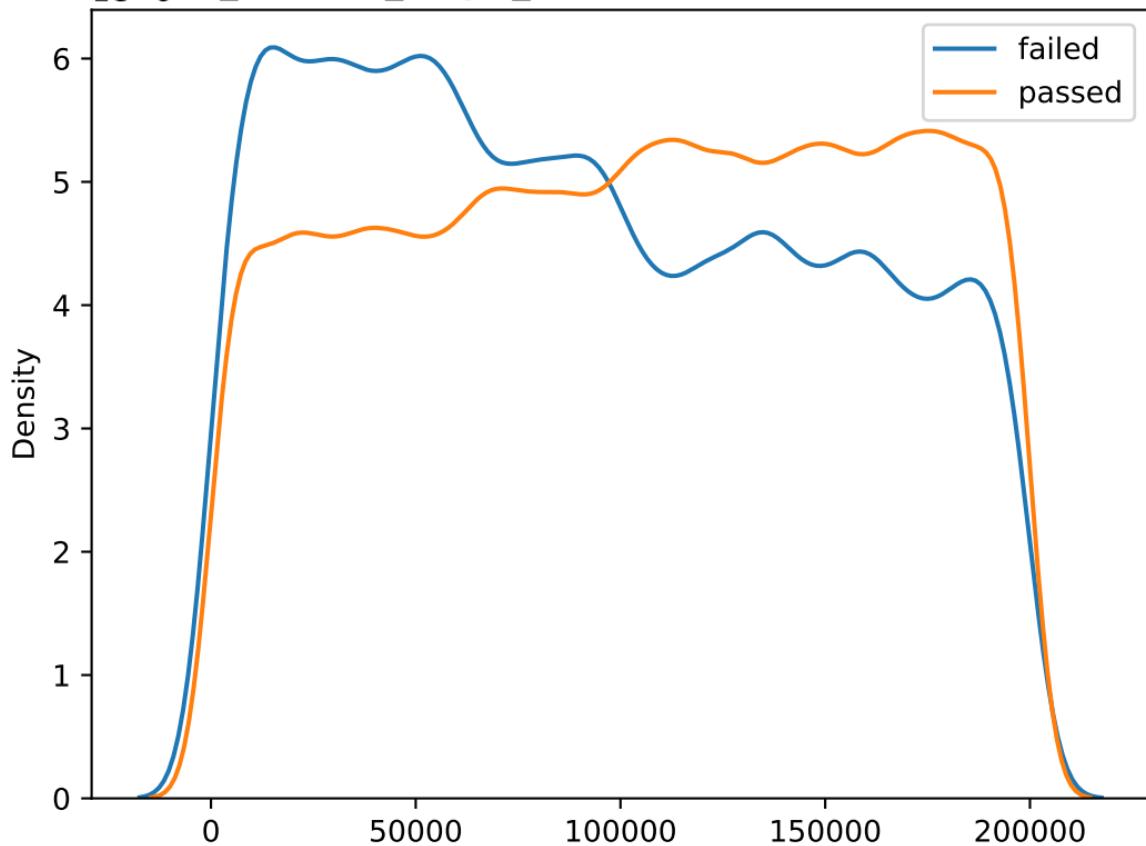
Surface_Addition_Single_vdW/AdsorbateVdW;Adsorbate1/alpha



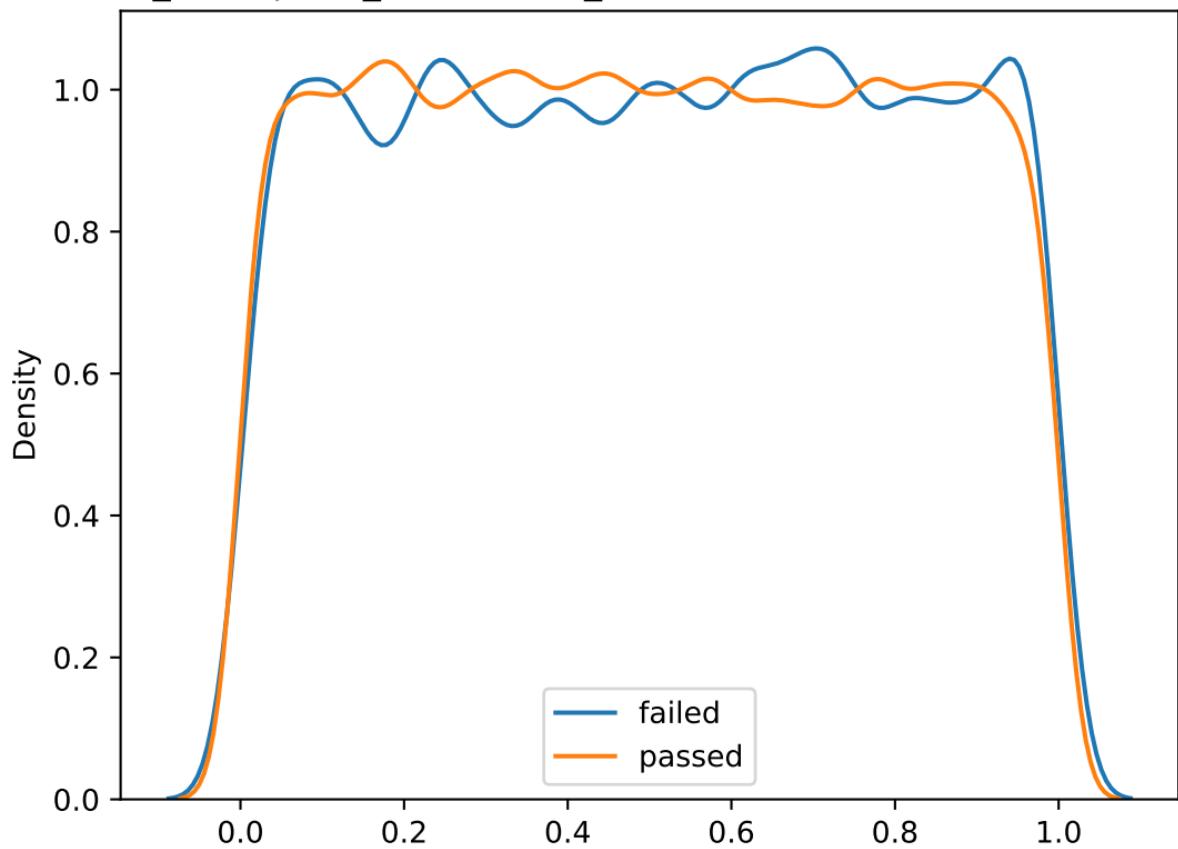
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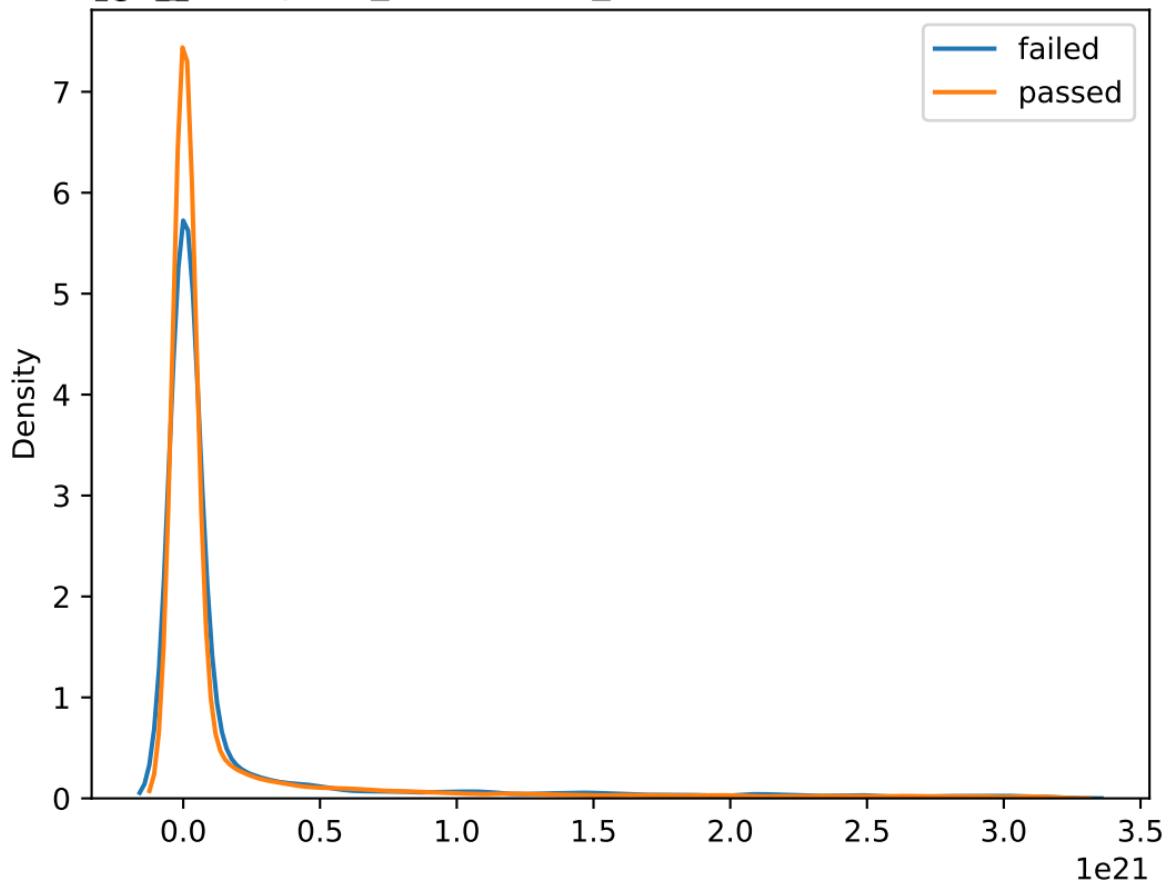
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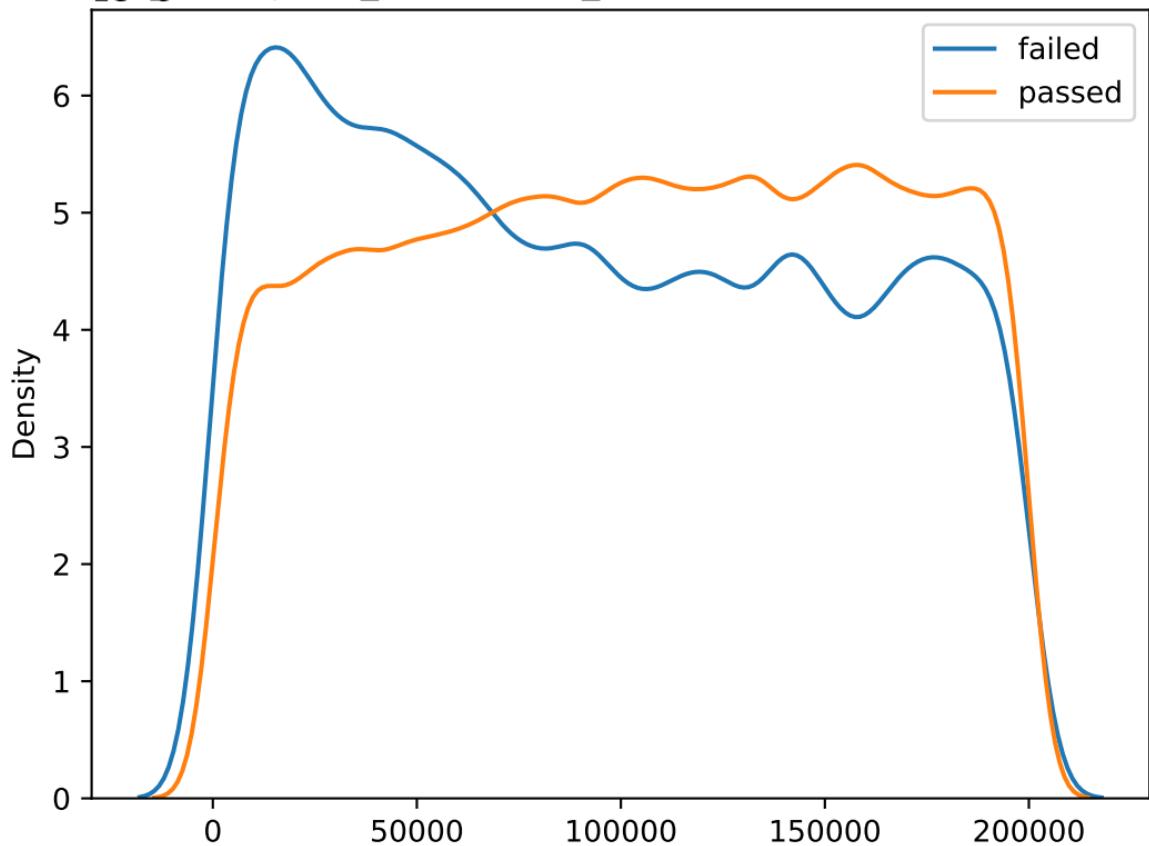
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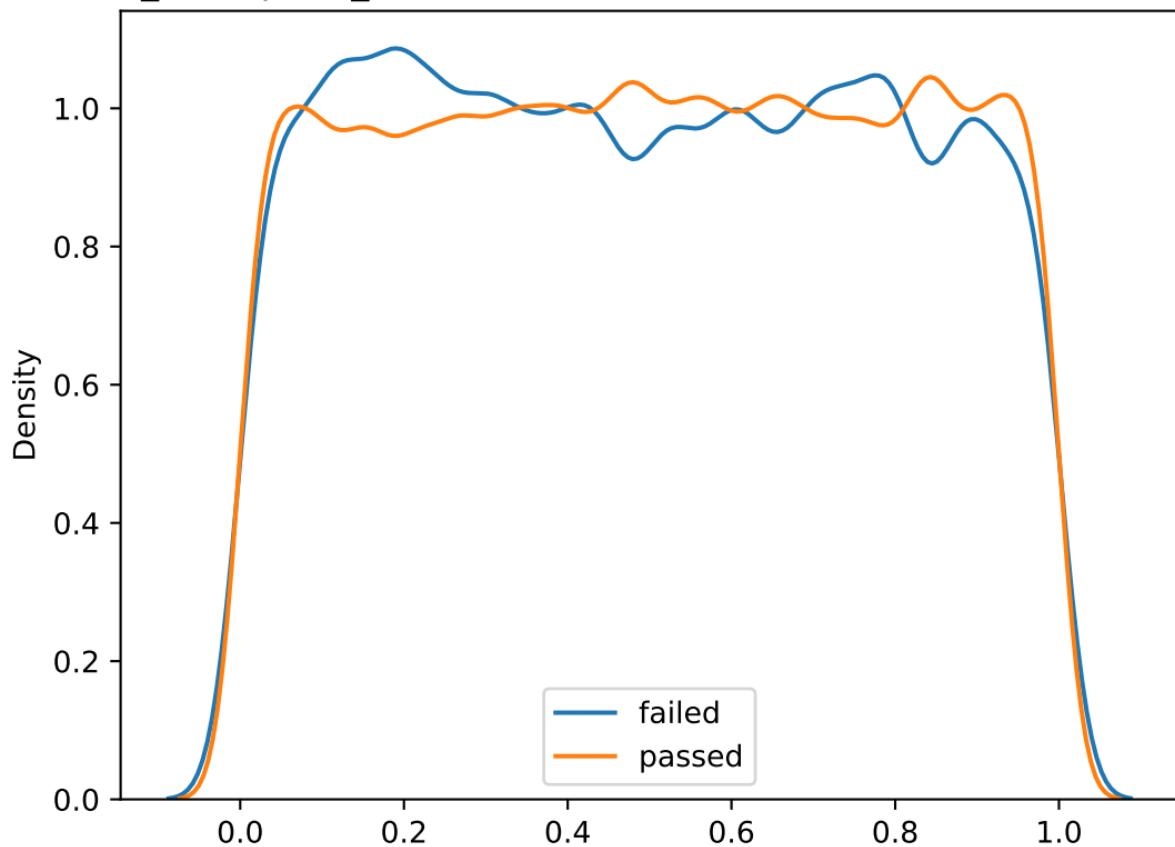
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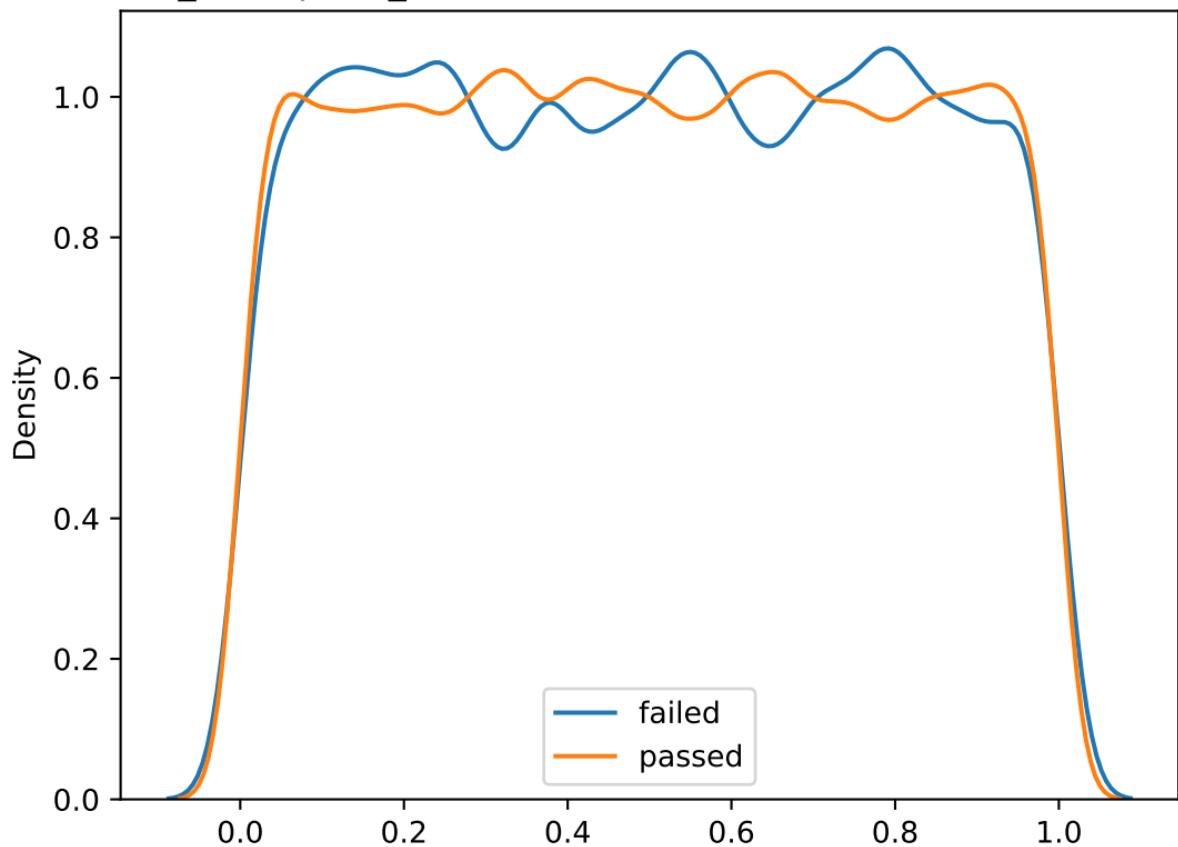
Surface₆Adsorption_Abstraction_vdW/AdsorbateVdW;Adsorbate1/E0



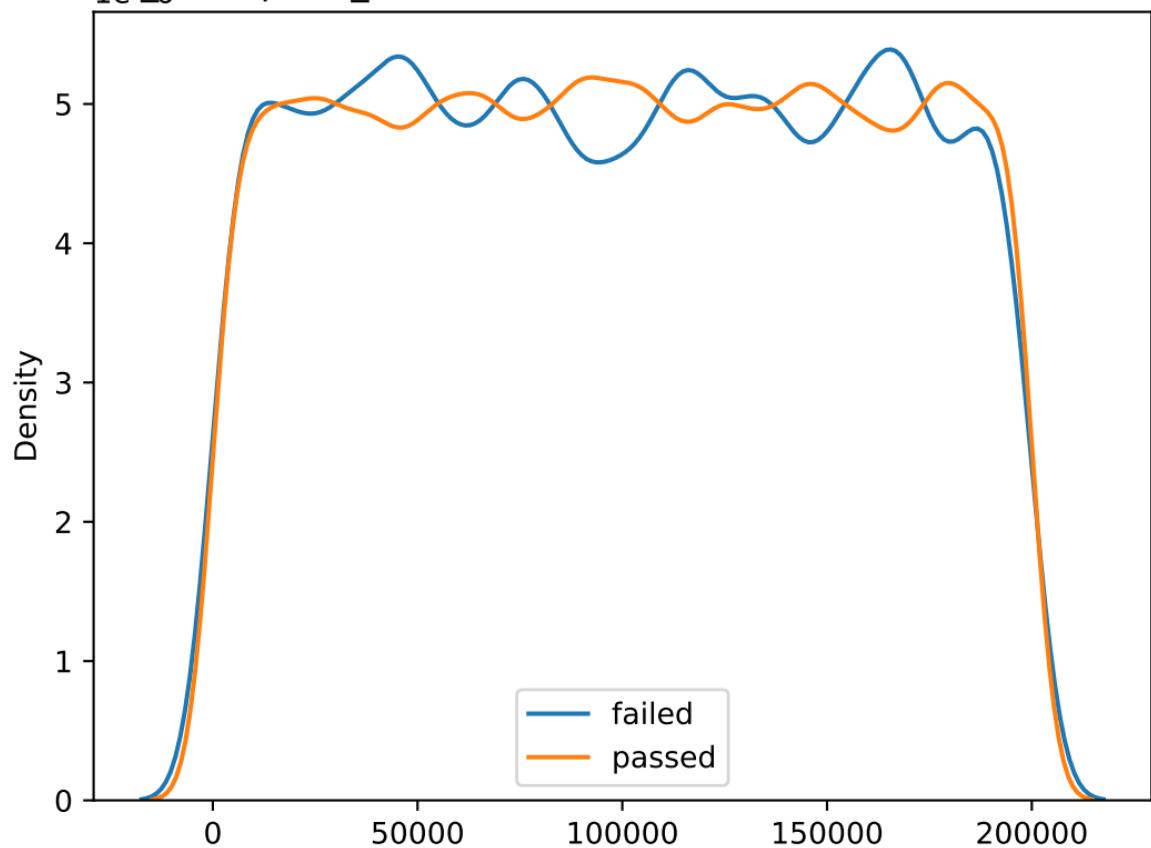
Surface_Adsorption_Bidentate/Adsorbate;VacantSite1;VacantSite2/alpha



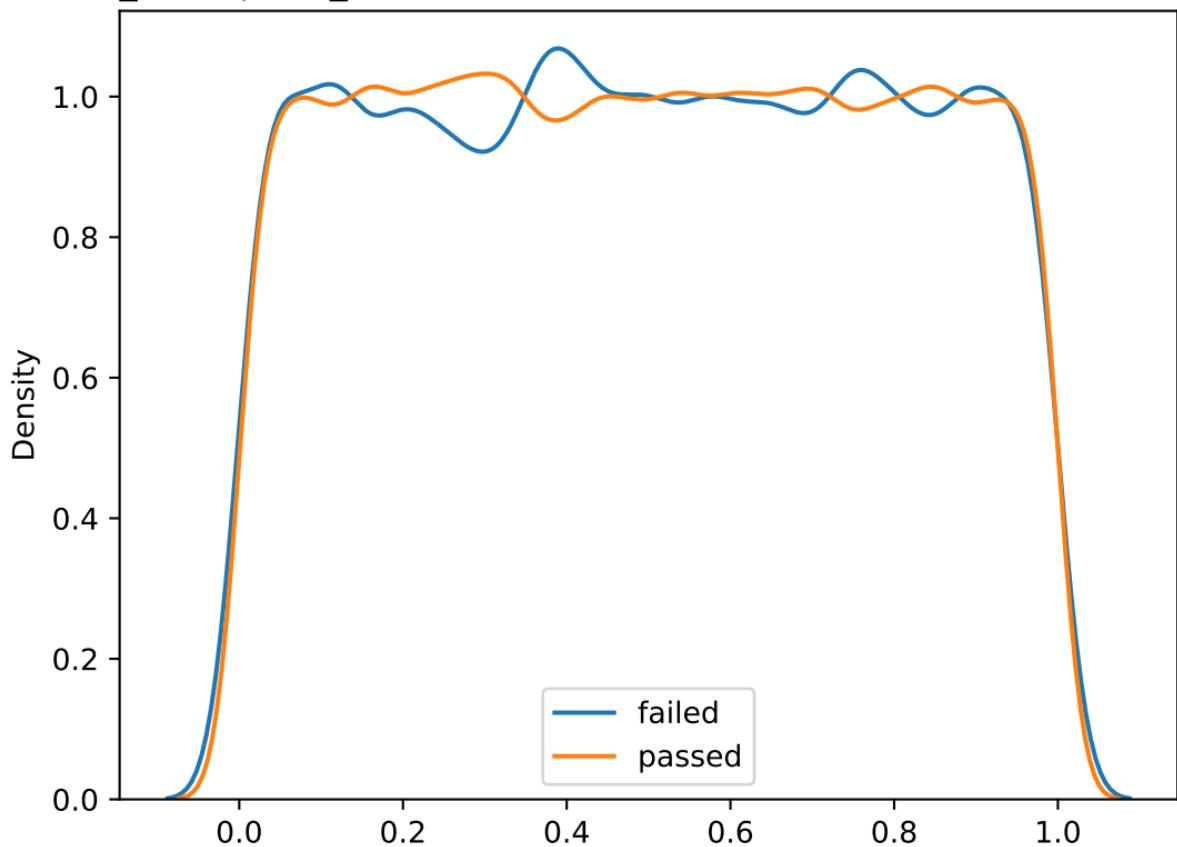
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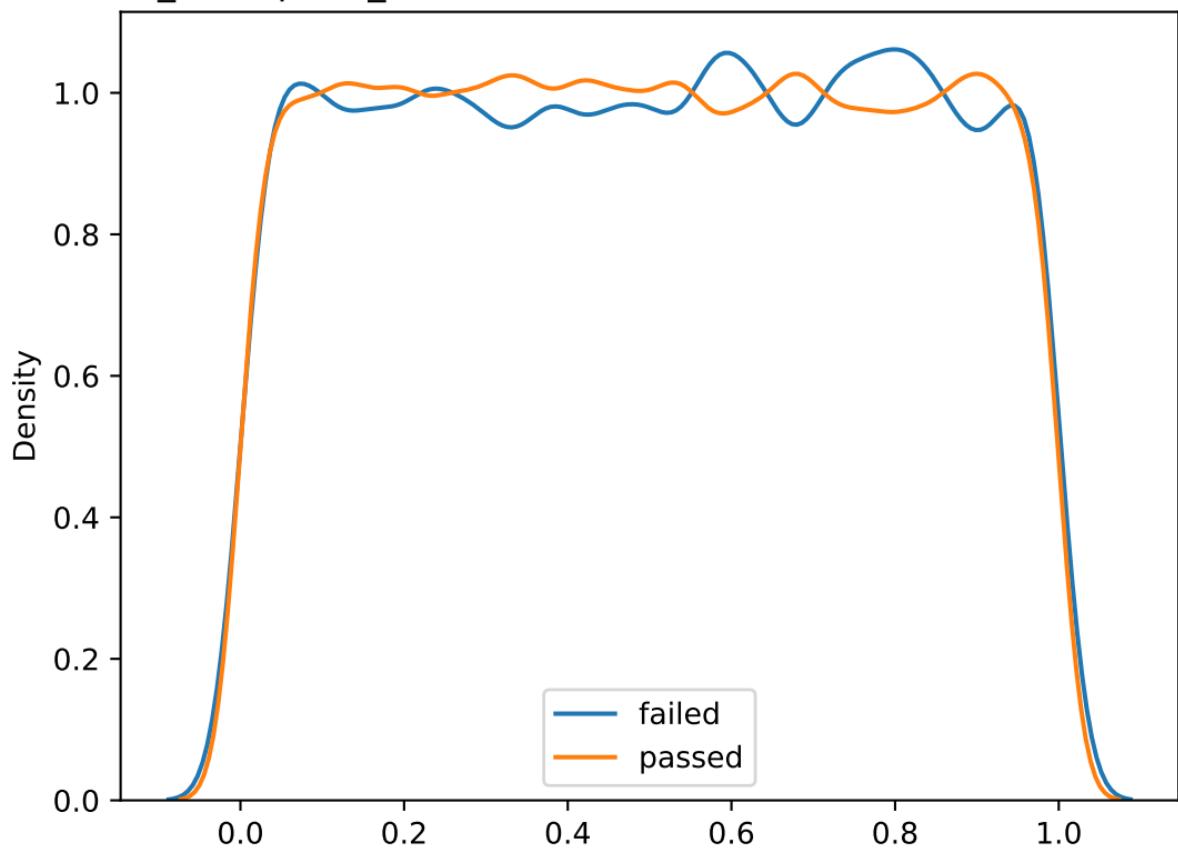
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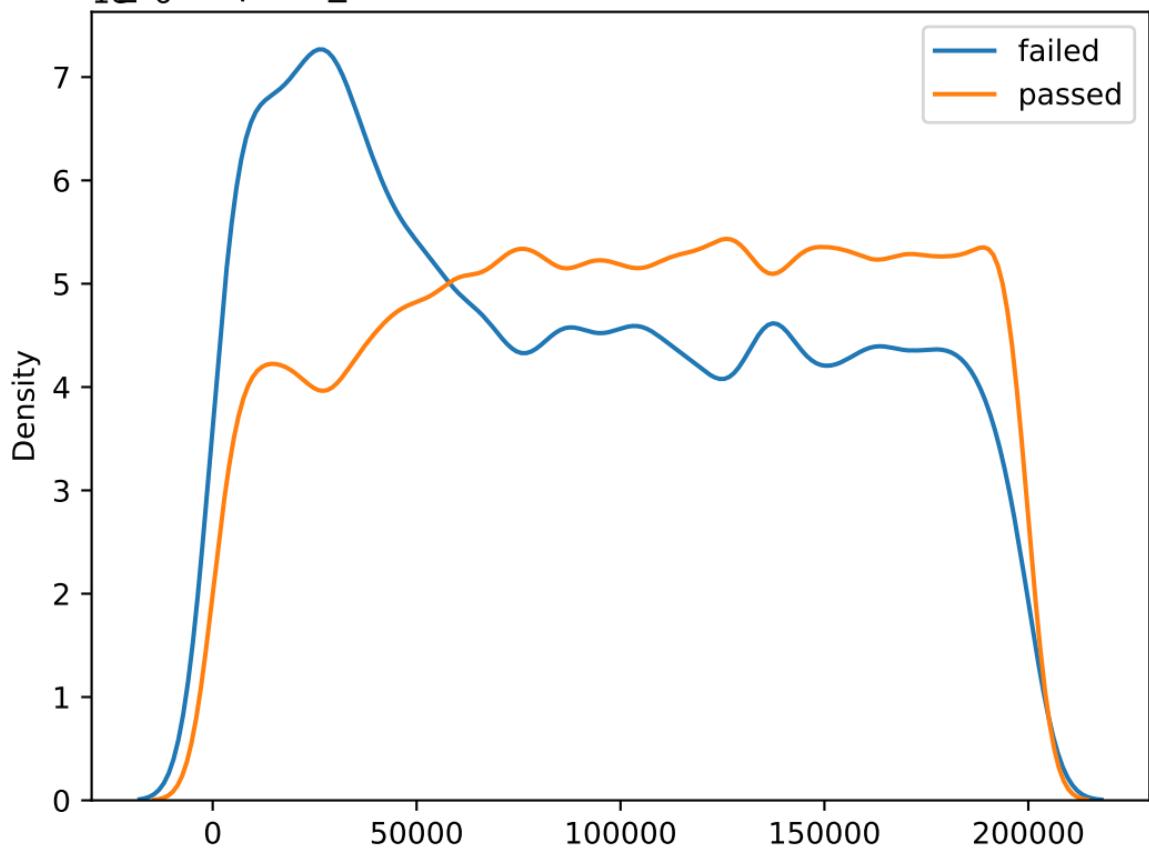
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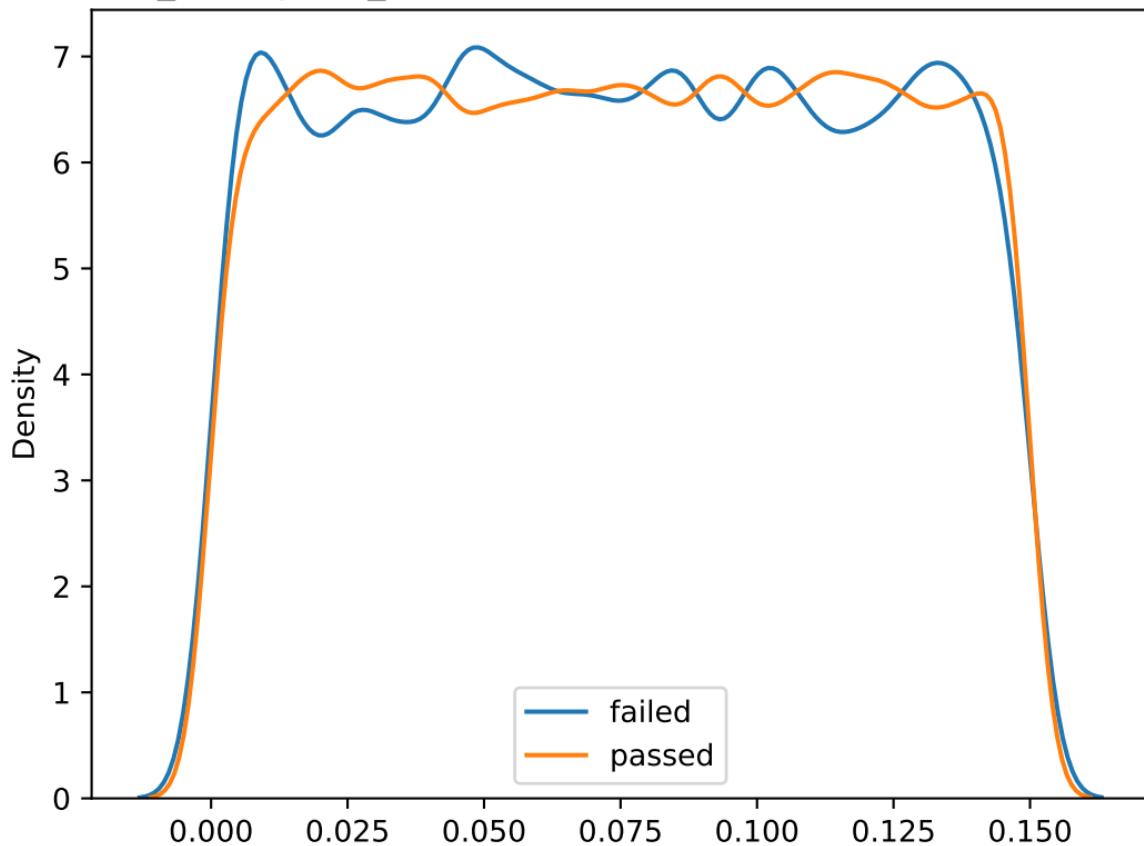
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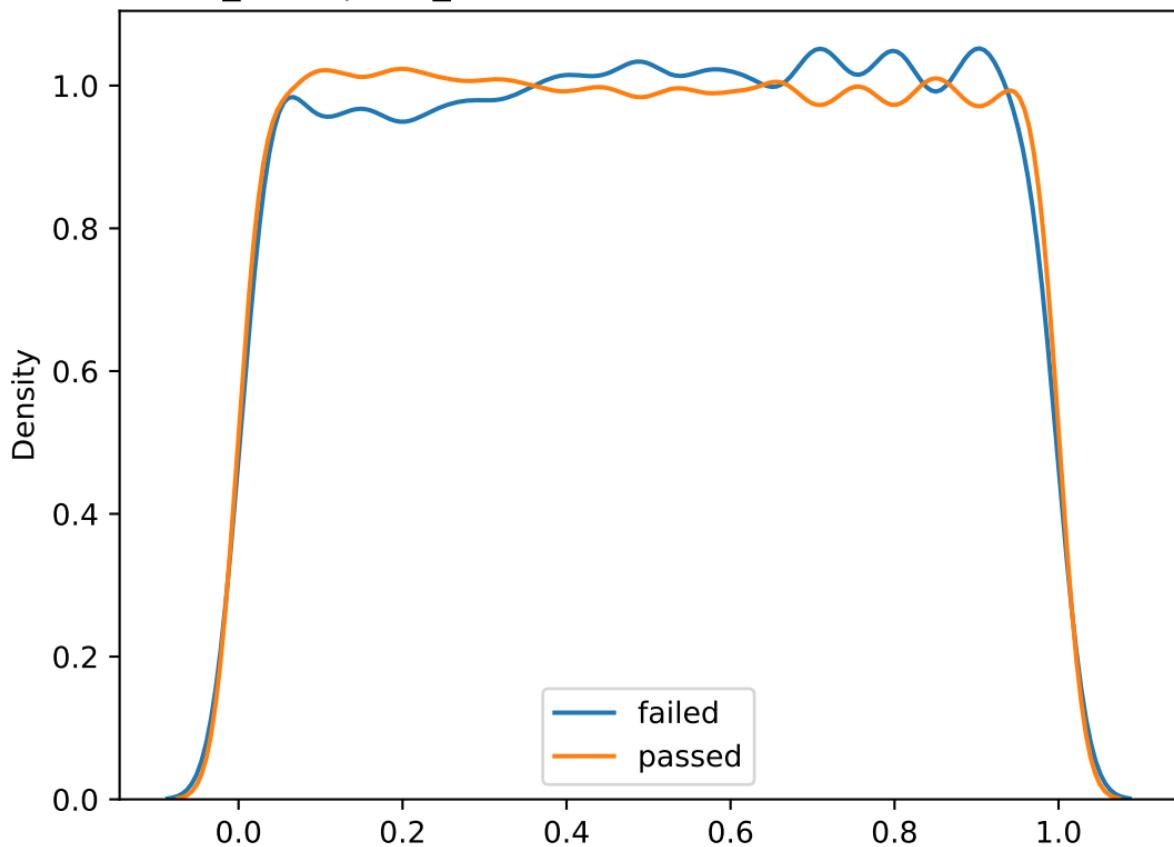
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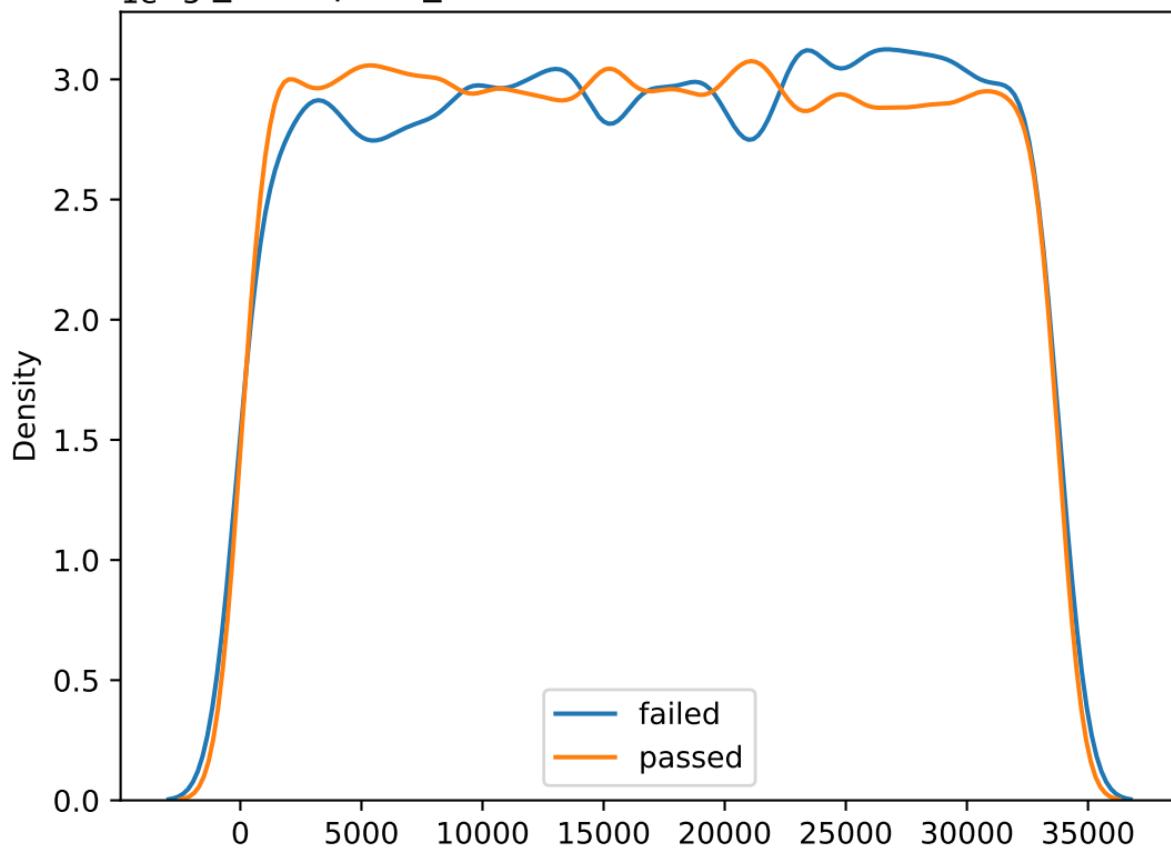
Surface_Adsorption_Dissociative/H2;VacantSite1;VacantSite2/alpha



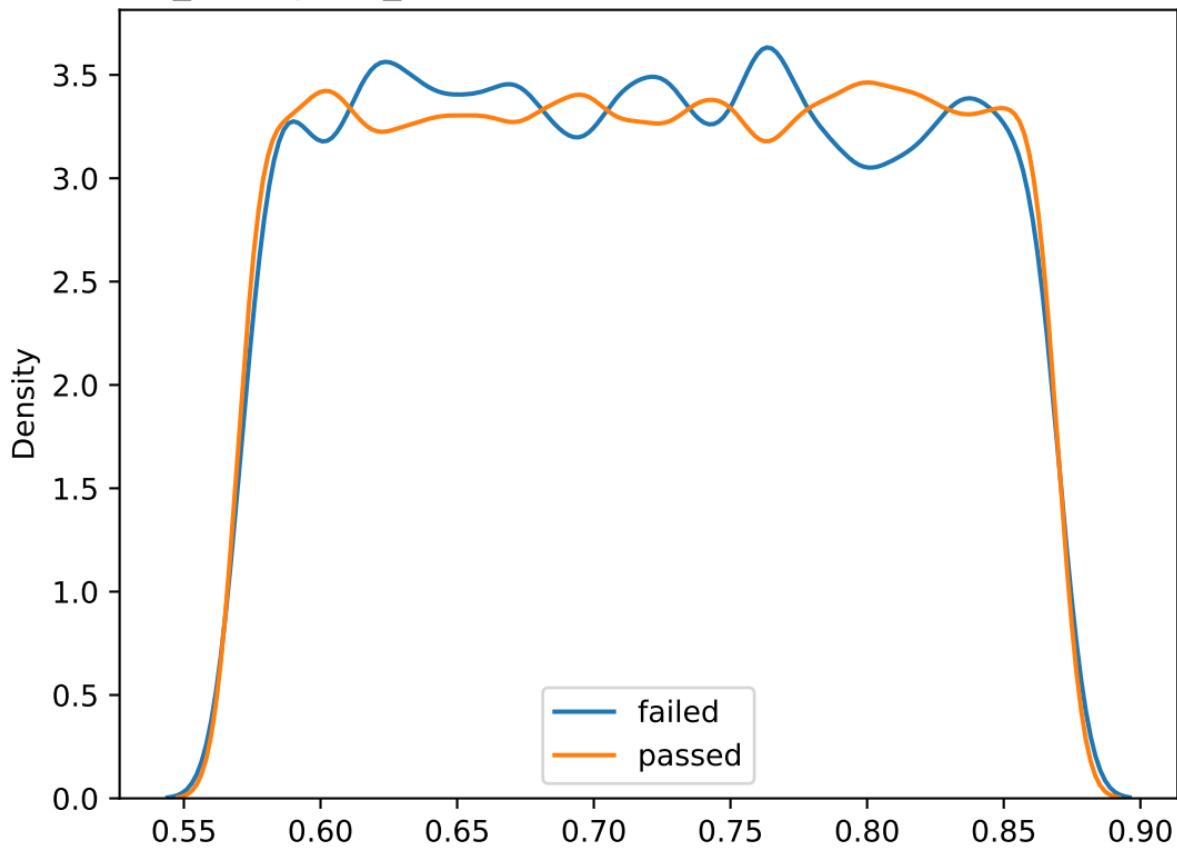
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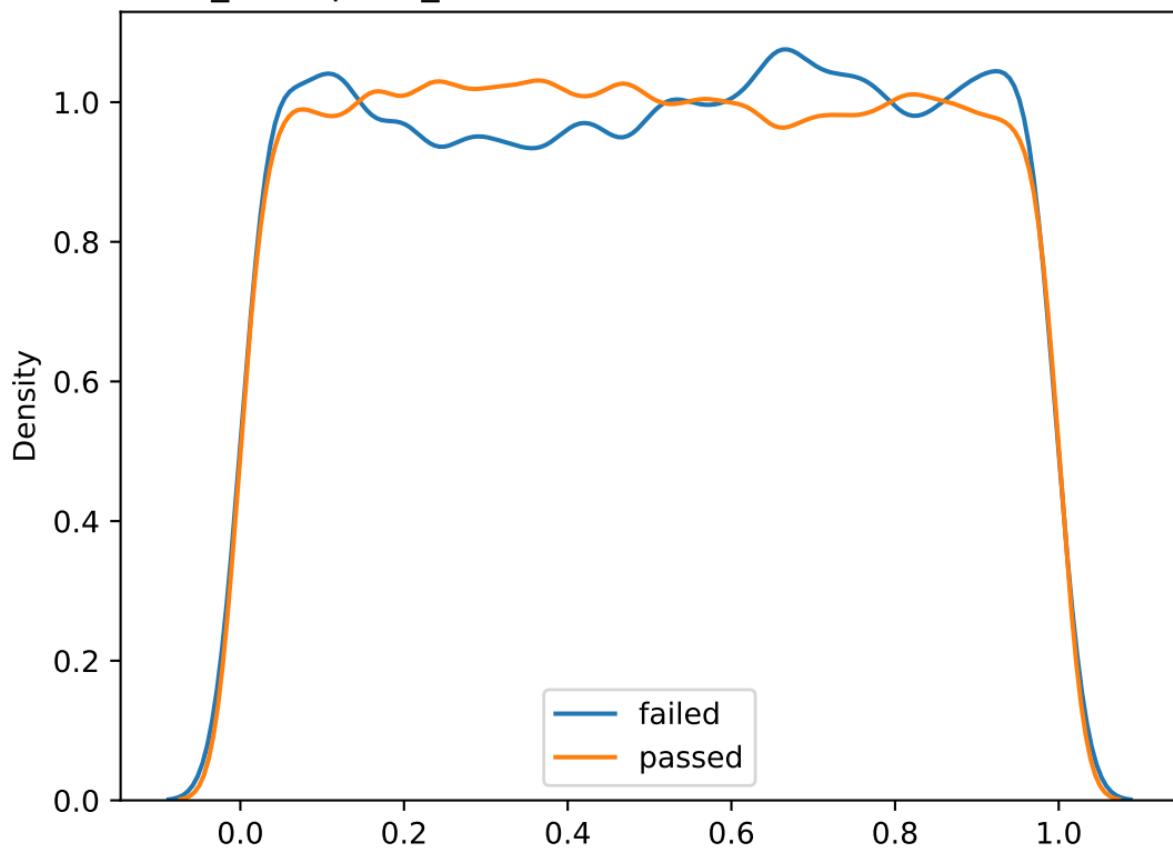
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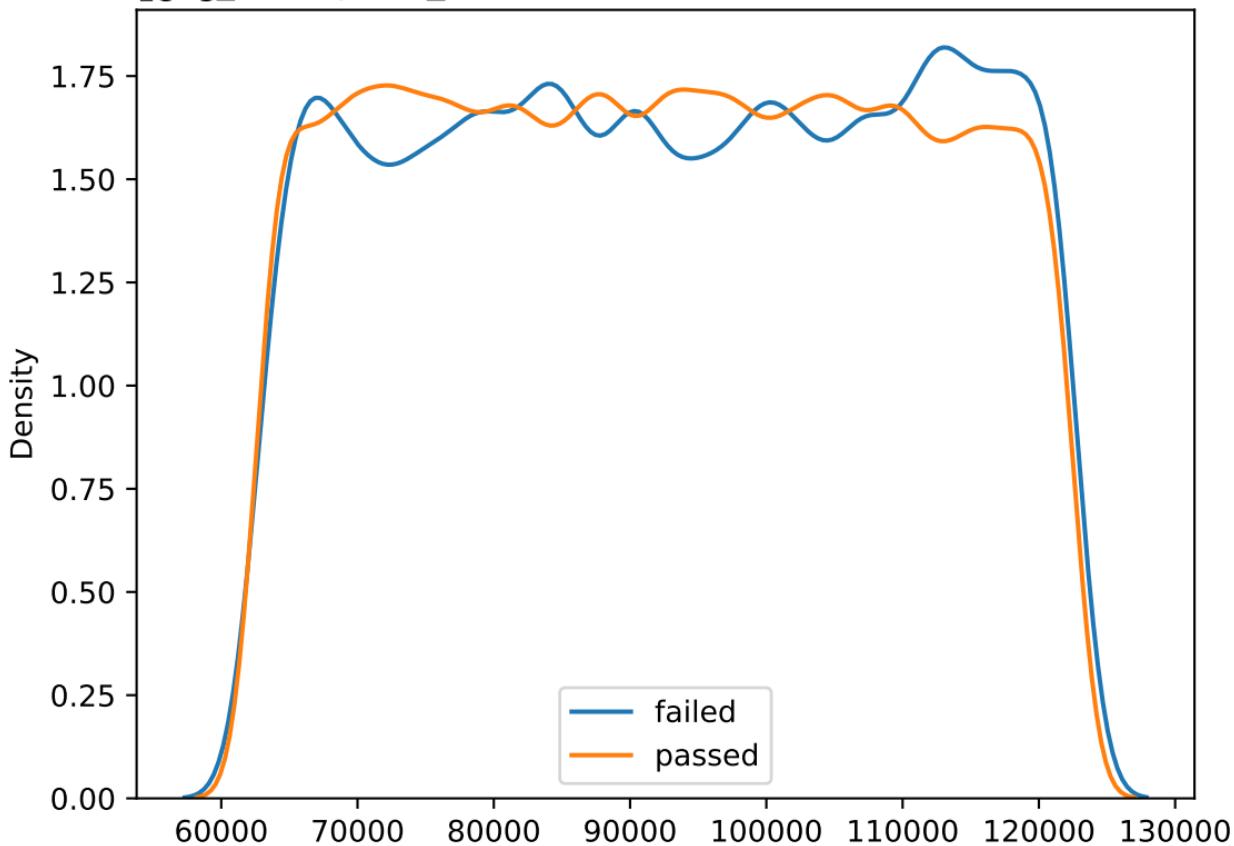
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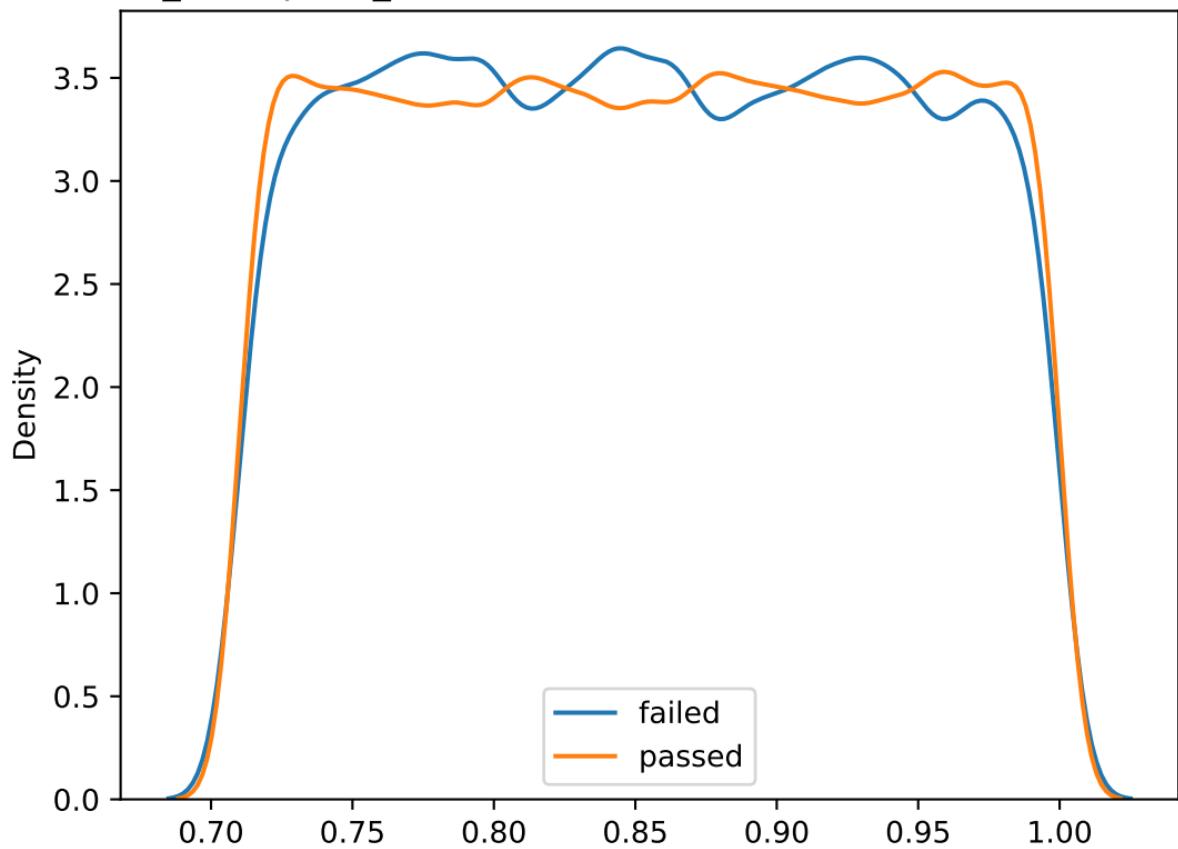
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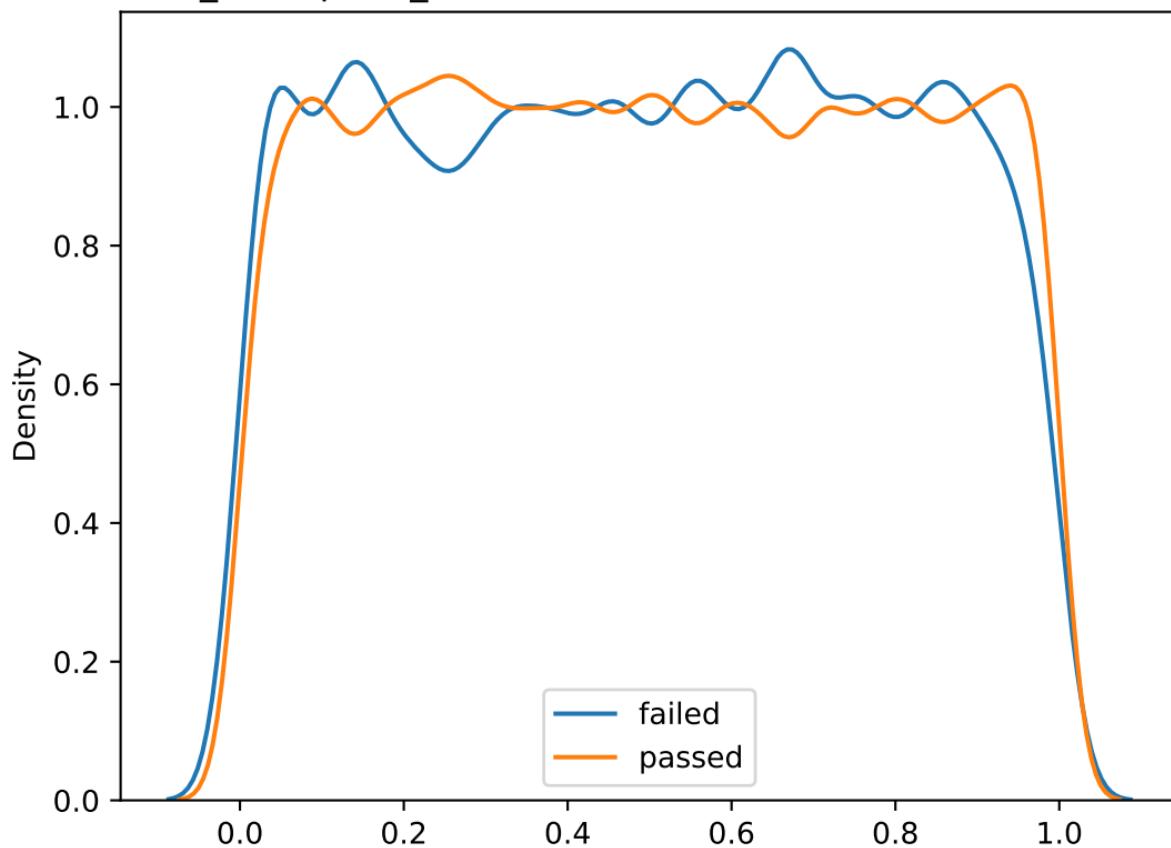
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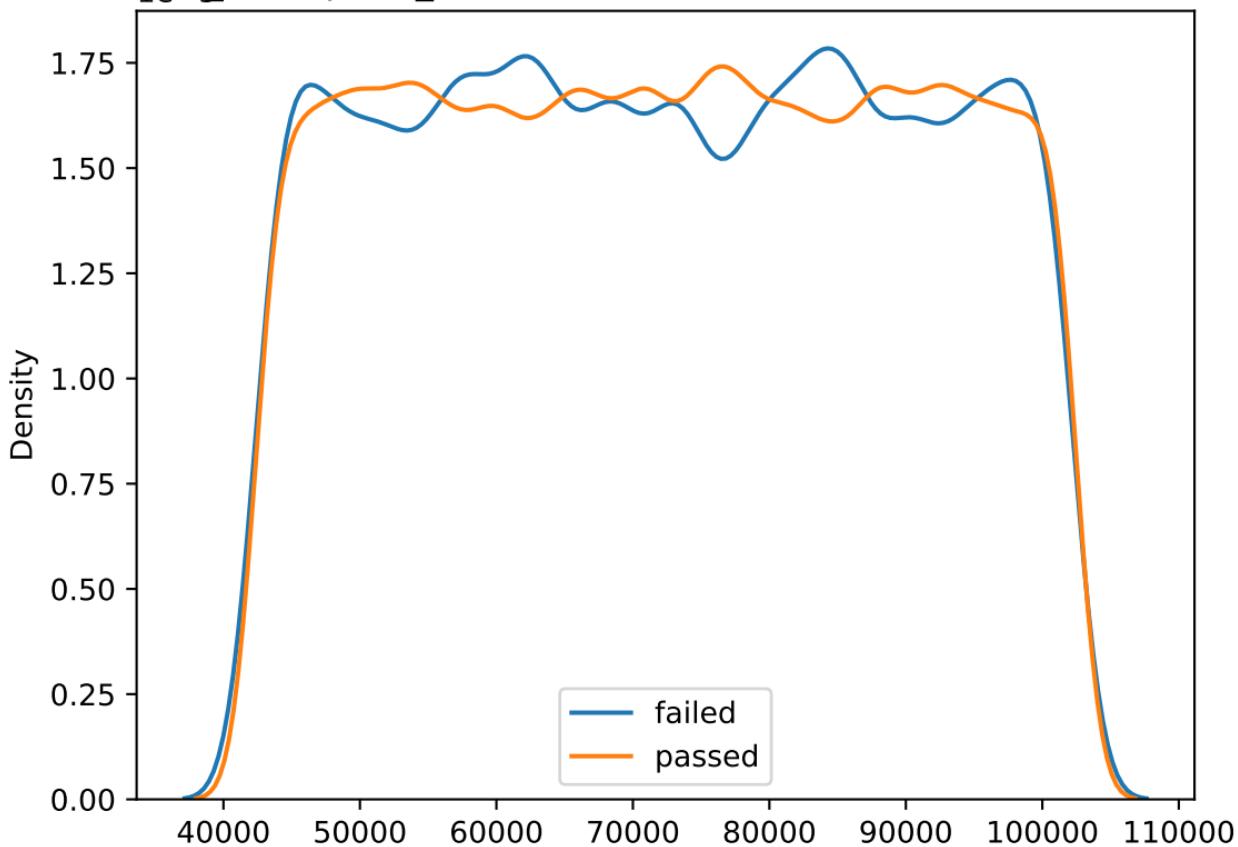
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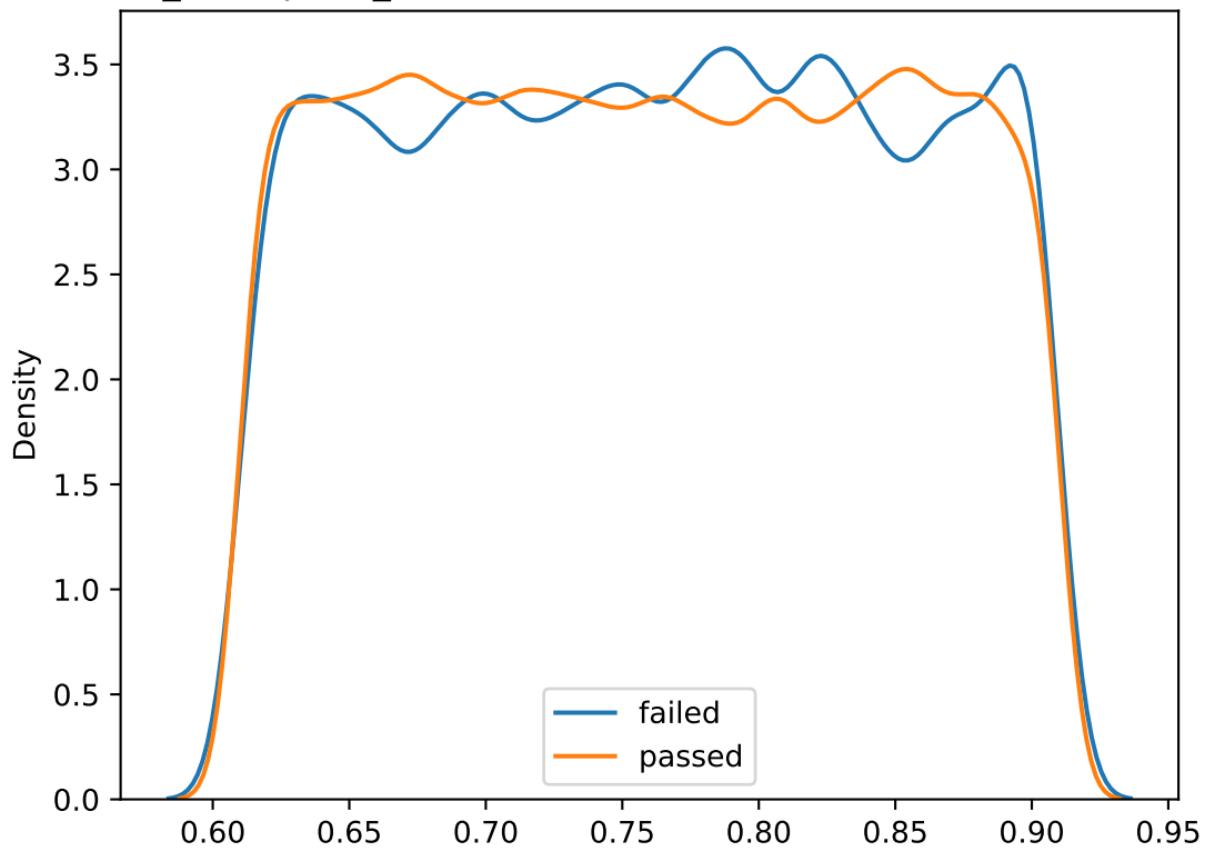
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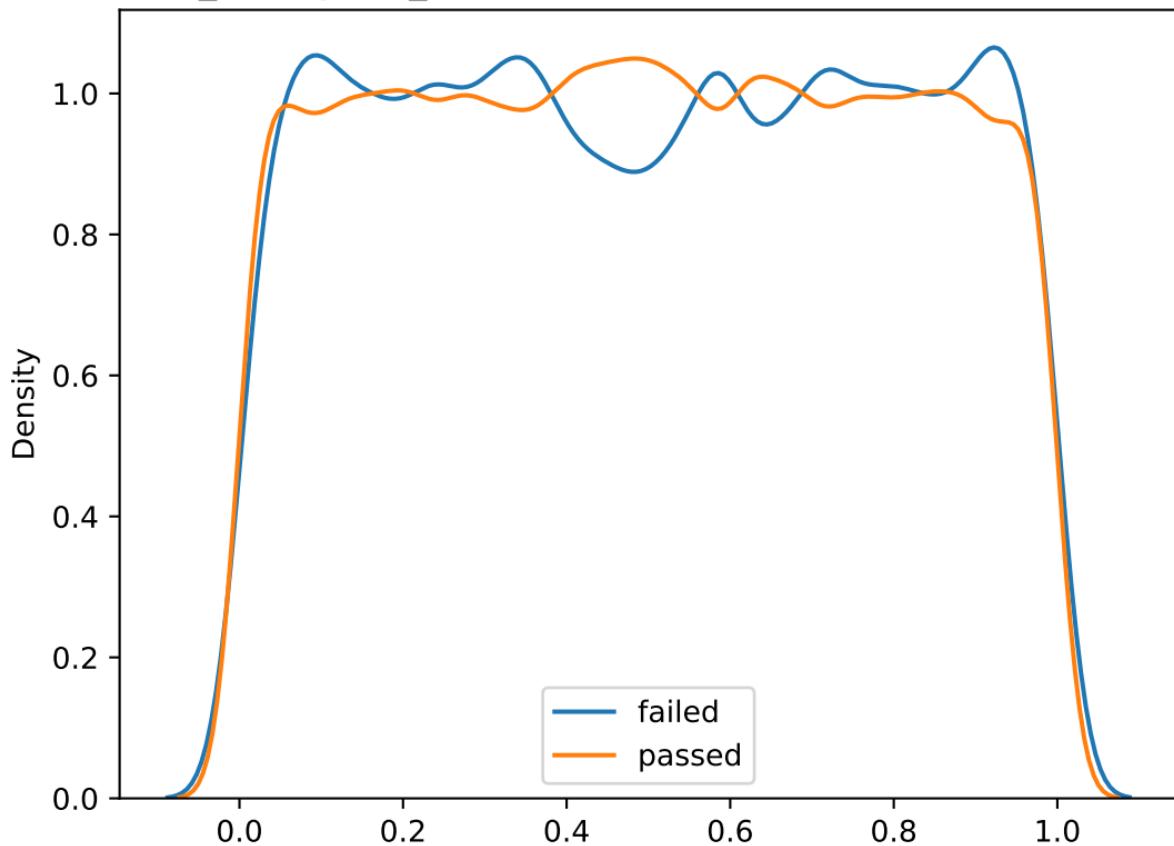
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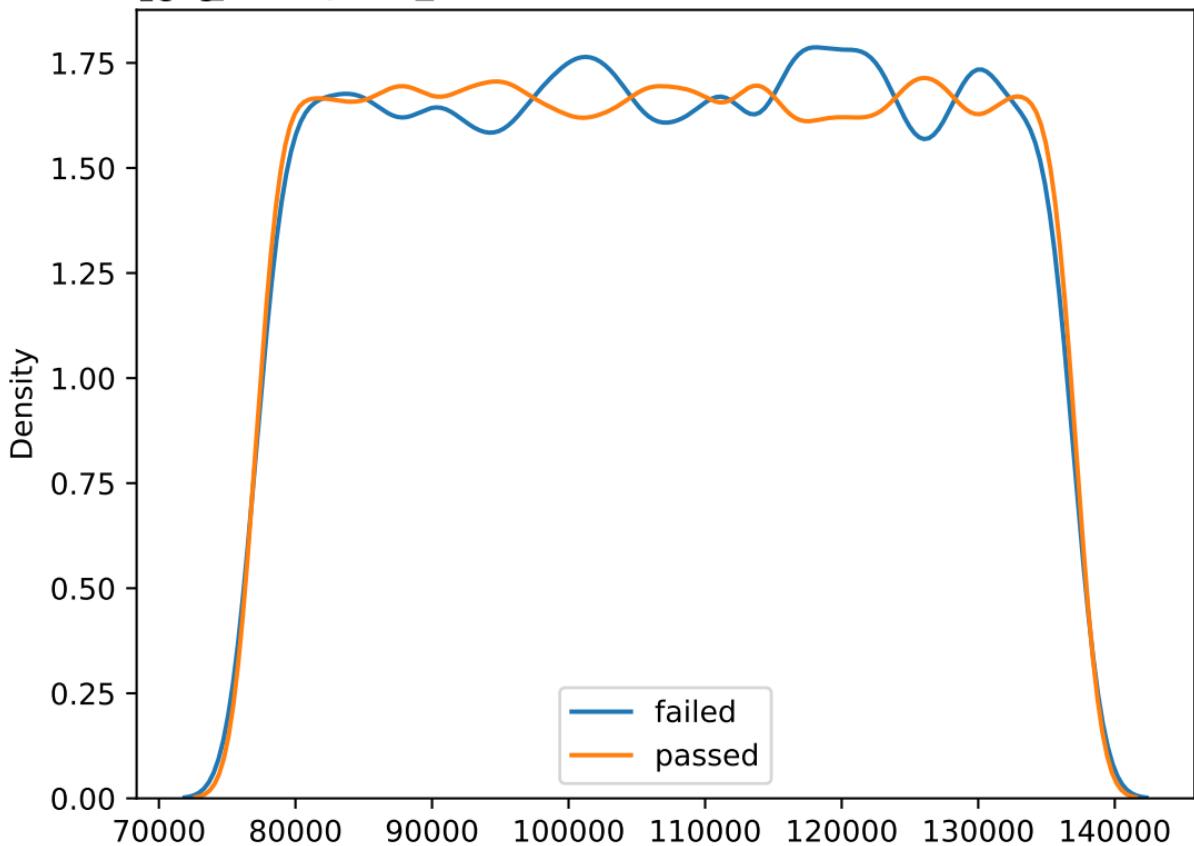
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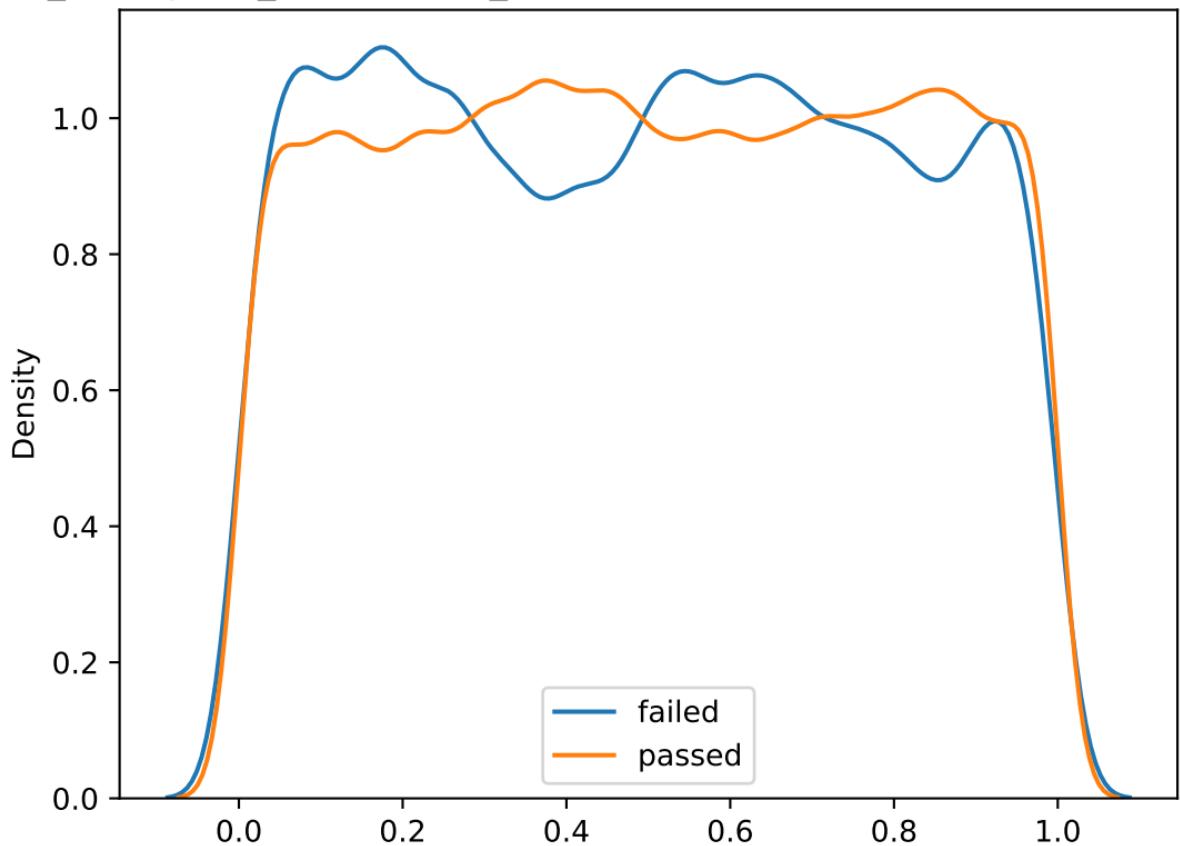
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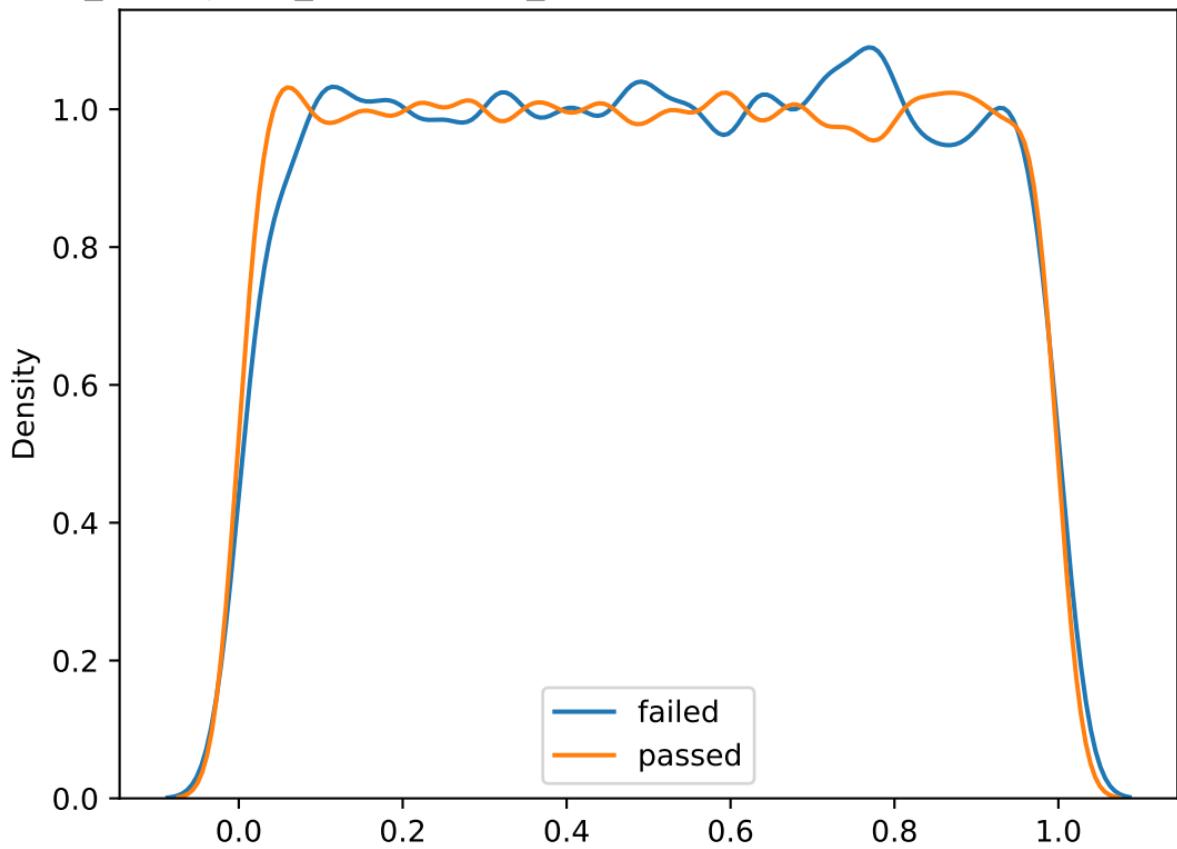
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Pe_5



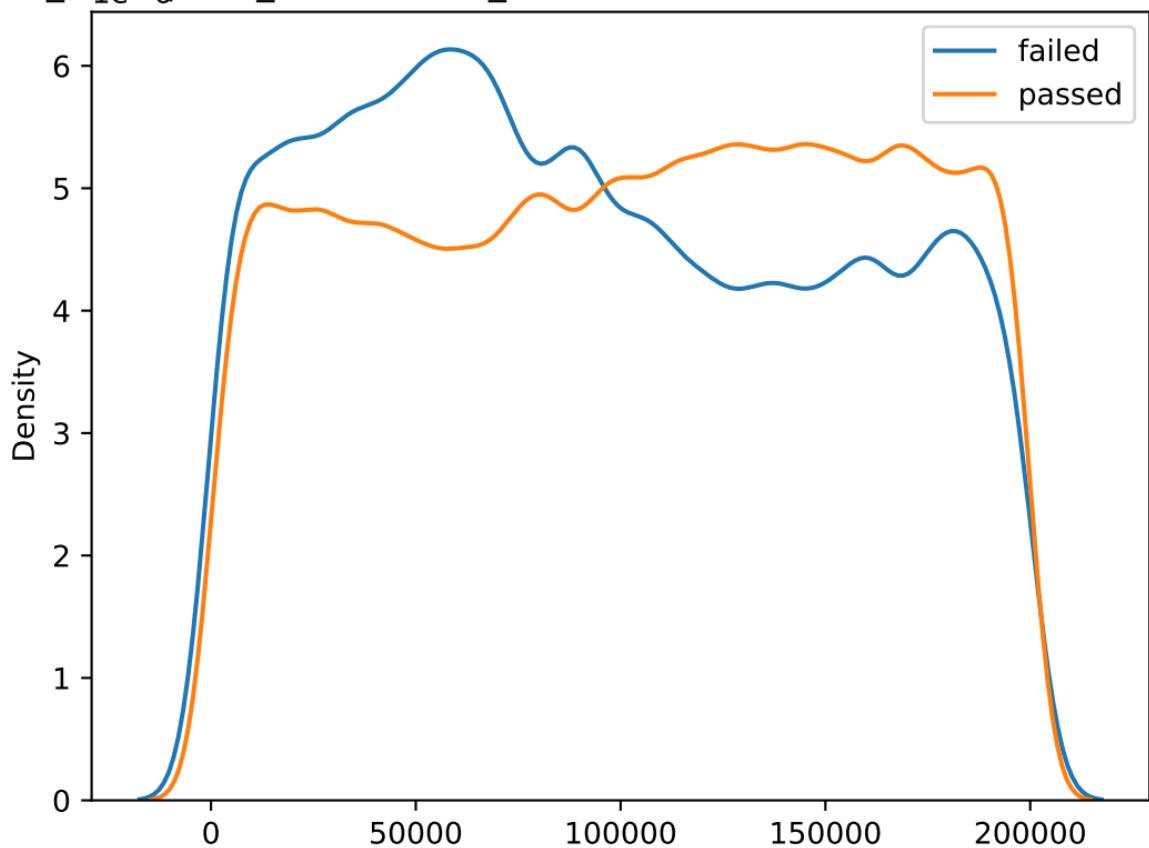
surface_Adsorption_Dissociative_Double/Adsorbate;VacantSite1;VacantSite2/a



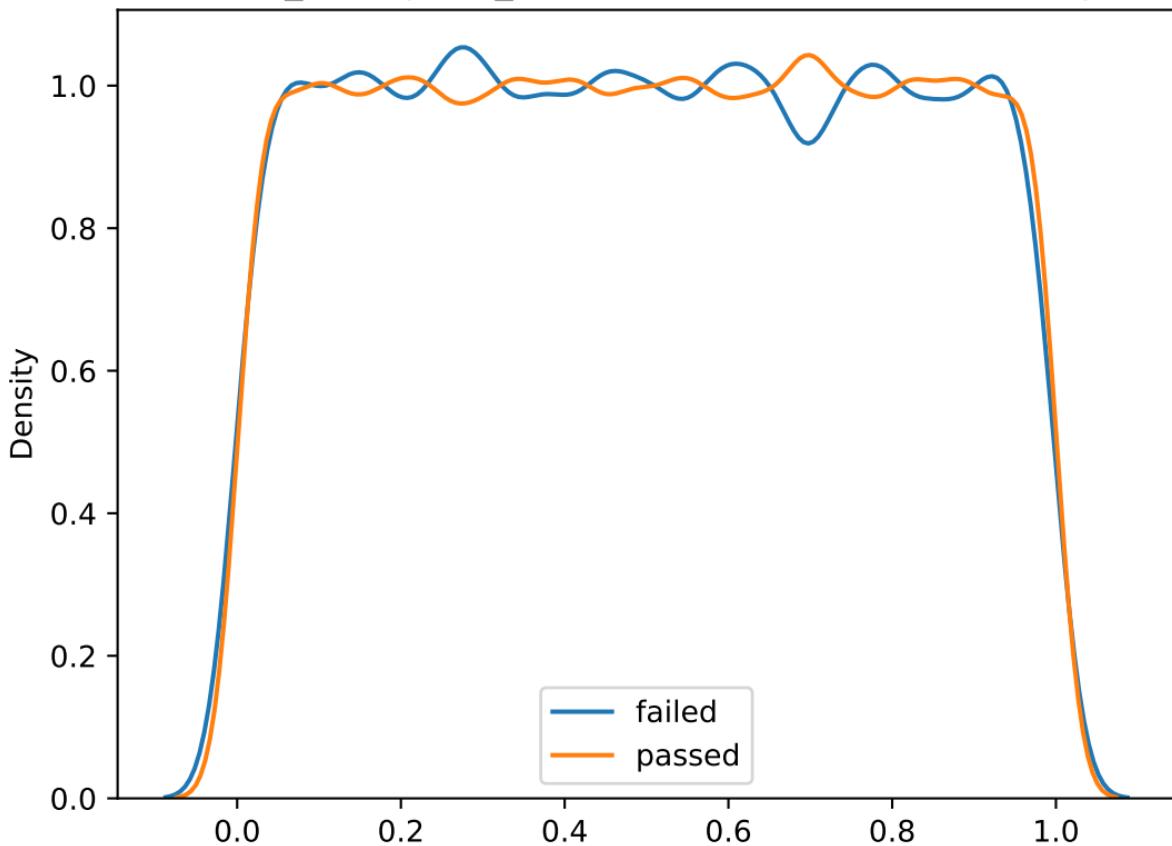
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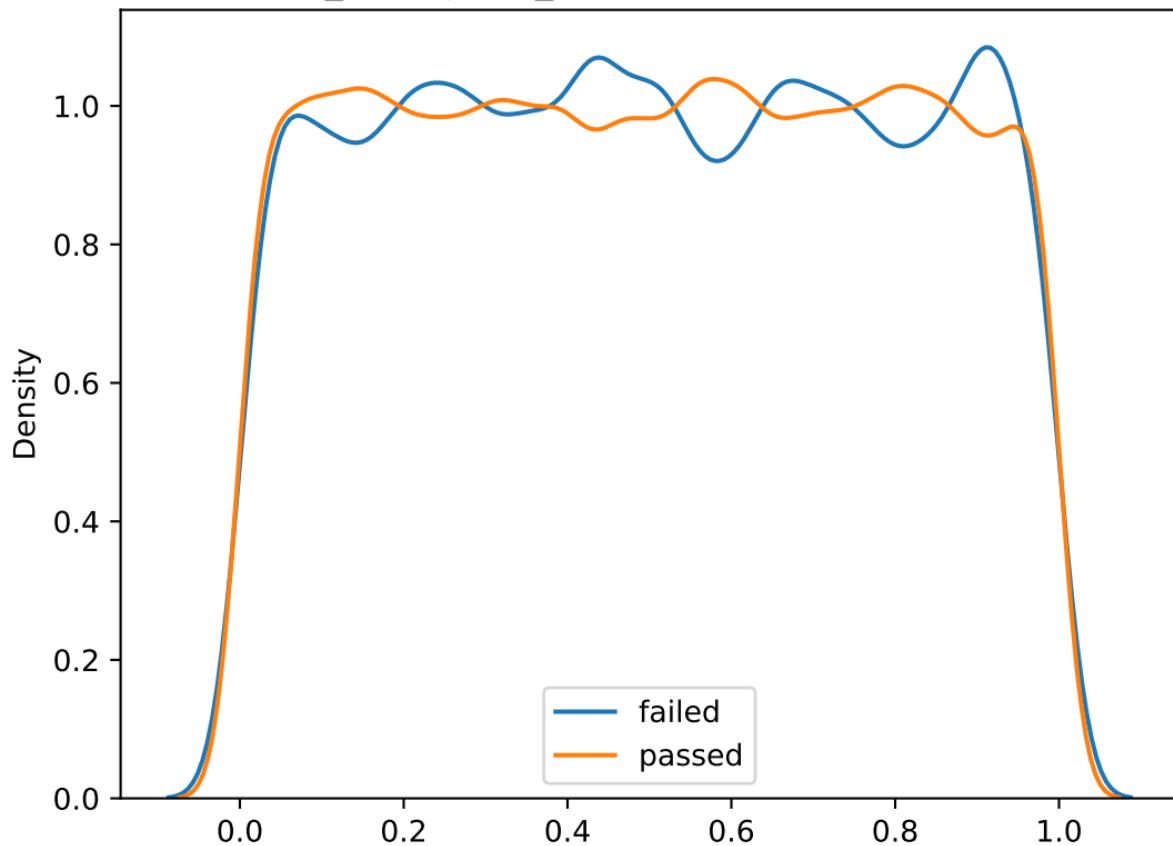
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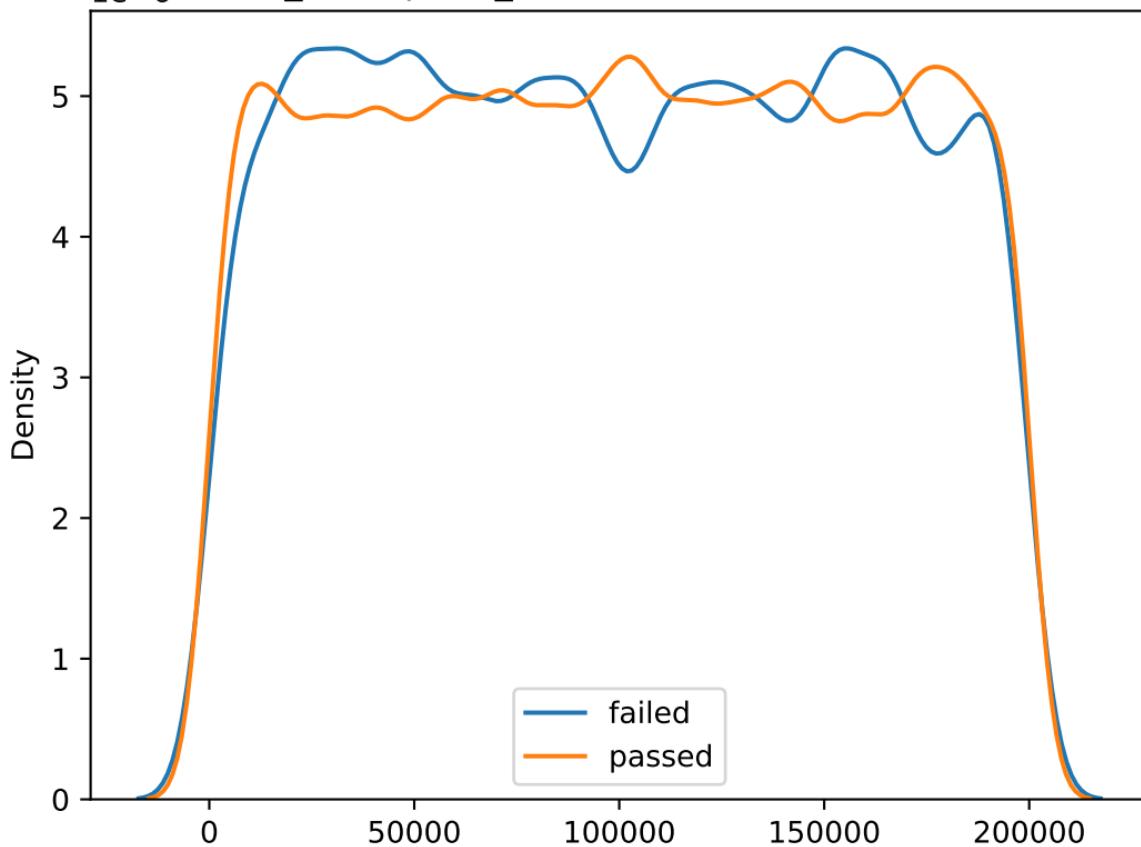
Surface_Adsorption_Double/Adsorbate;VacantSite/alpha



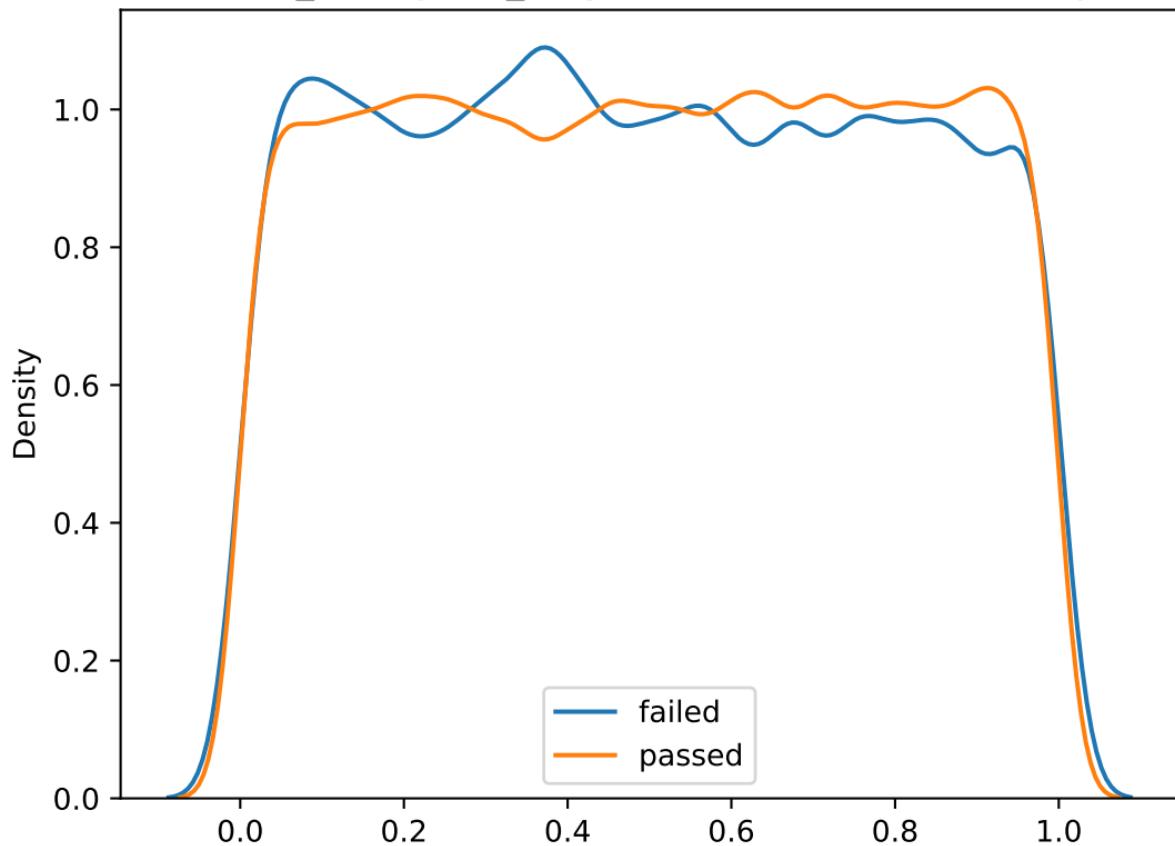
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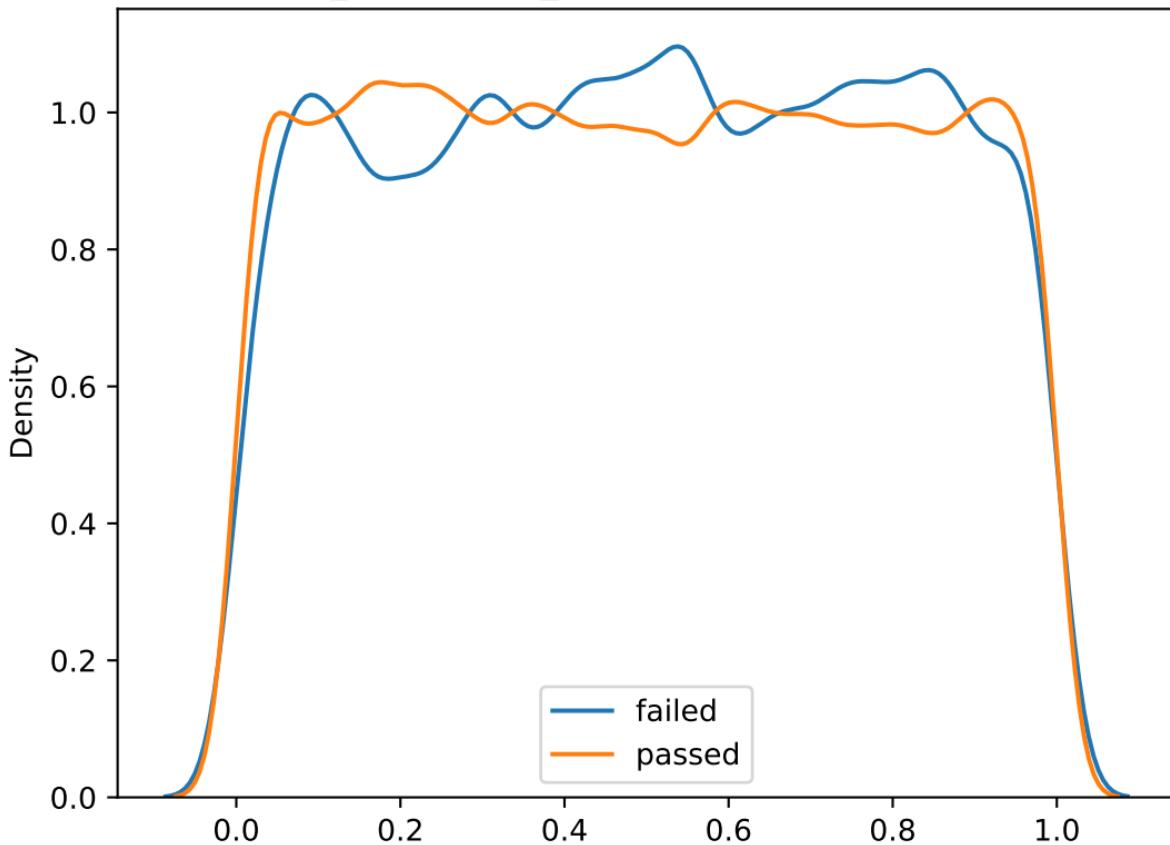
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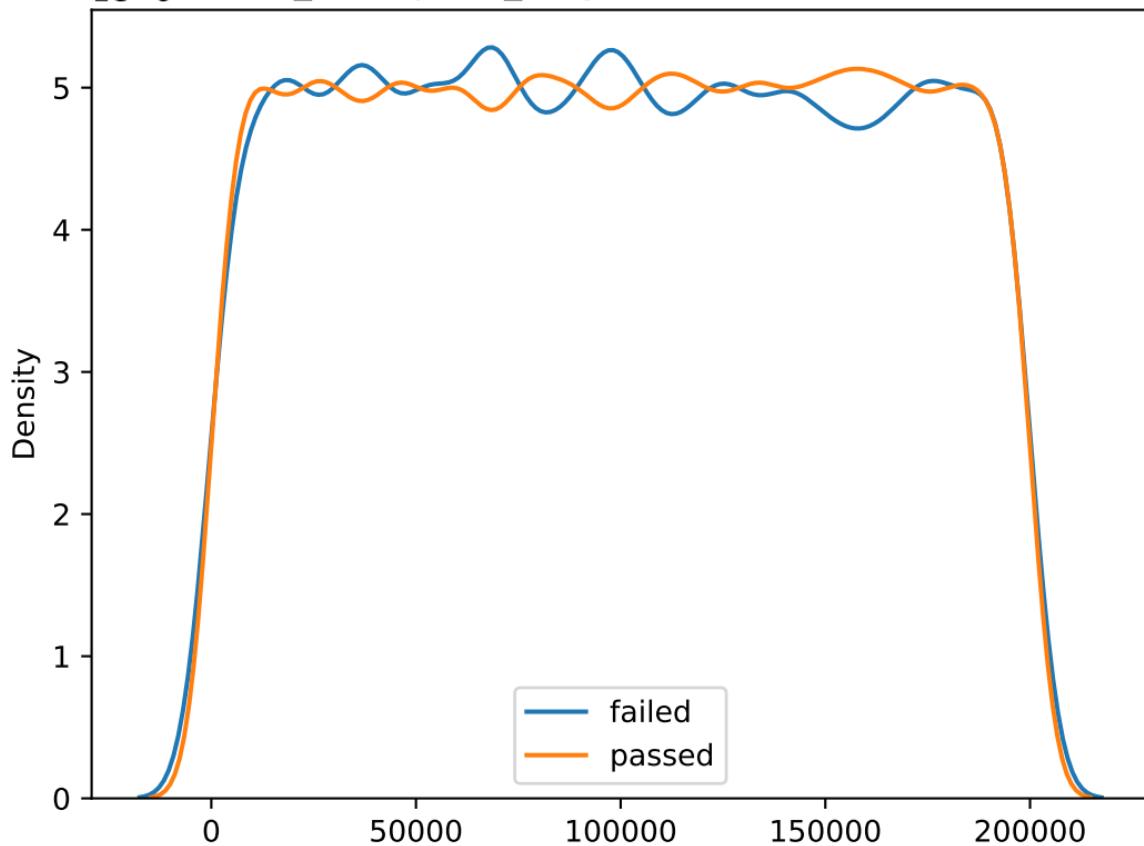
Surface_Adsorption_Single/Adsorbate;VacantSite/alpha



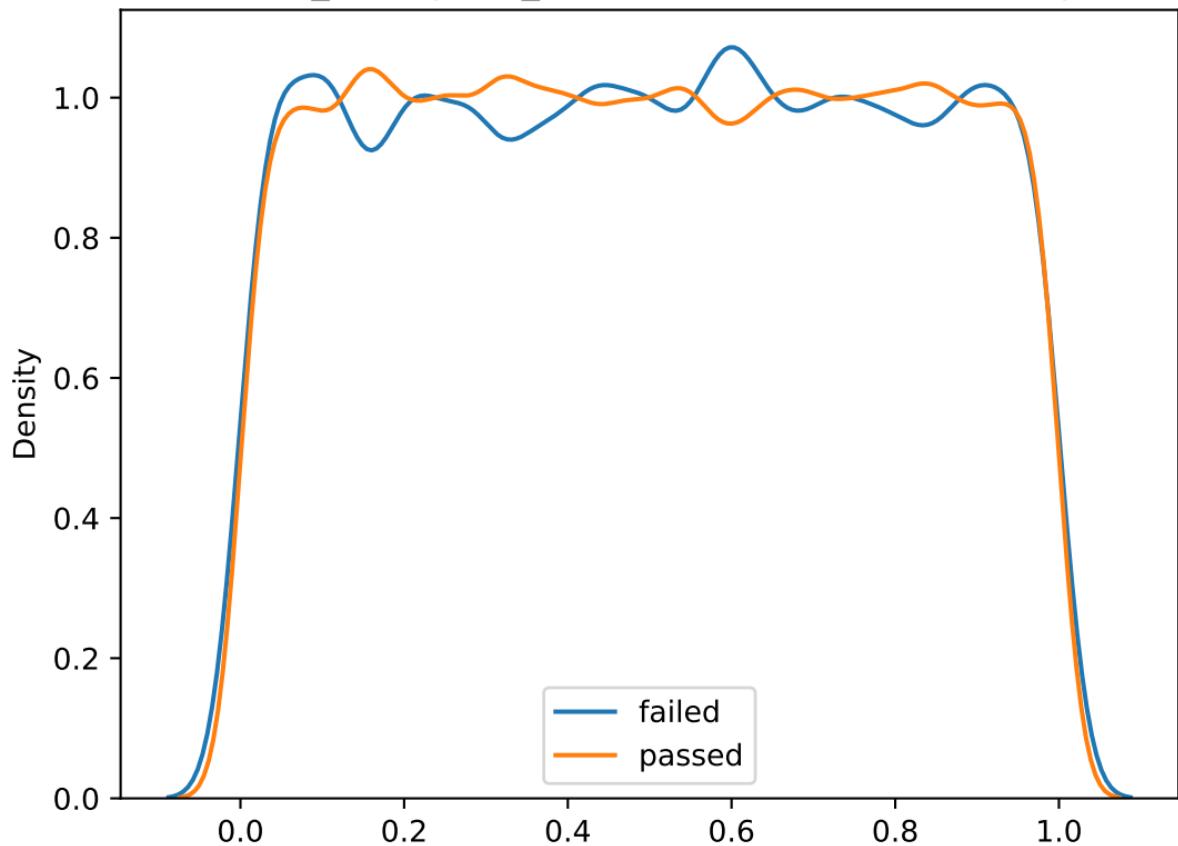
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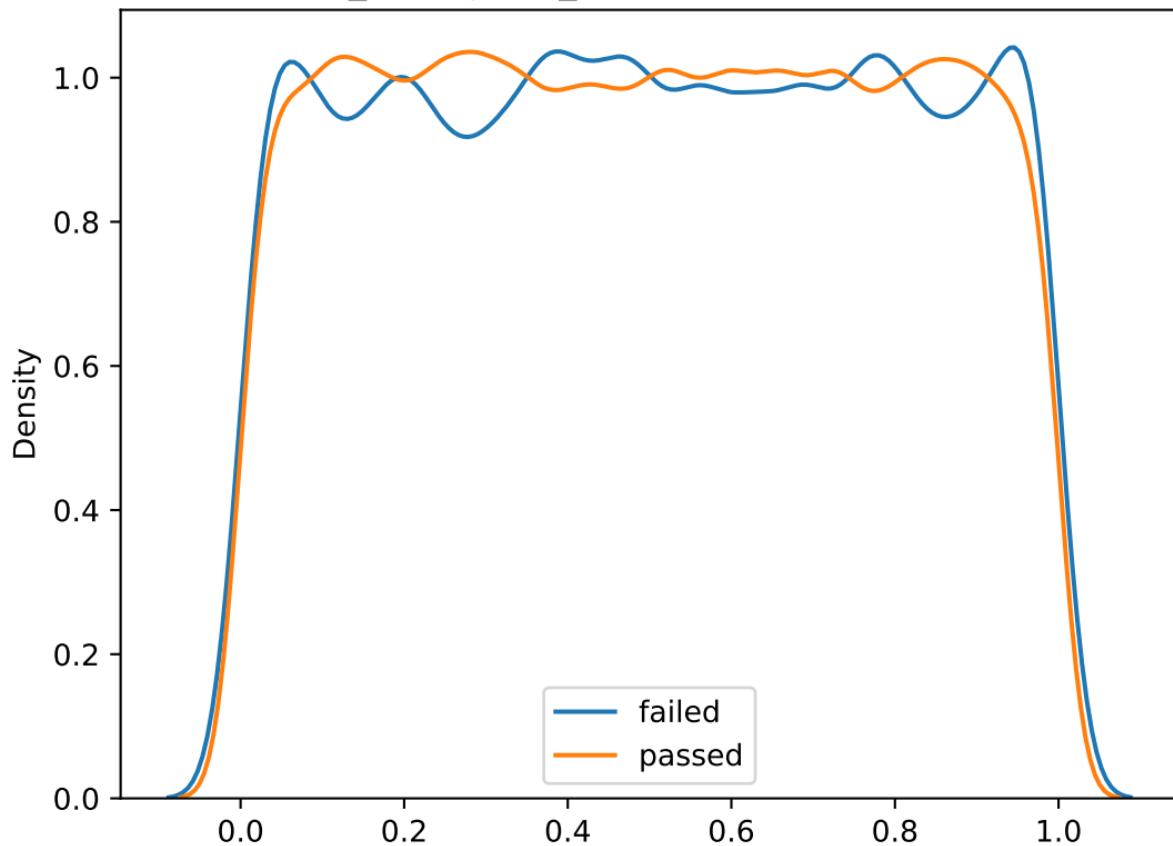
1e-6 Surface_Adsorption_Single/Adsorbate;VacantSite/E0



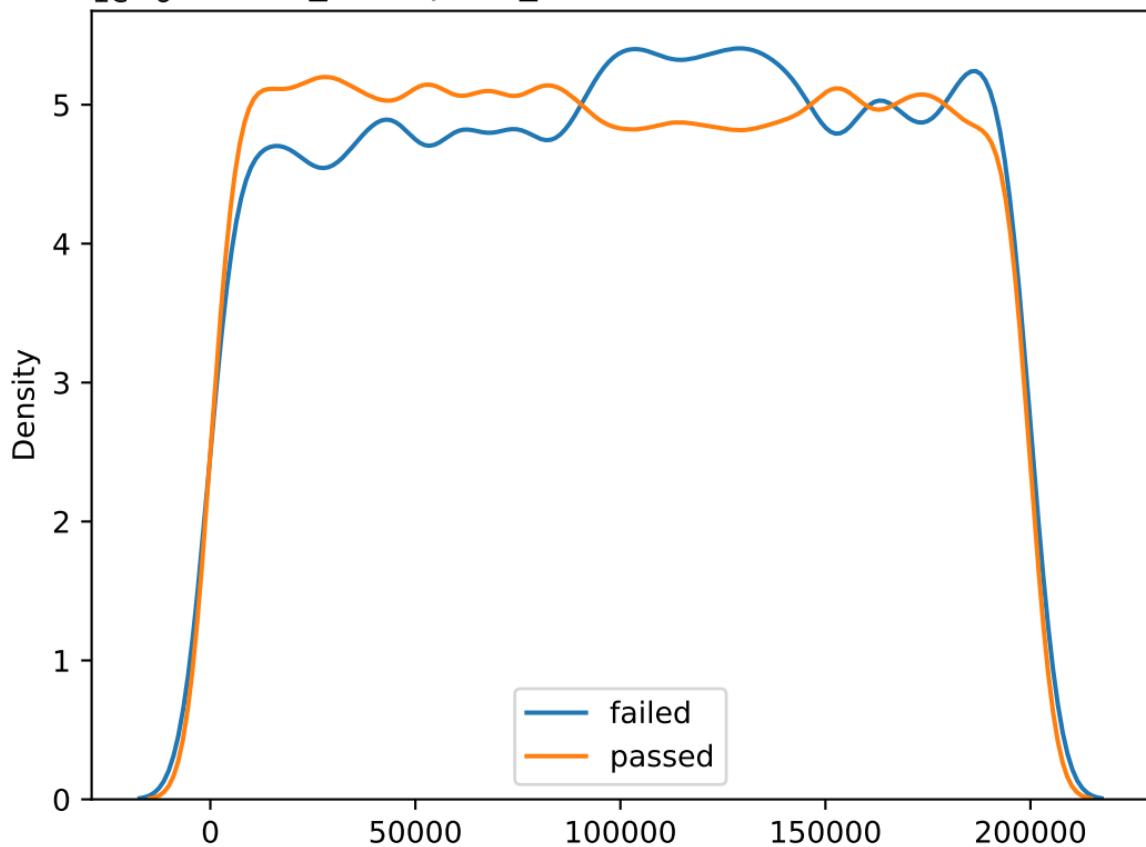
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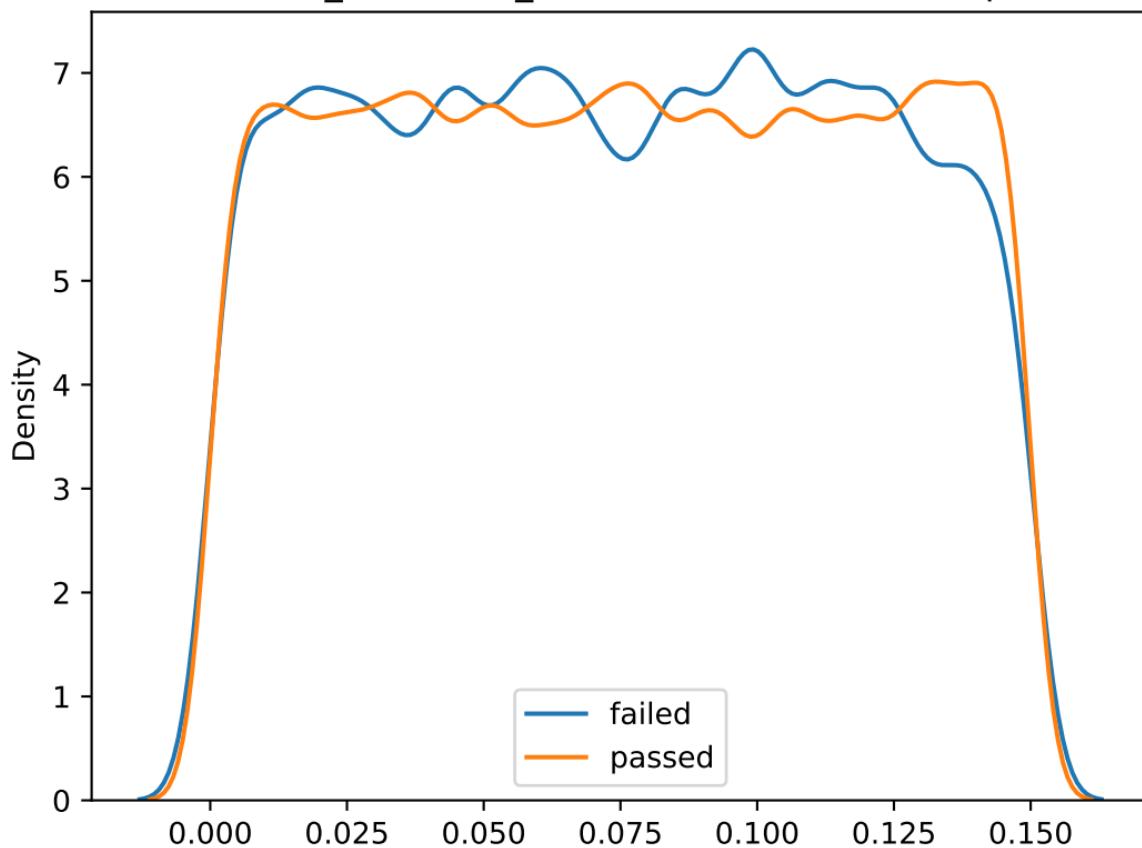
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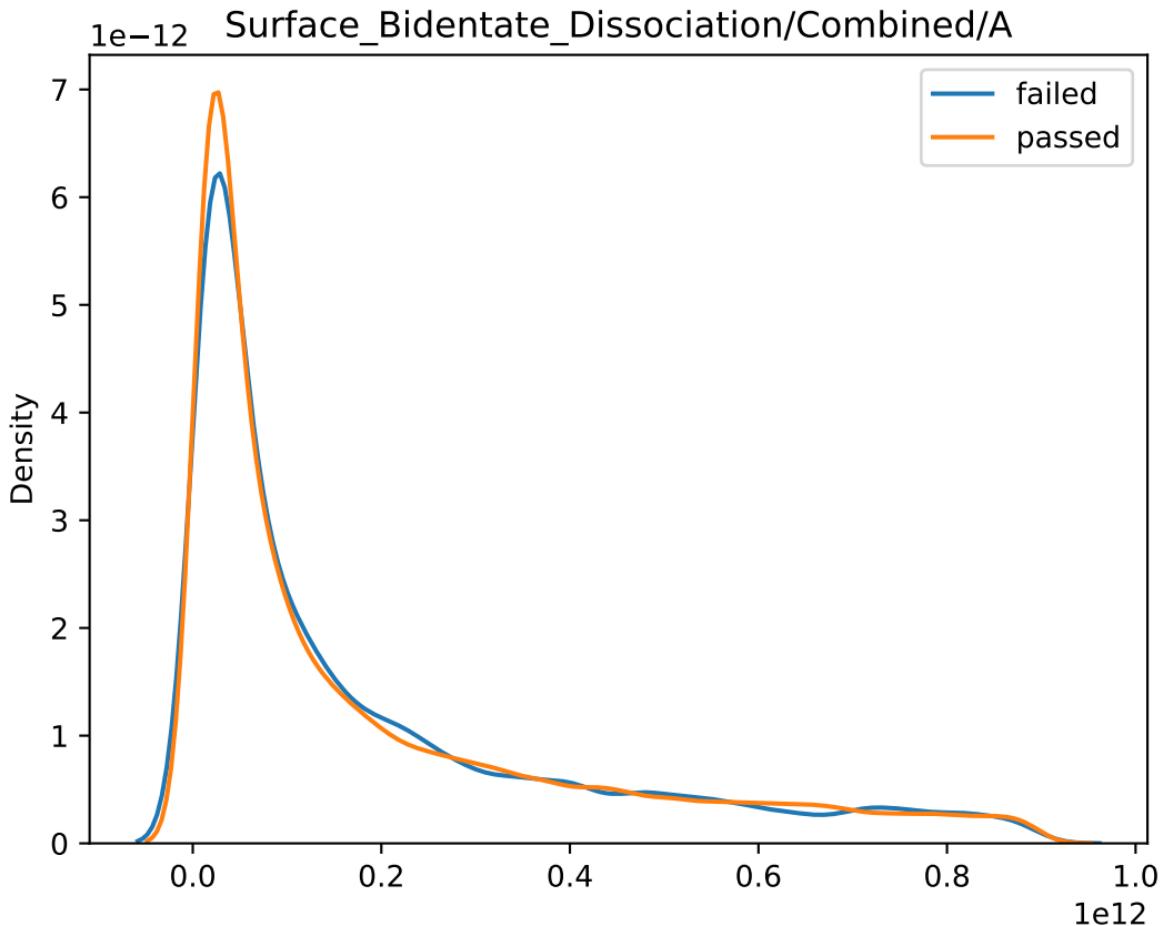


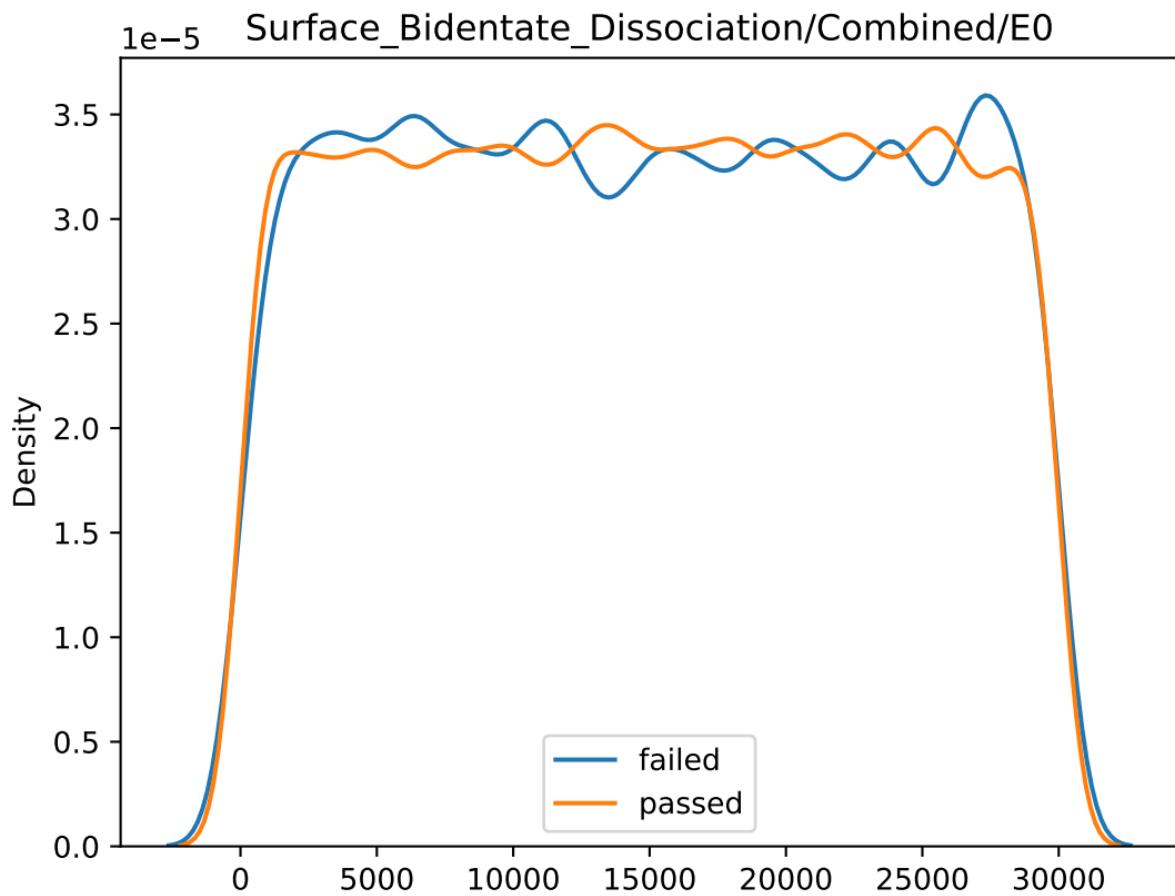
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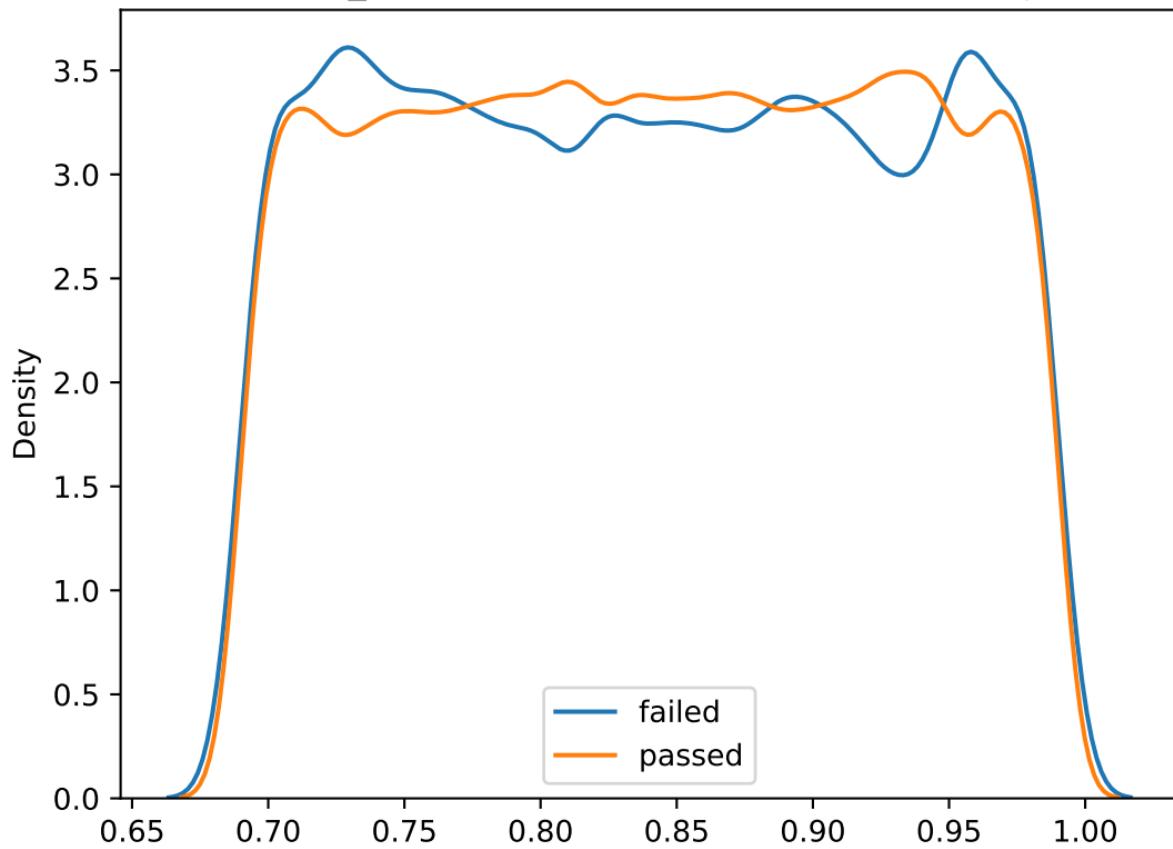
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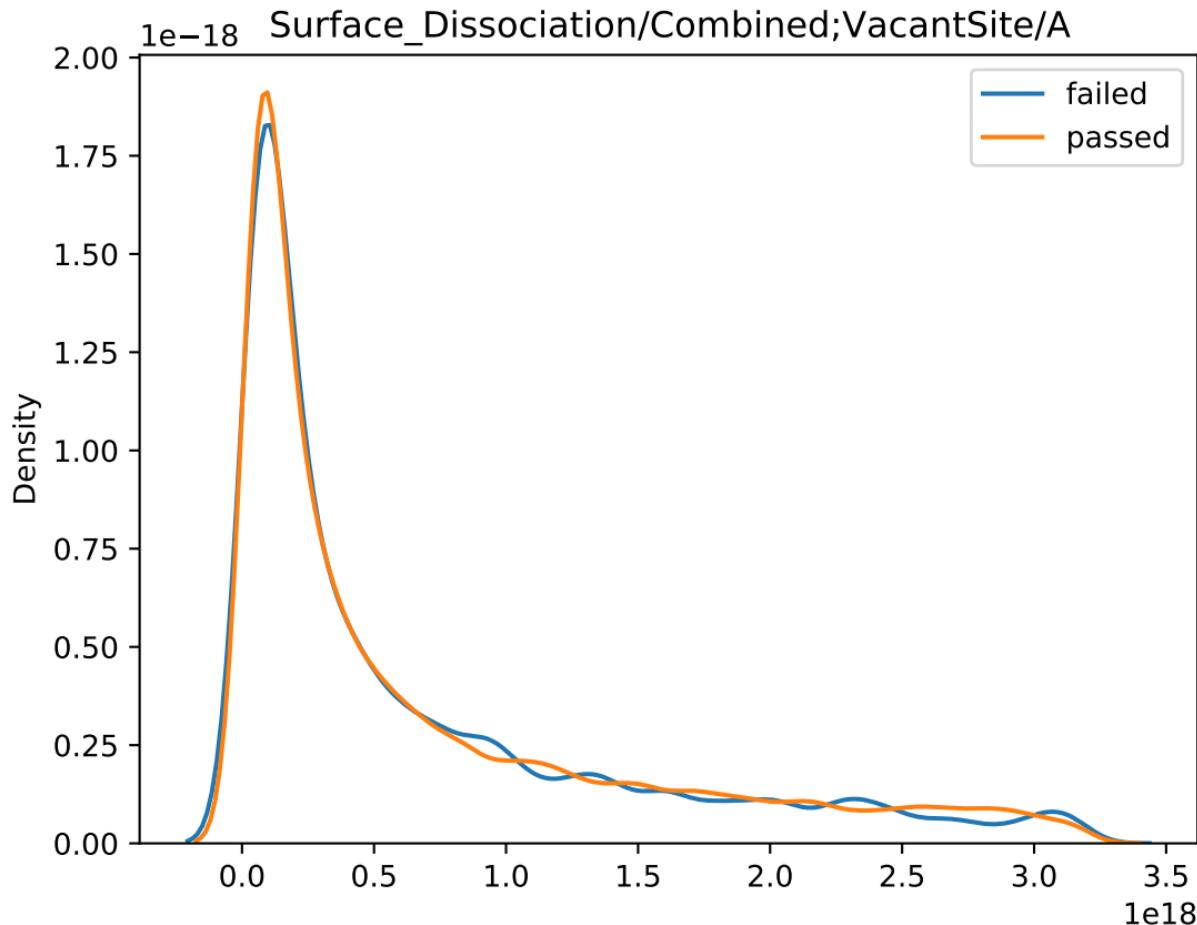


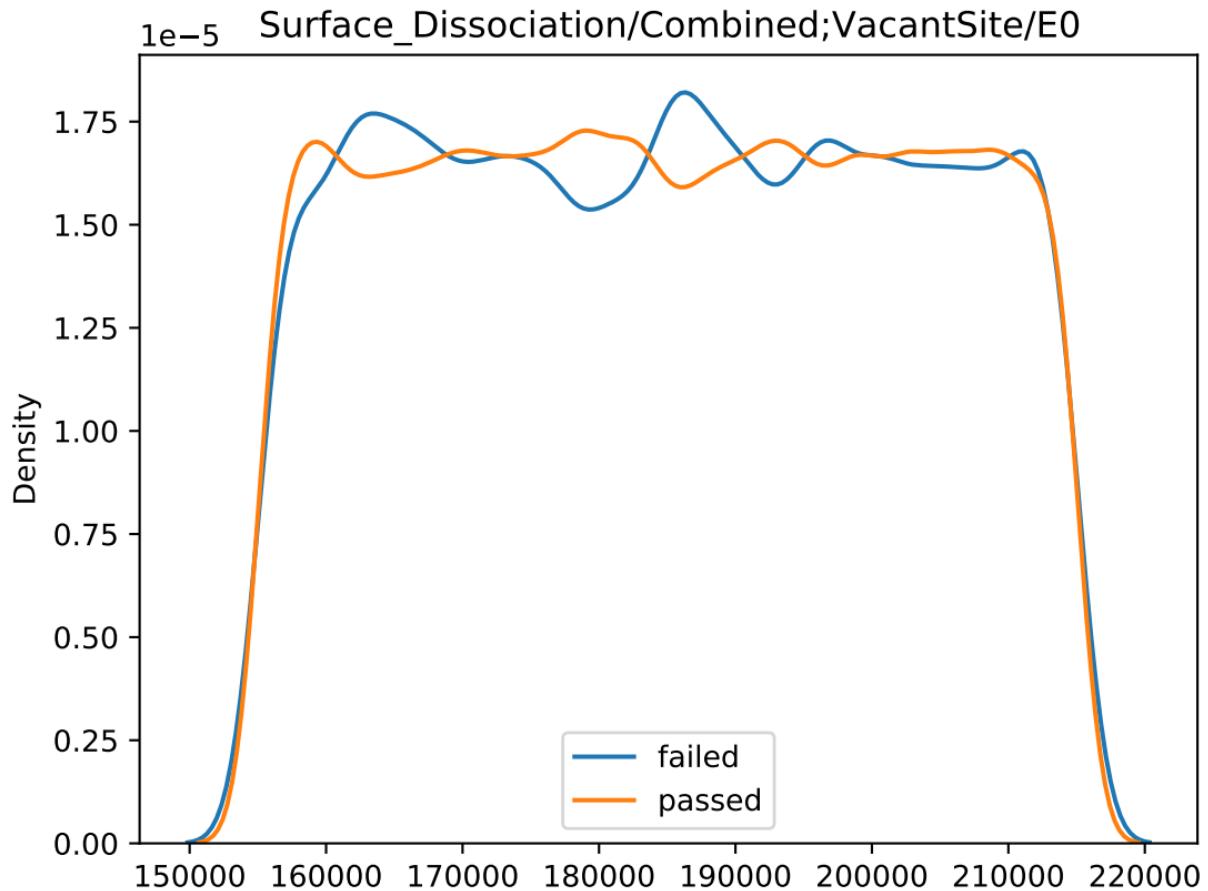




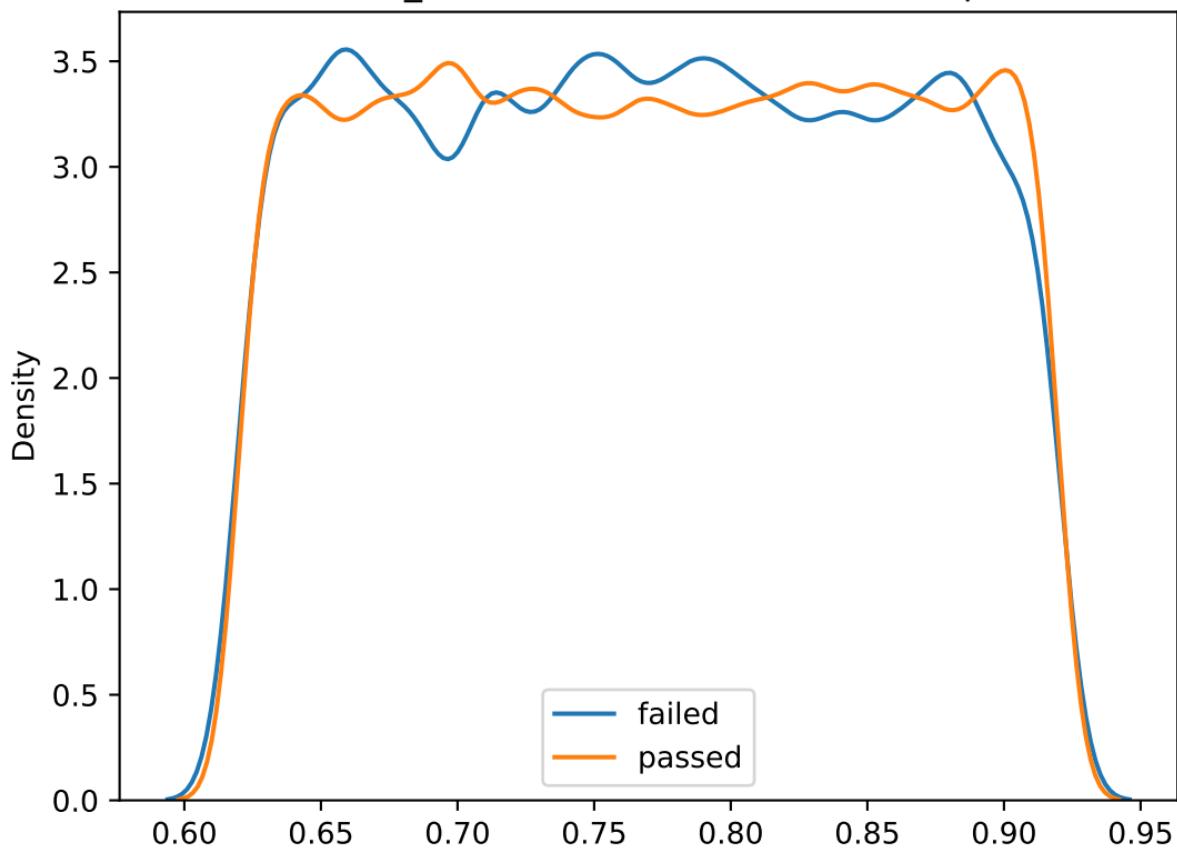
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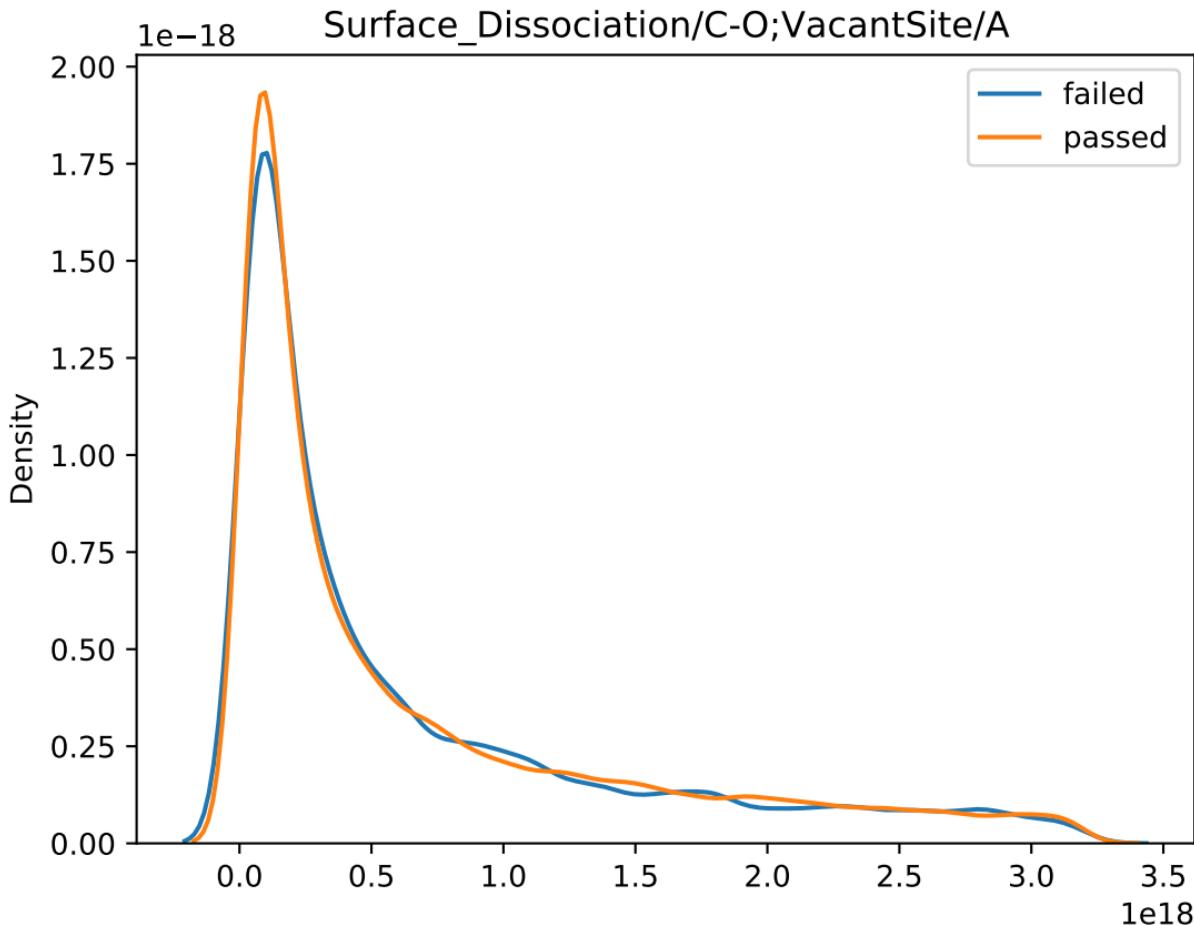


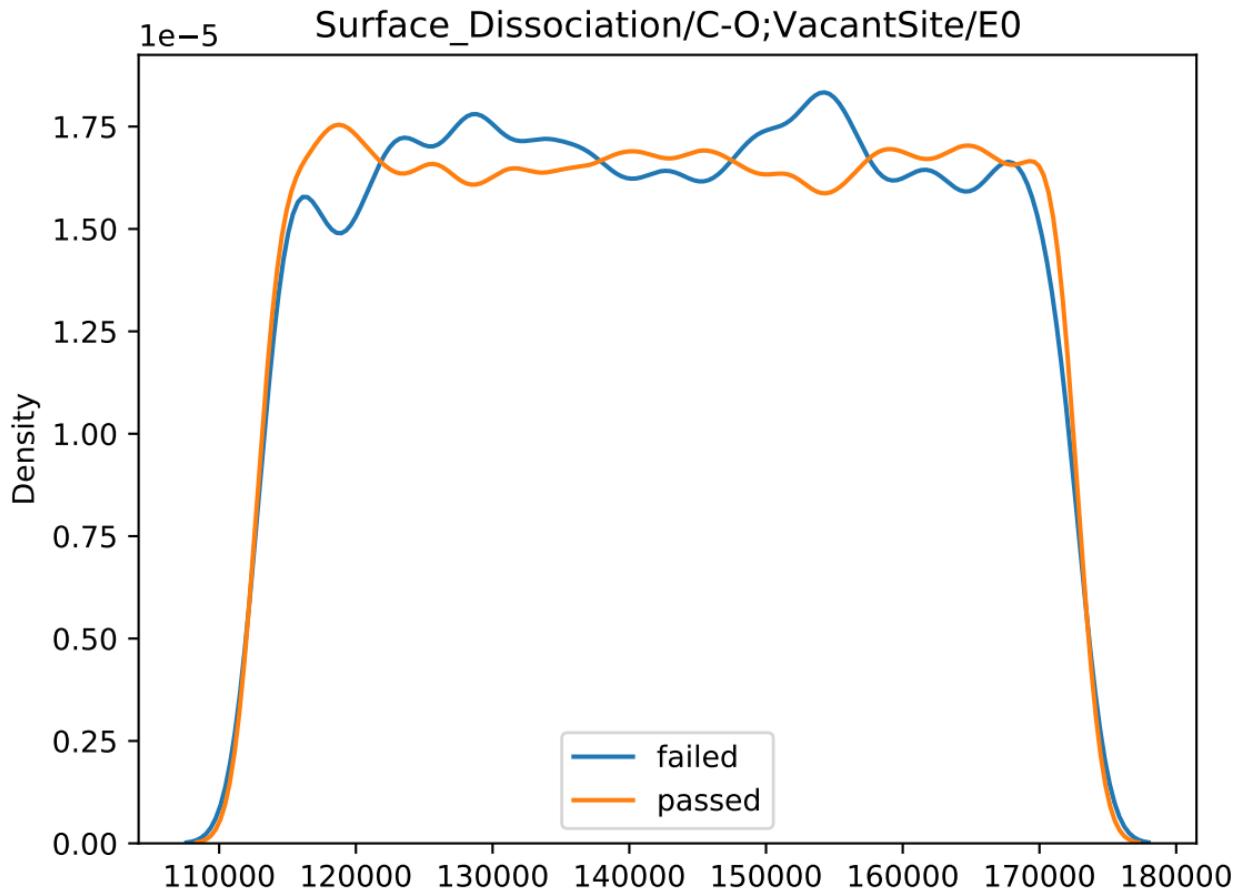




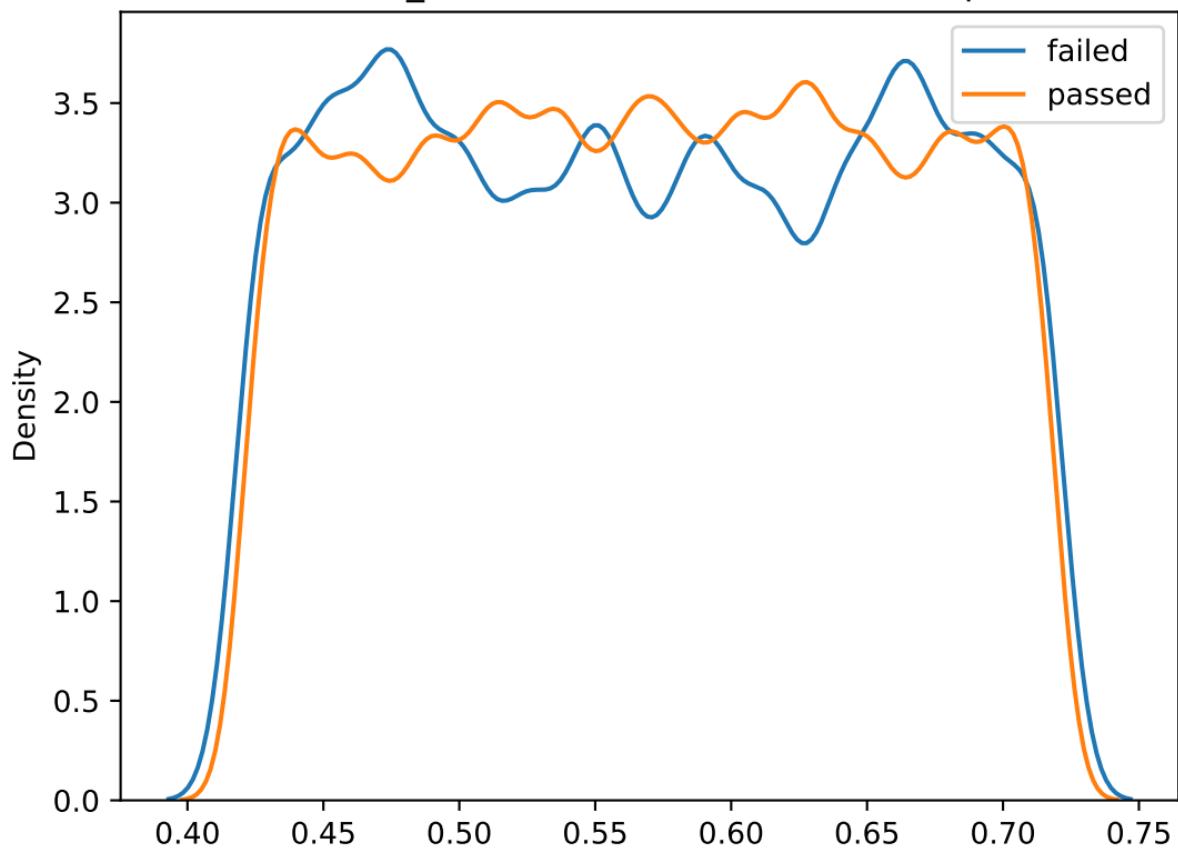
Surface_Dissociation/C-O;VacantSite/alpha

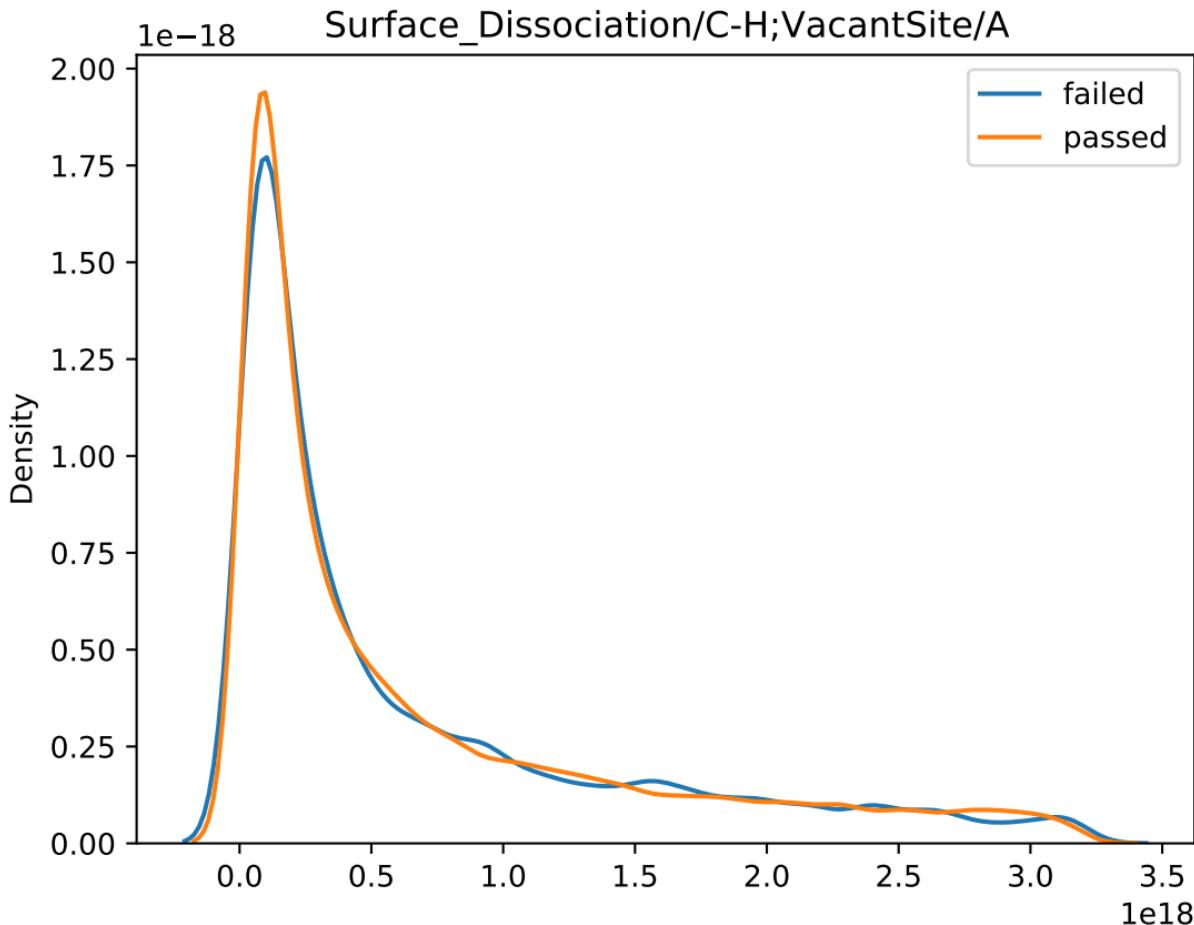


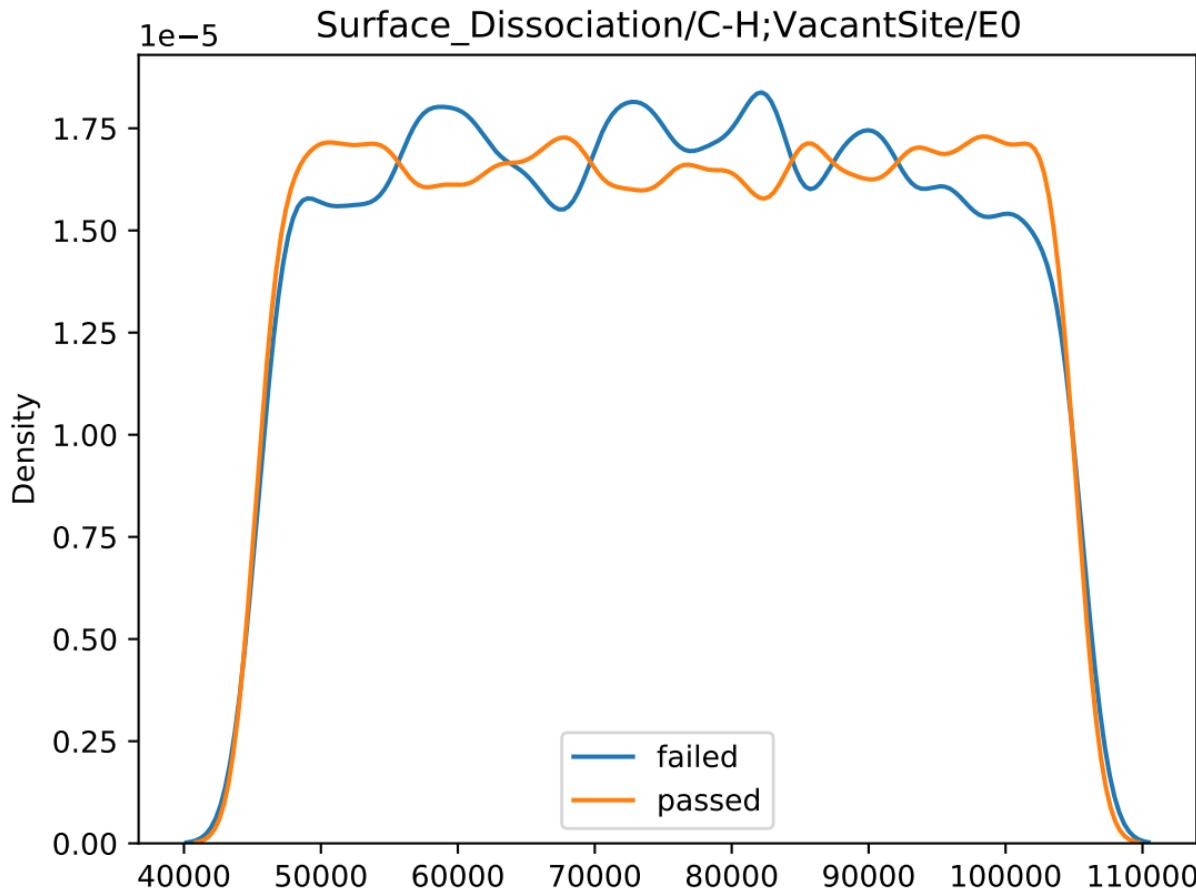




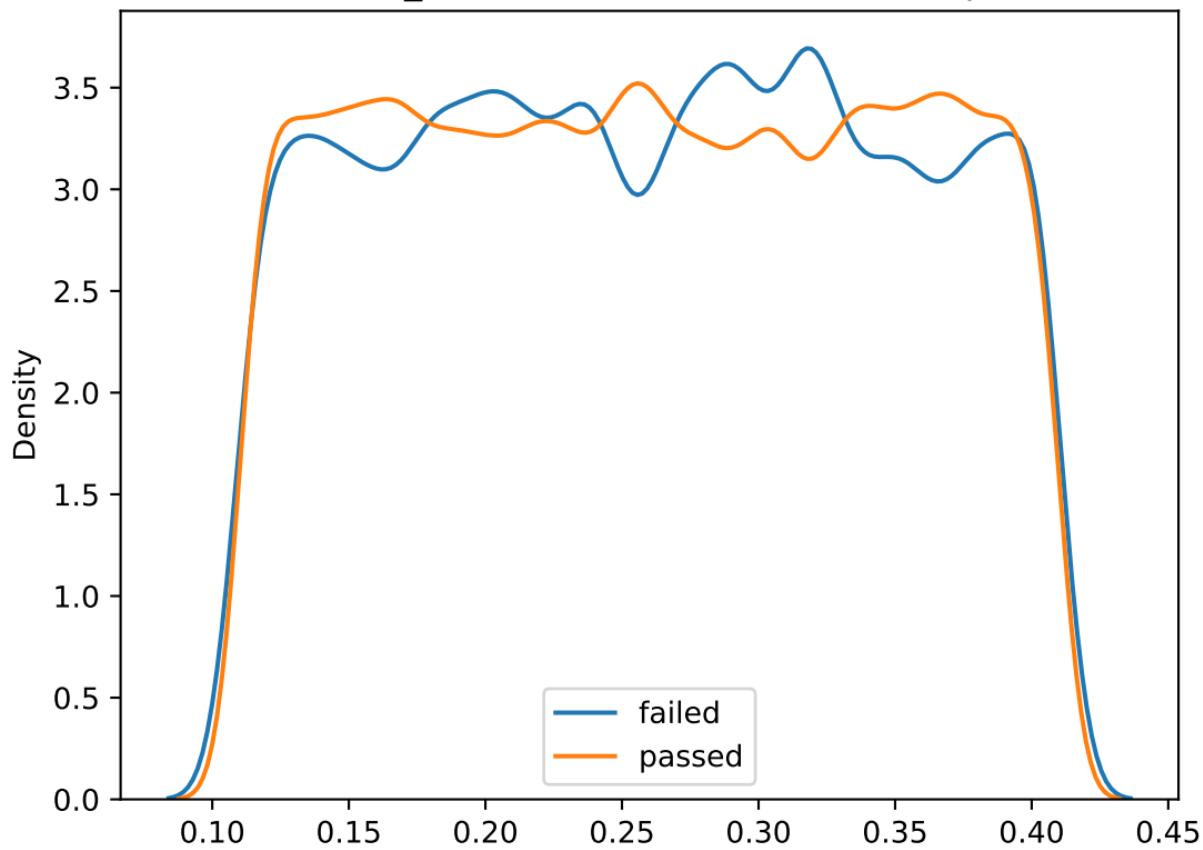
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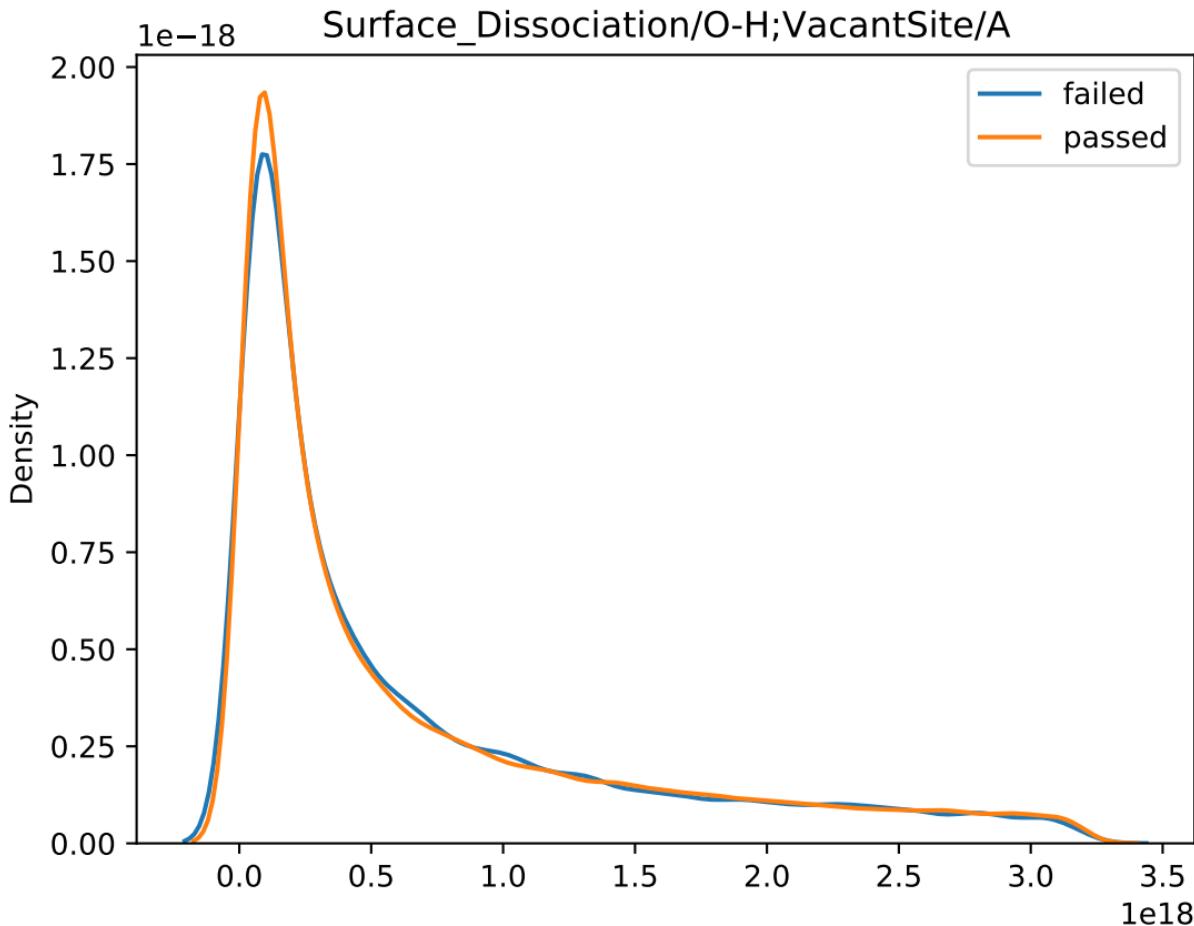


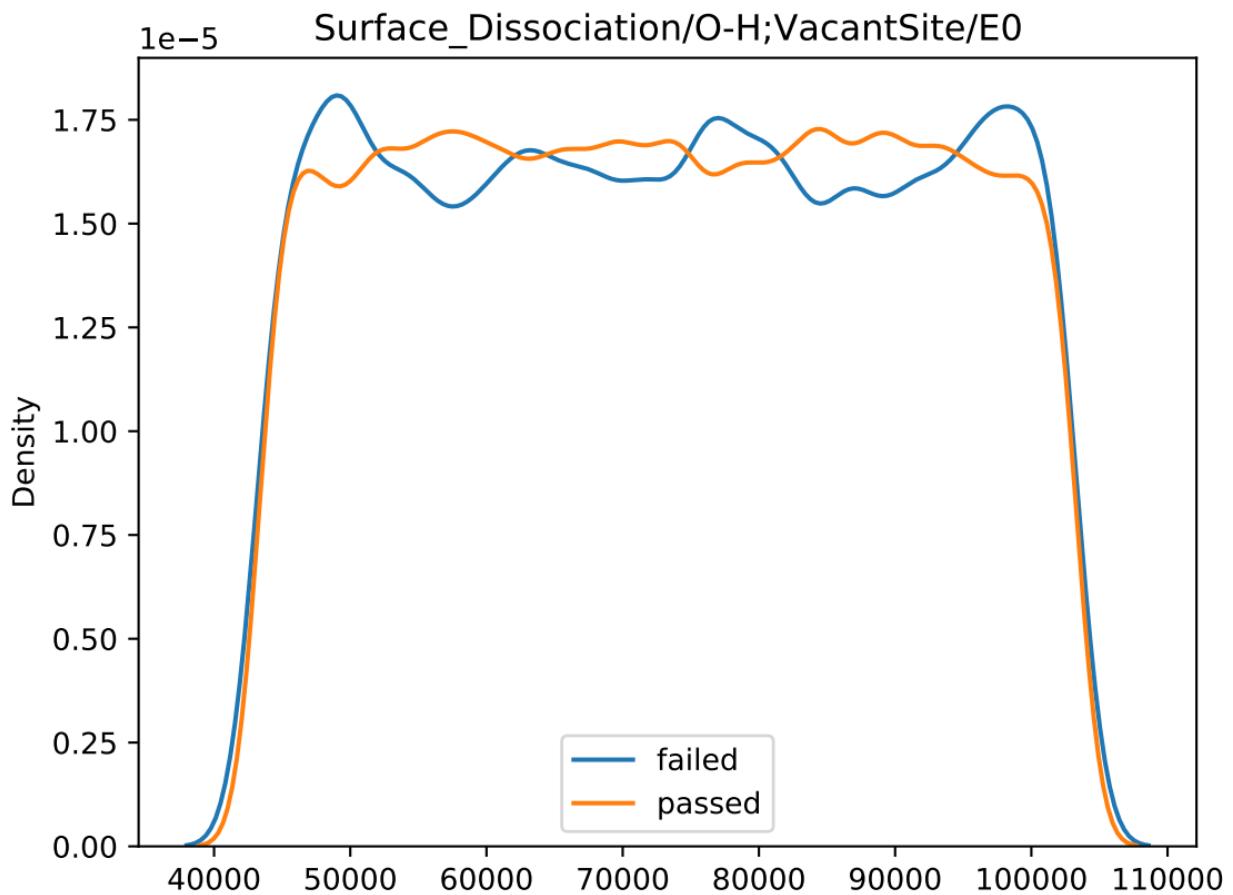




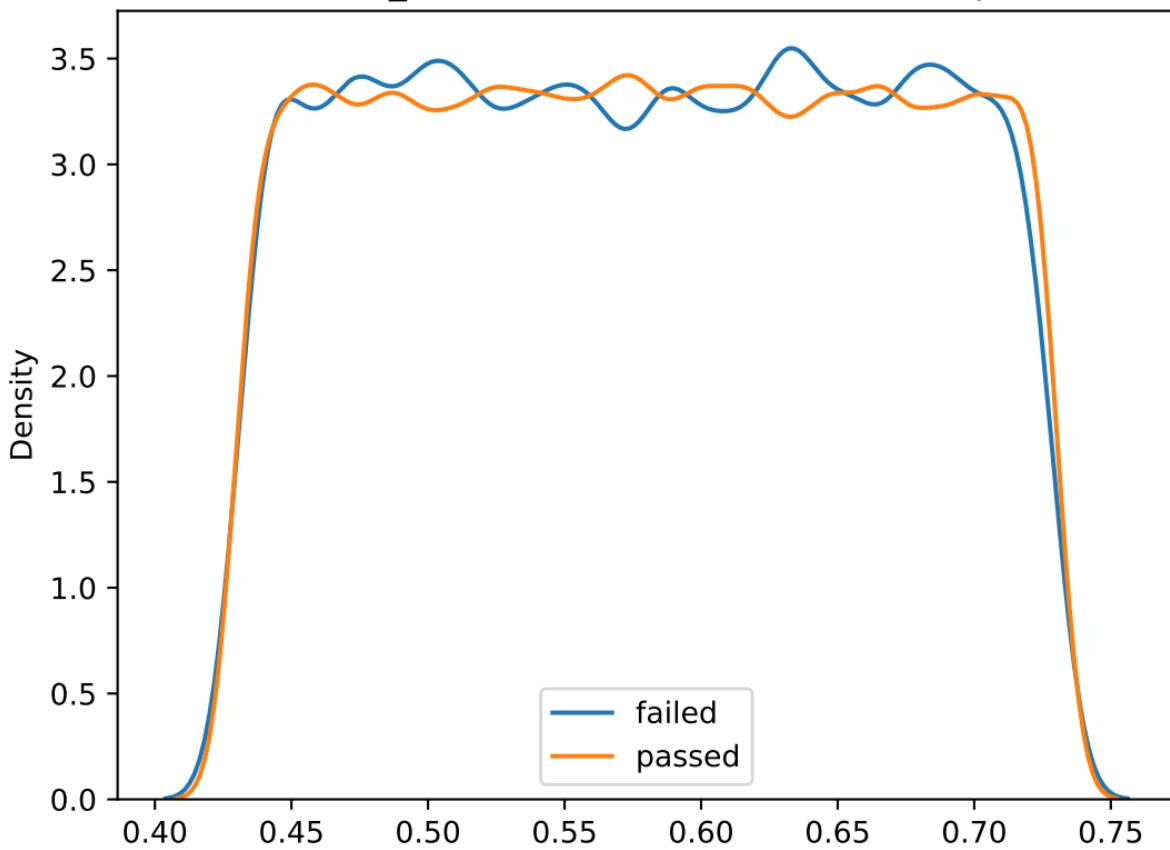
Surface_Dissociation/O-H;VacantSite/alpha

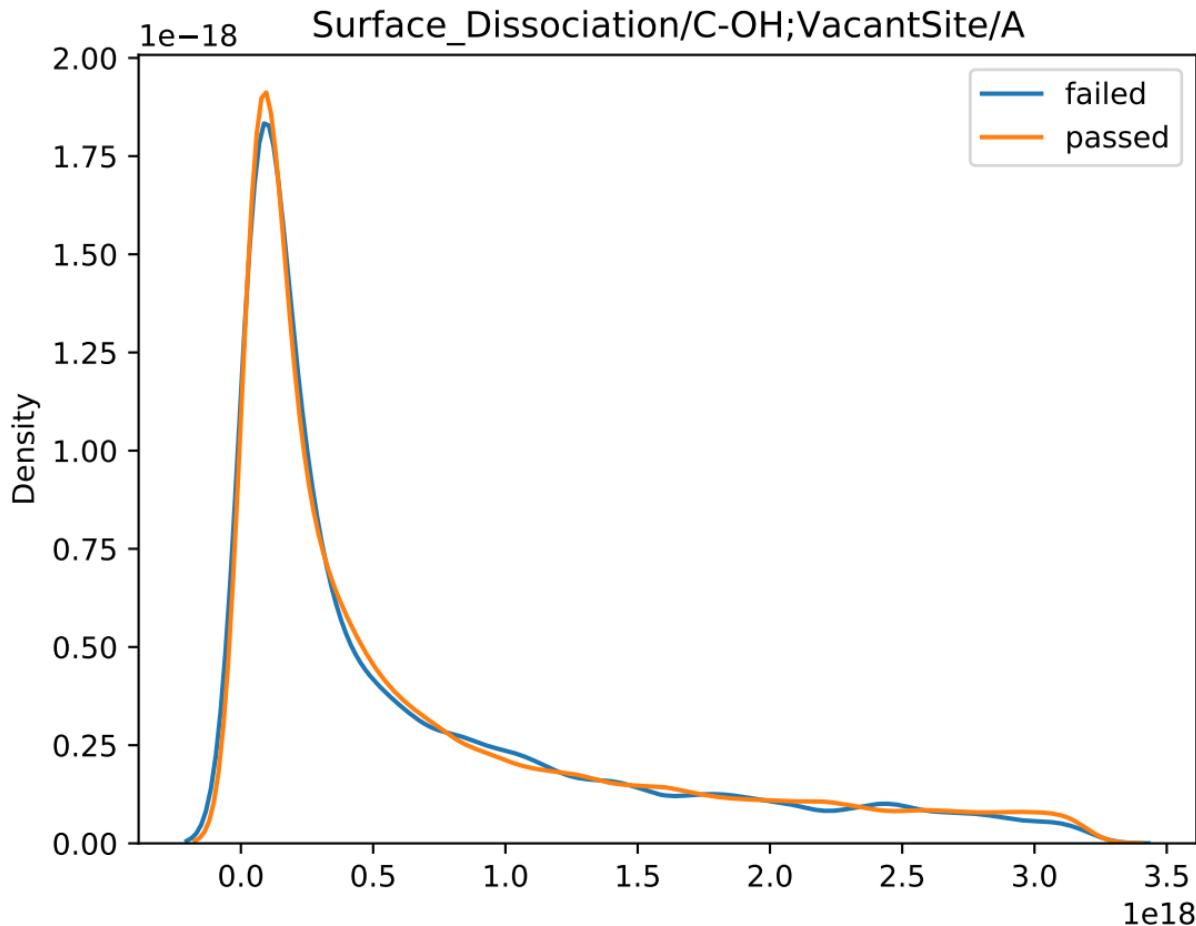


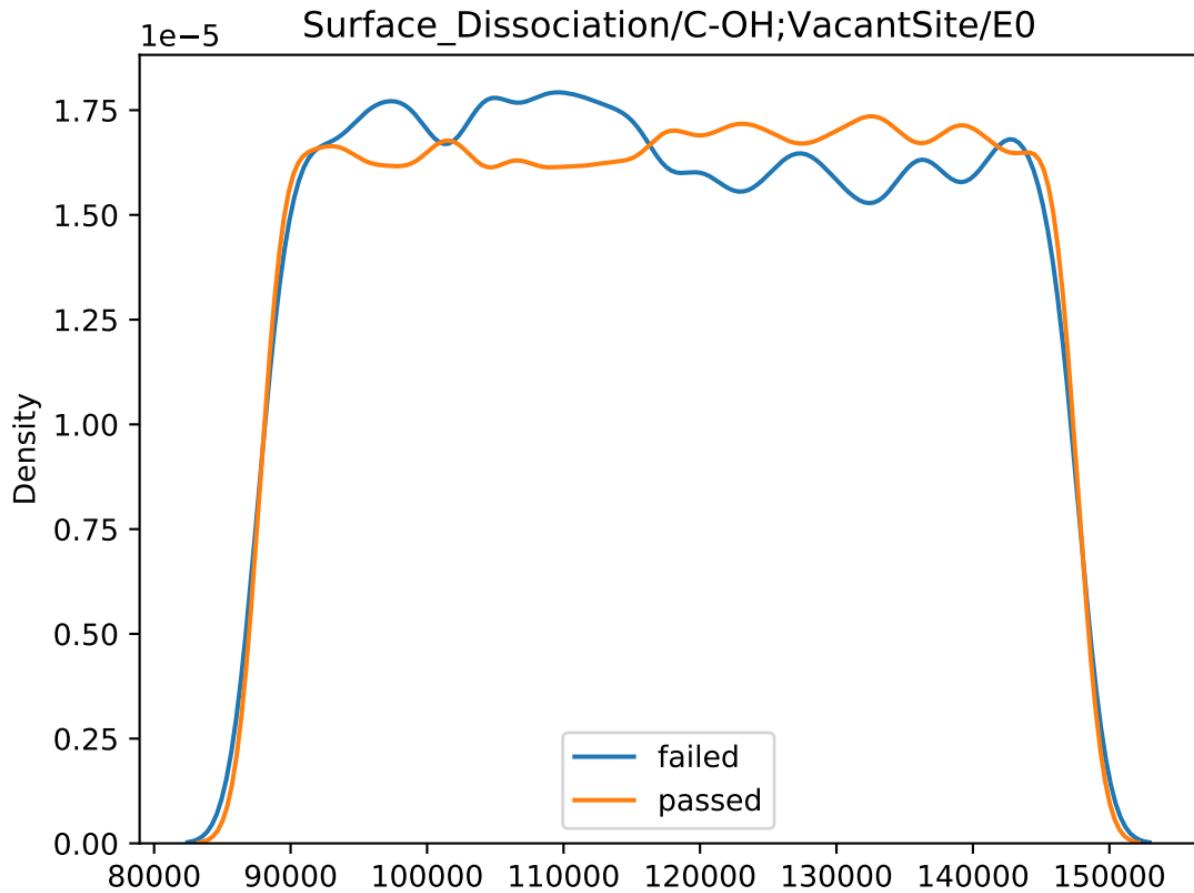




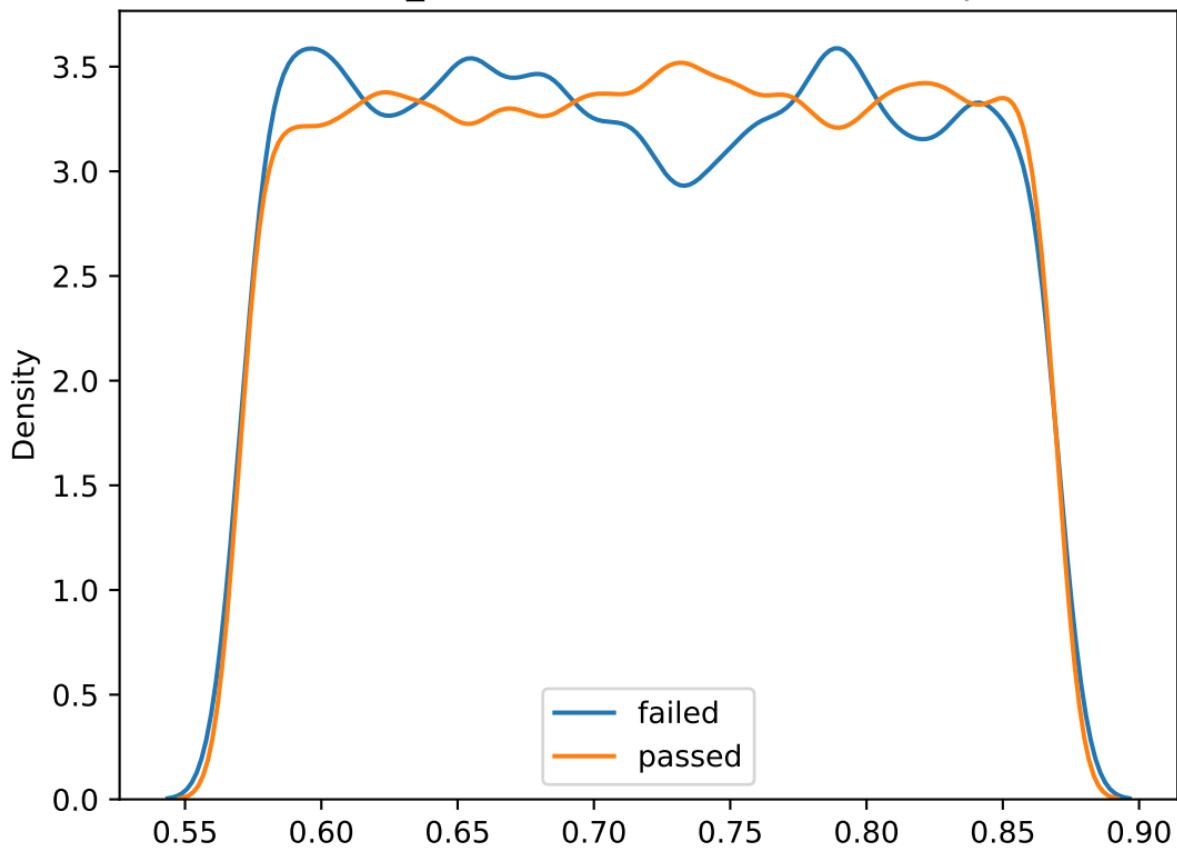
Surface_Dissociation/C-OH;VacantSite/alpha

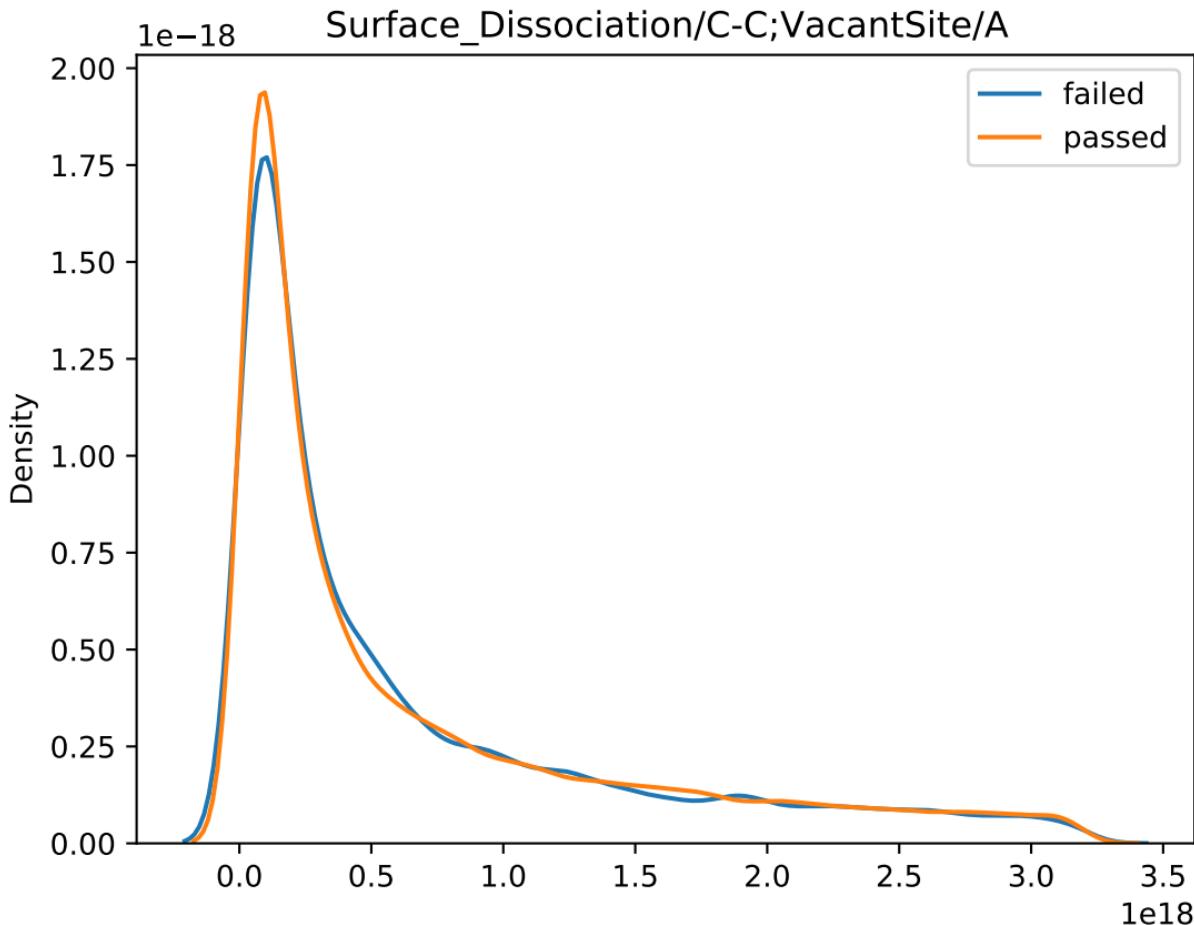


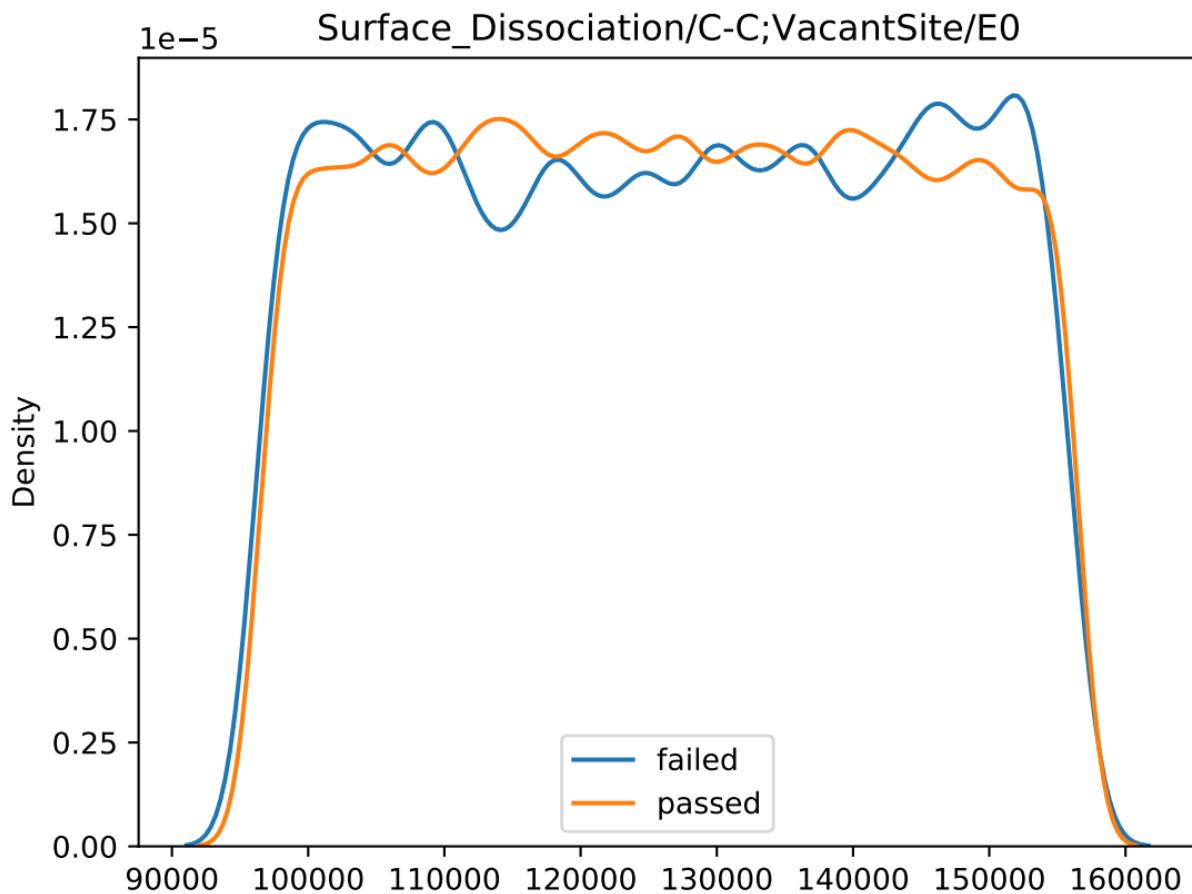




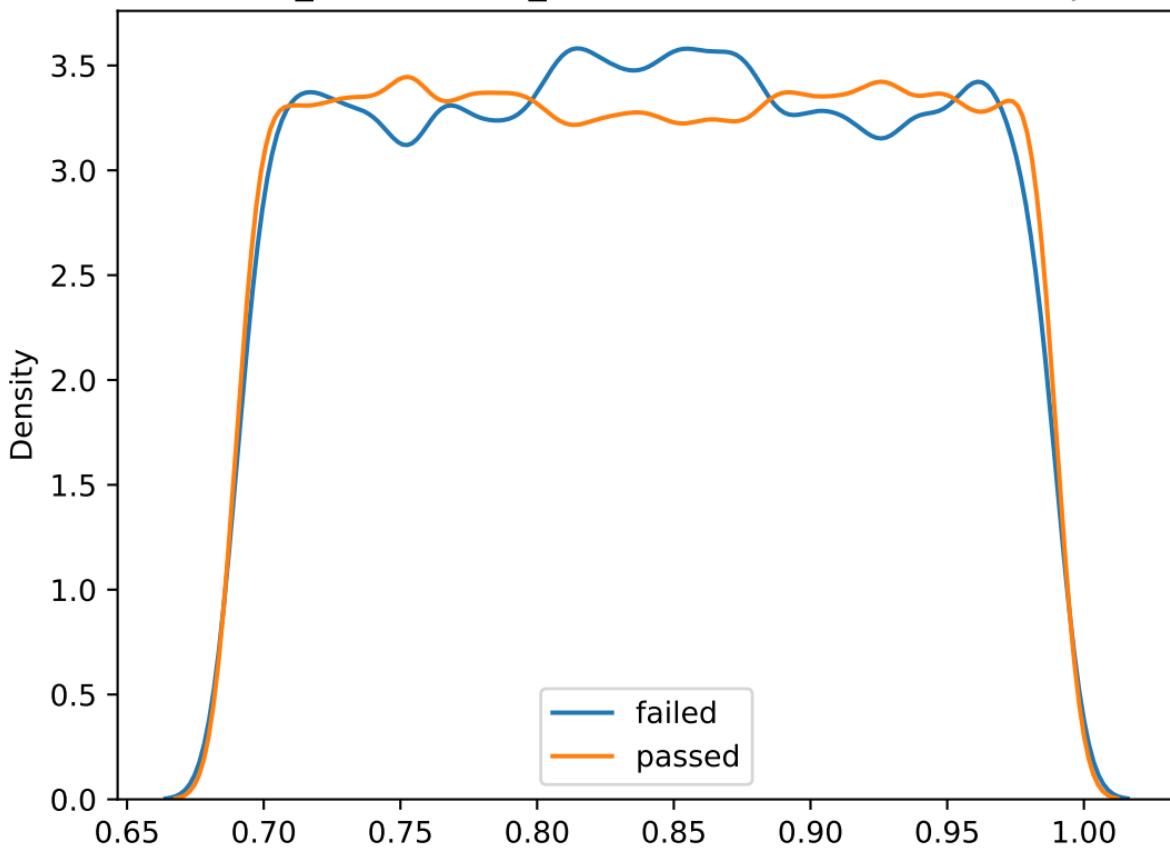
Surface_Dissociation/C-C;VacantSite/alpha

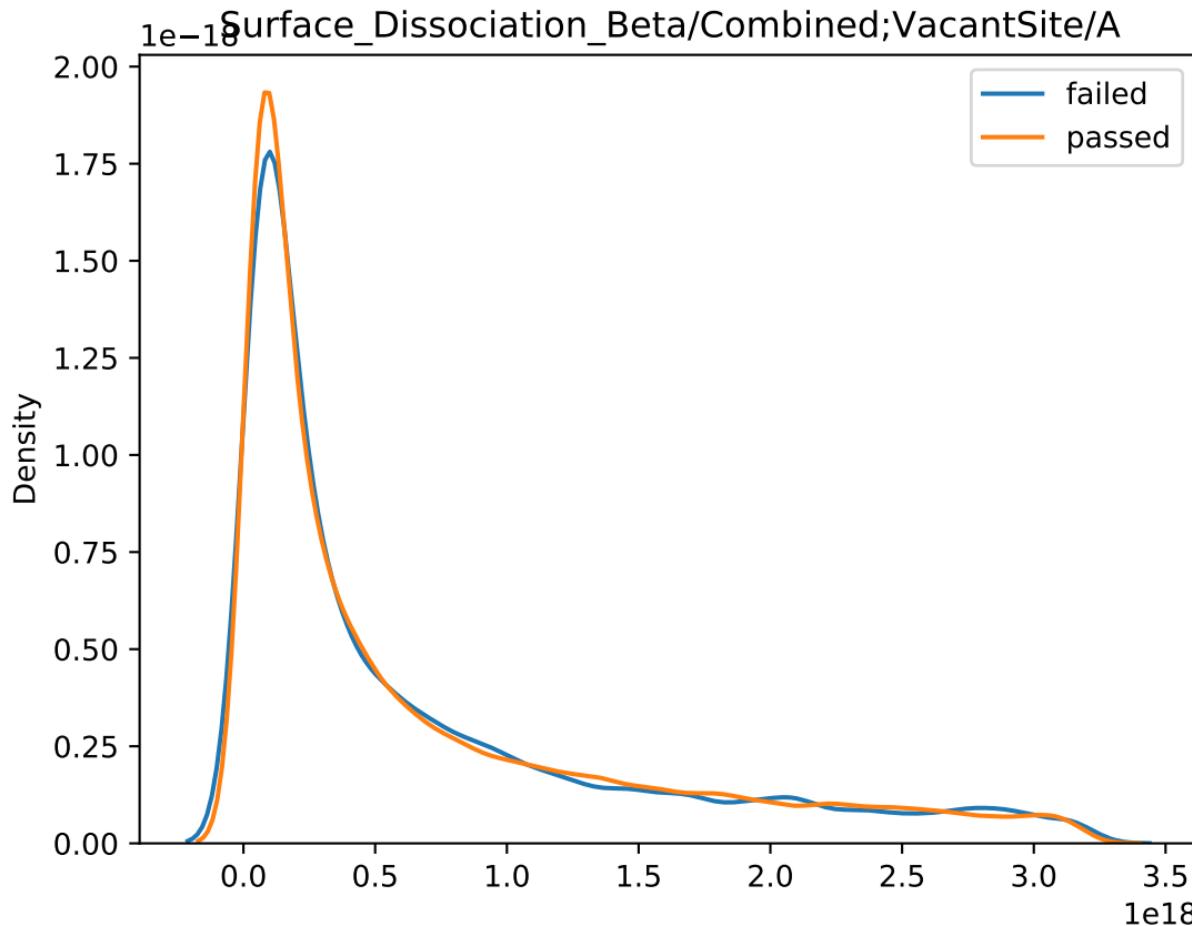




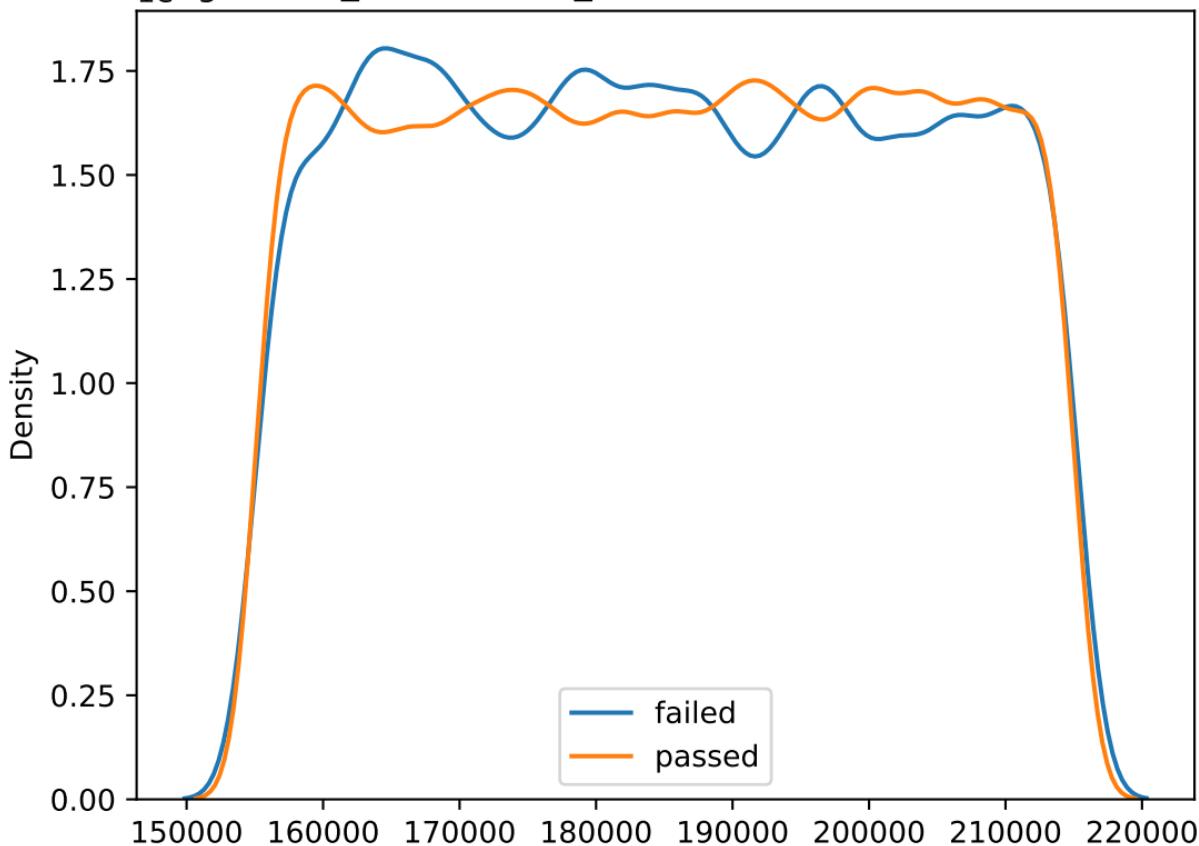


Surface_Dissociation_Beta/Combined;VacantSite/alpha

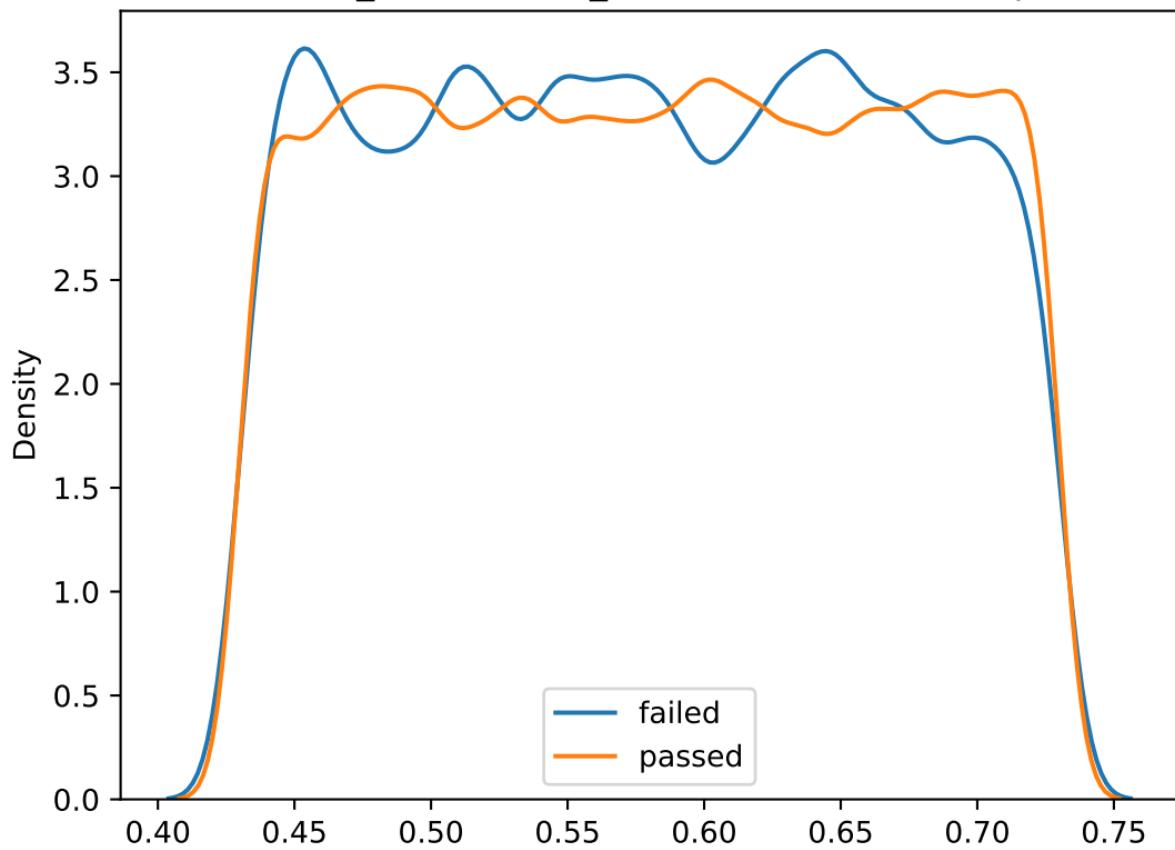


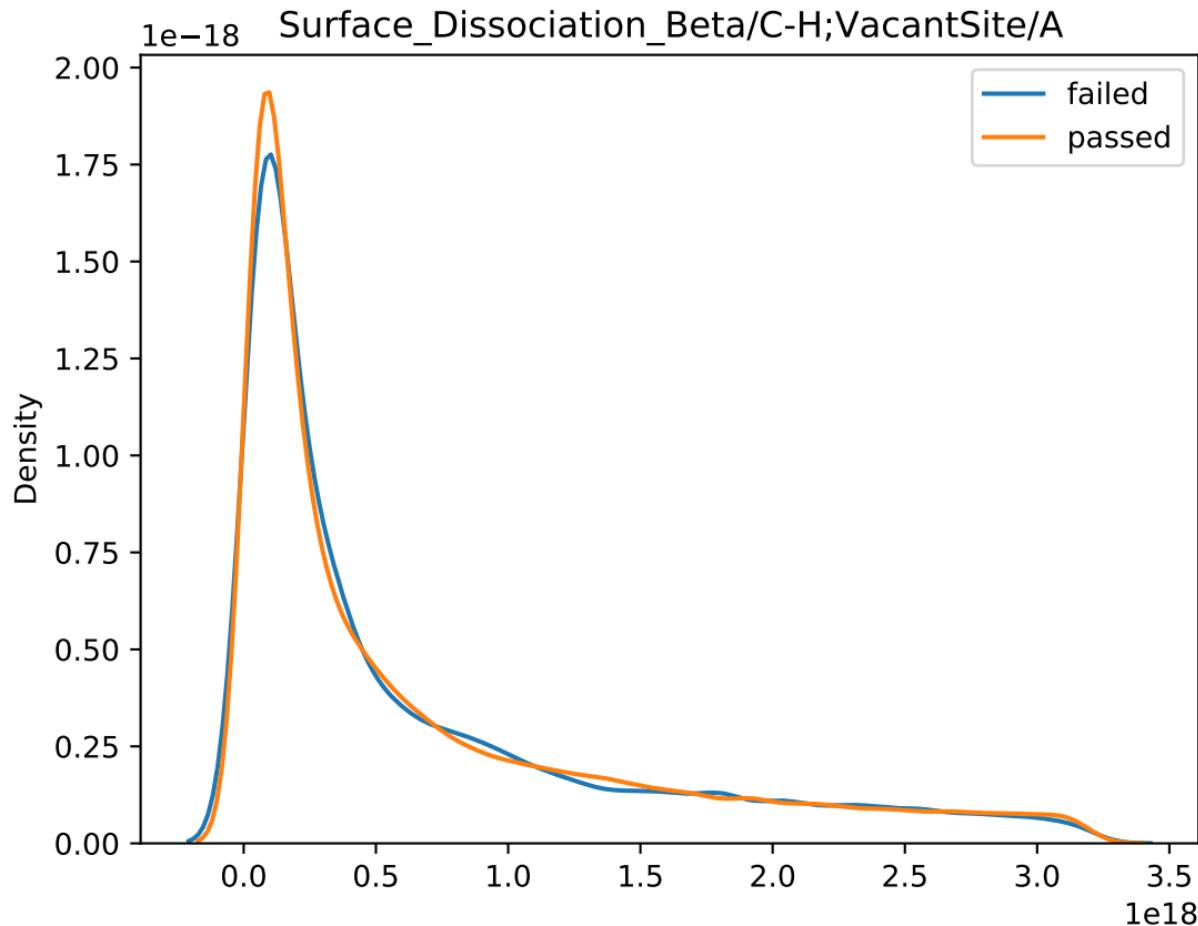


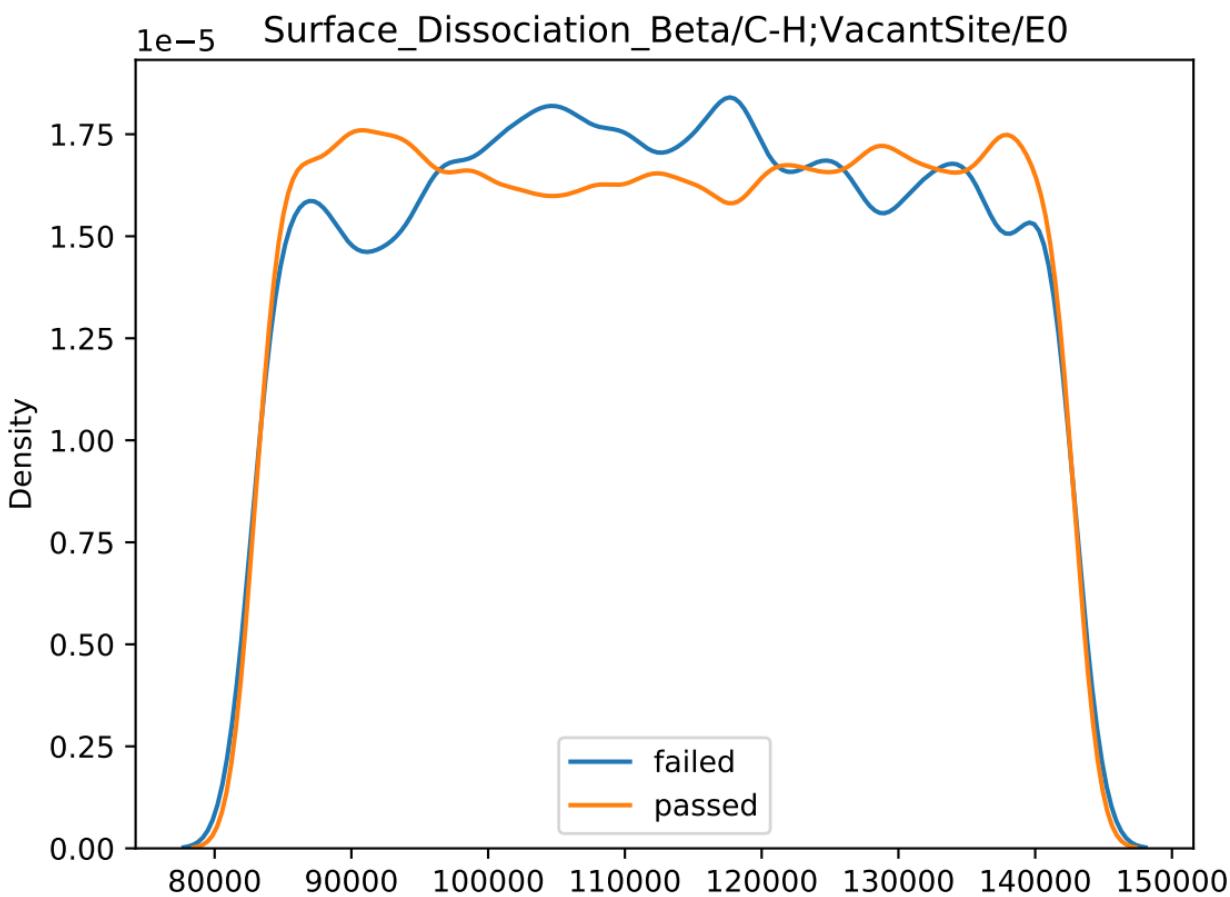
1e- ξ Surface_Dissociation_Beta/Combined;VacantSite/E0



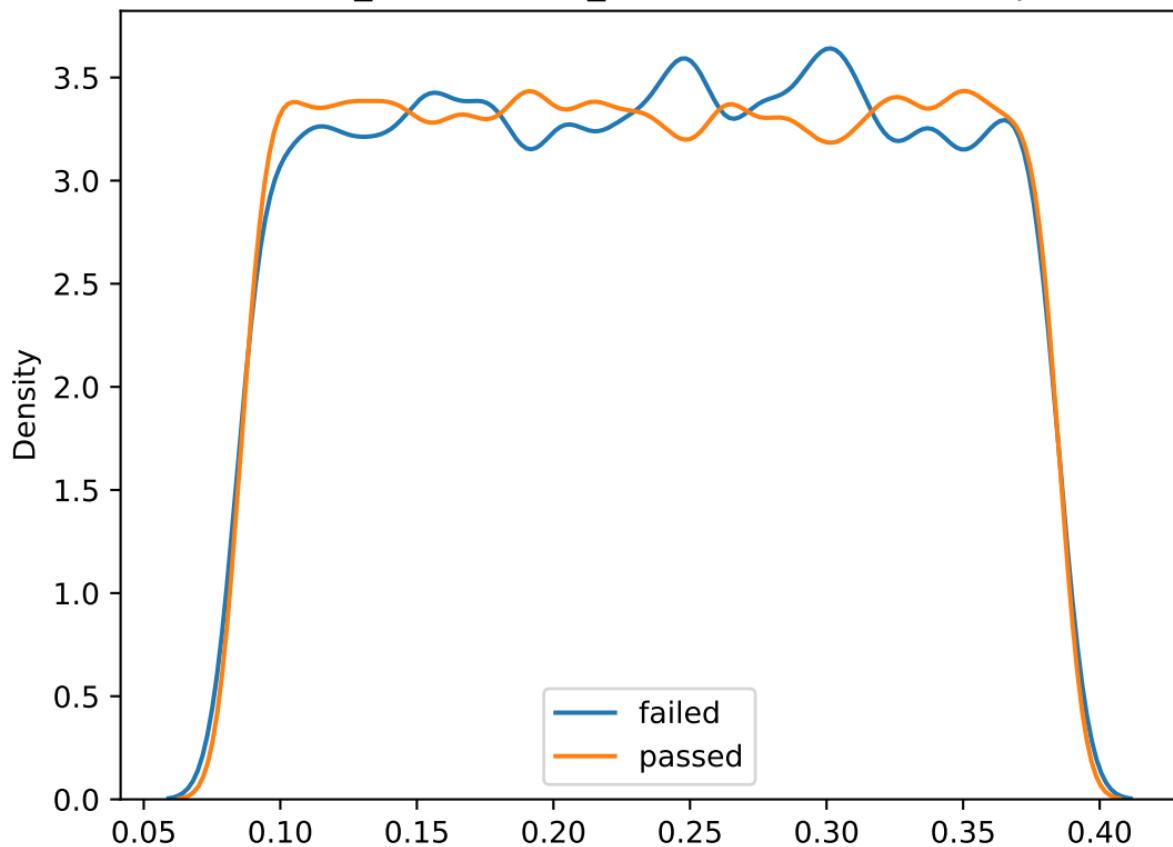
Surface_Dissociation_Beta/C-H;VacantSite/alpha

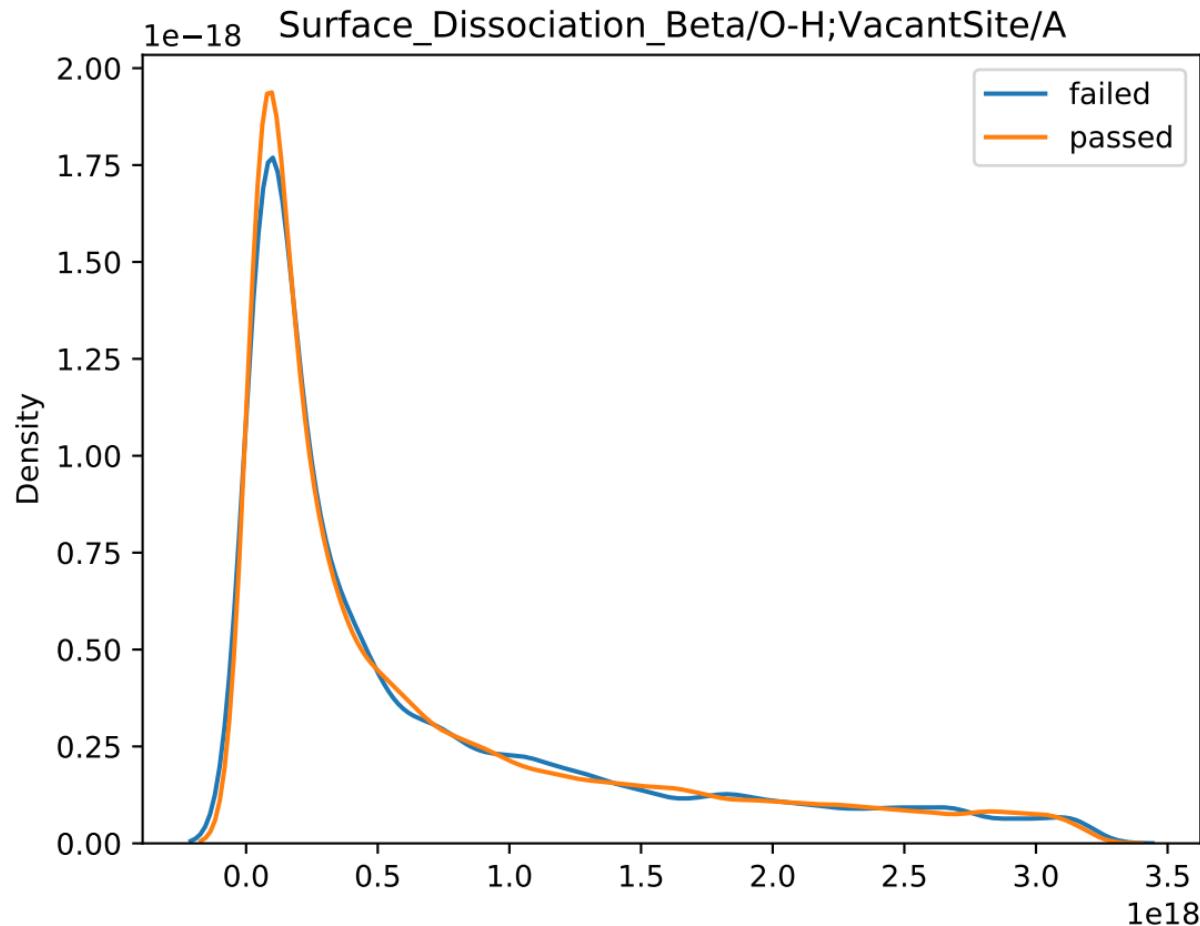


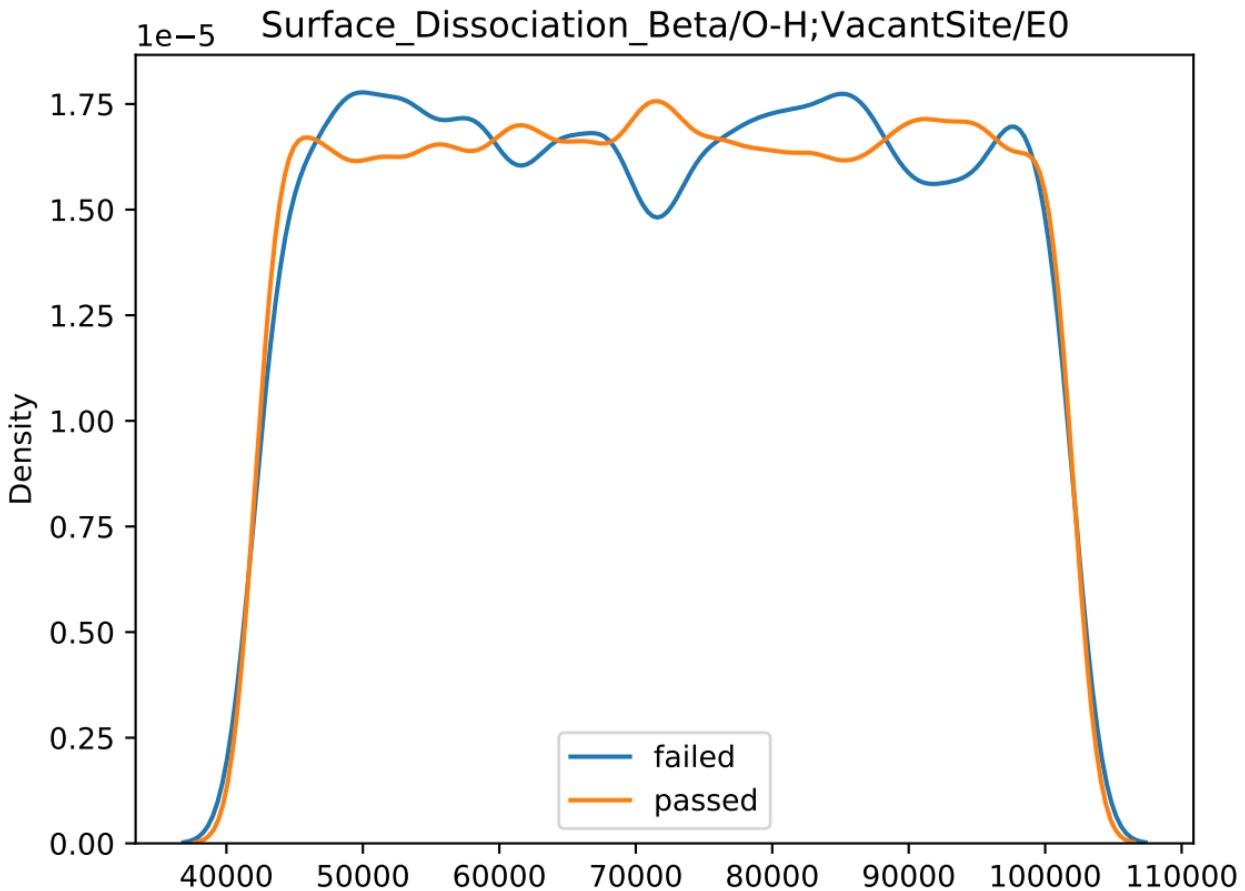




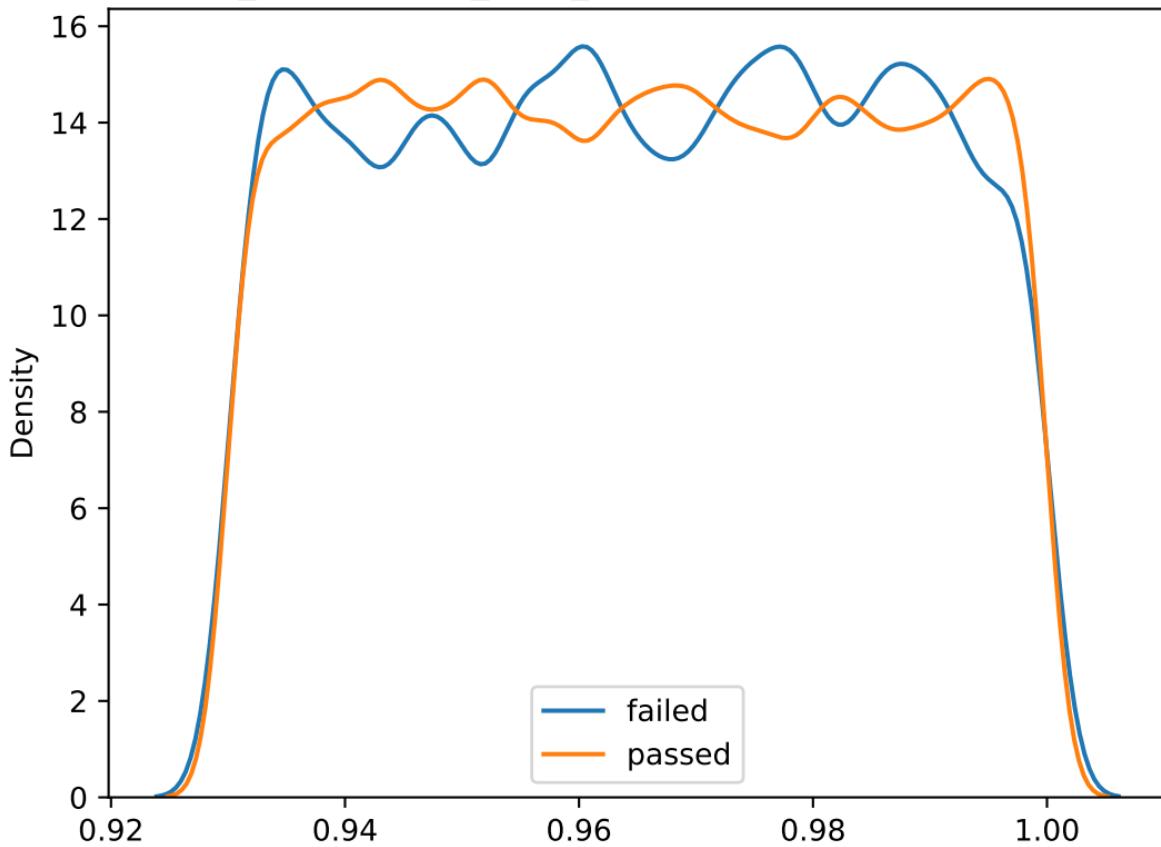
Surface_Dissociation_Beta/O-H;VacantSite/alpha

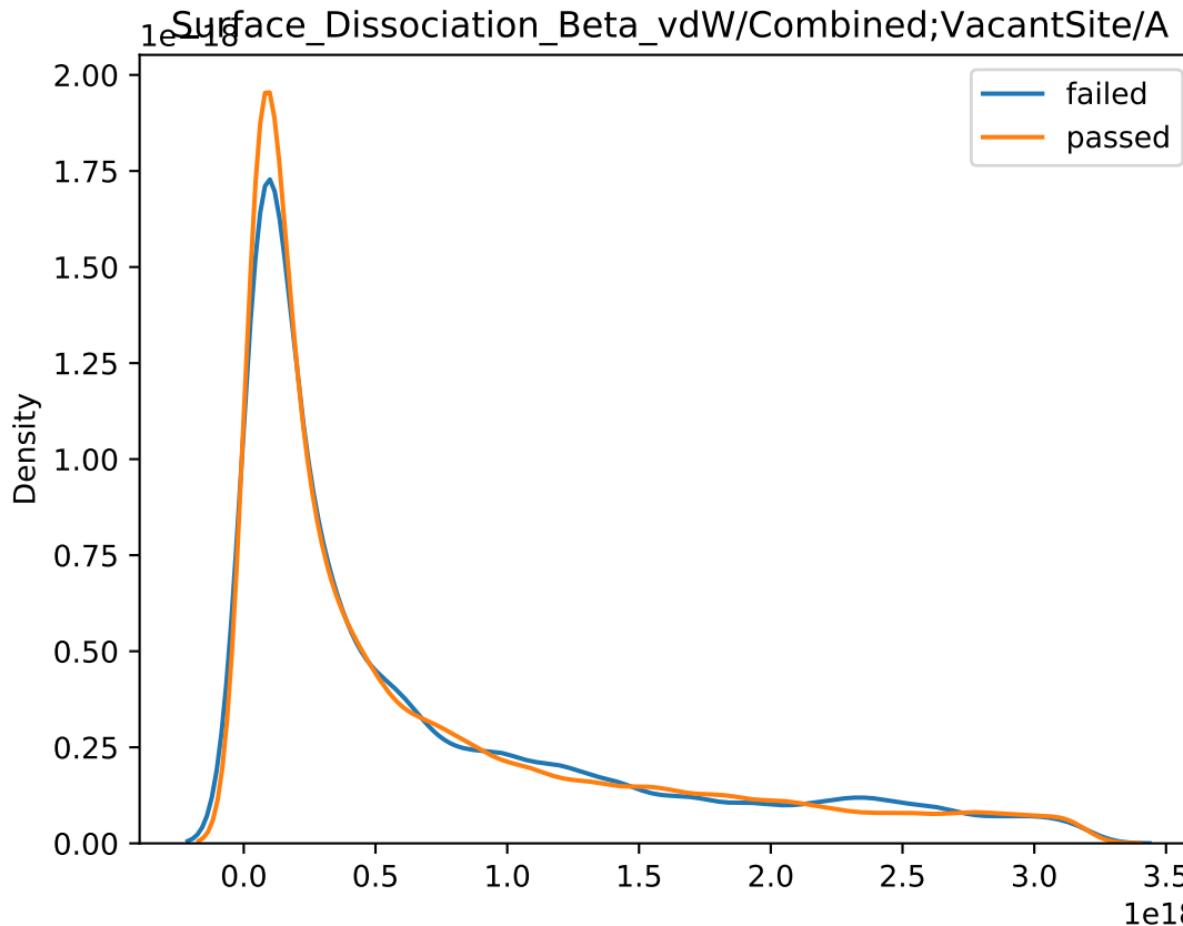




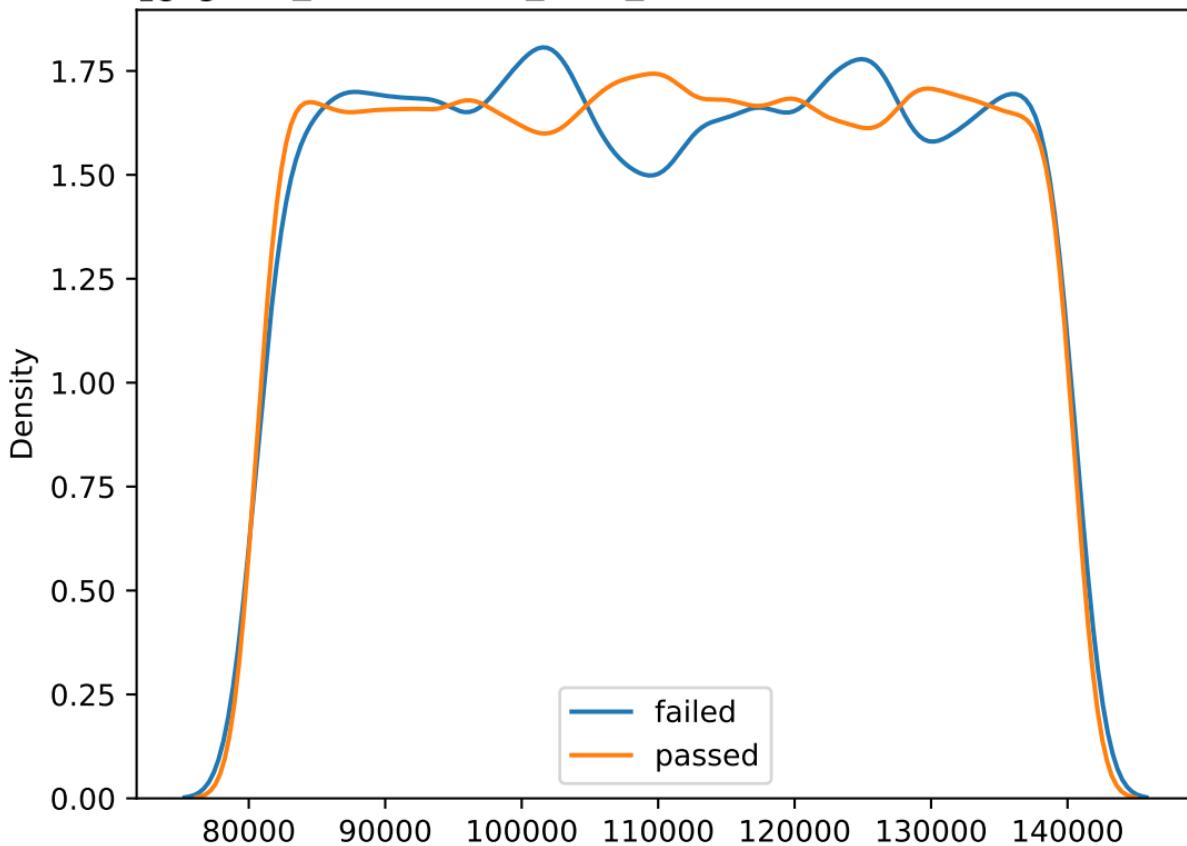


Surface_Dissociation_Beta_vdW/Combined;VacantSite/alpha

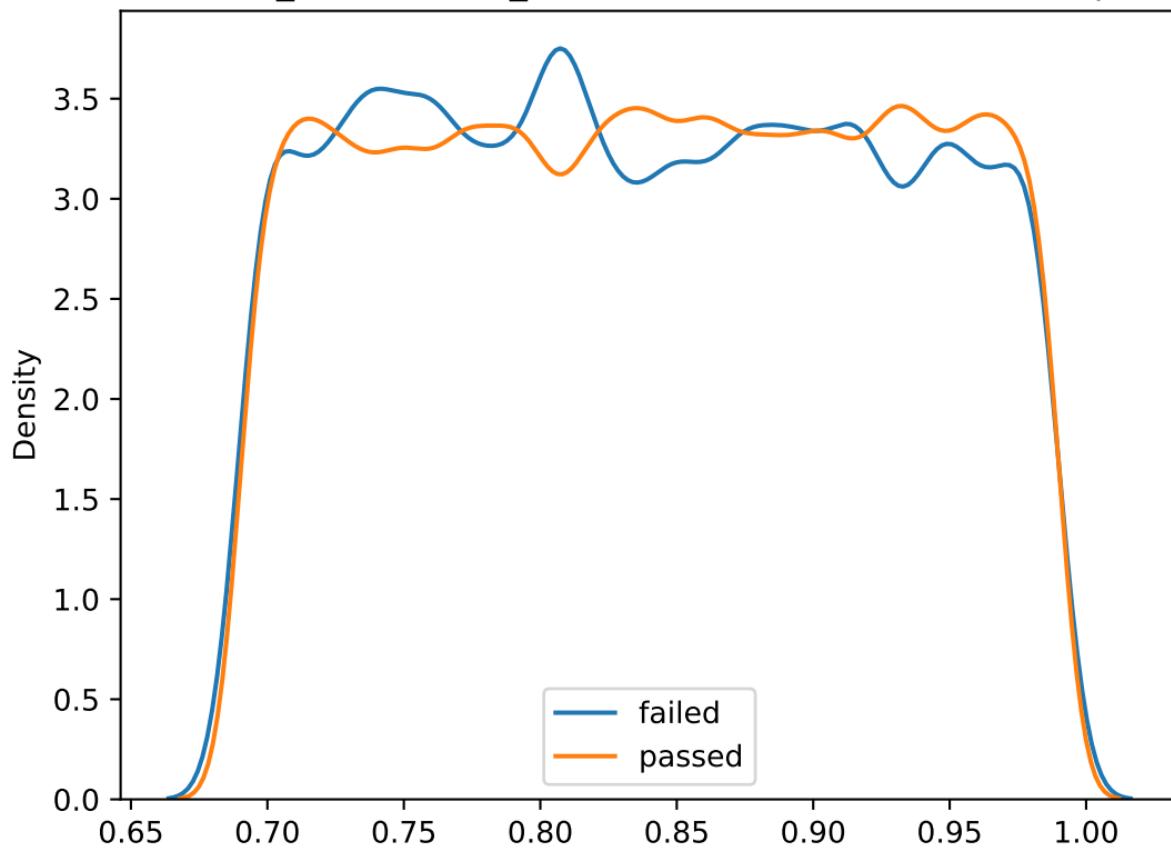


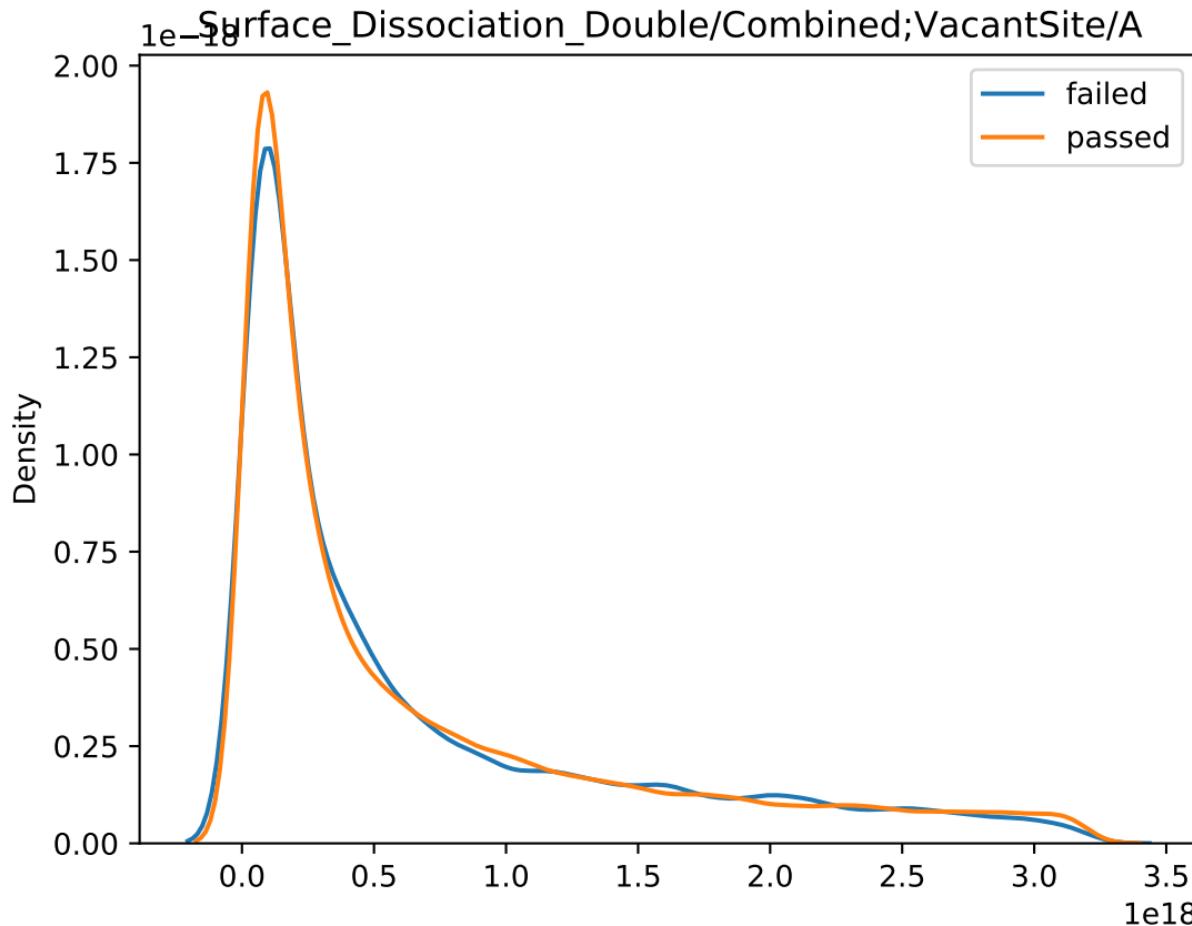


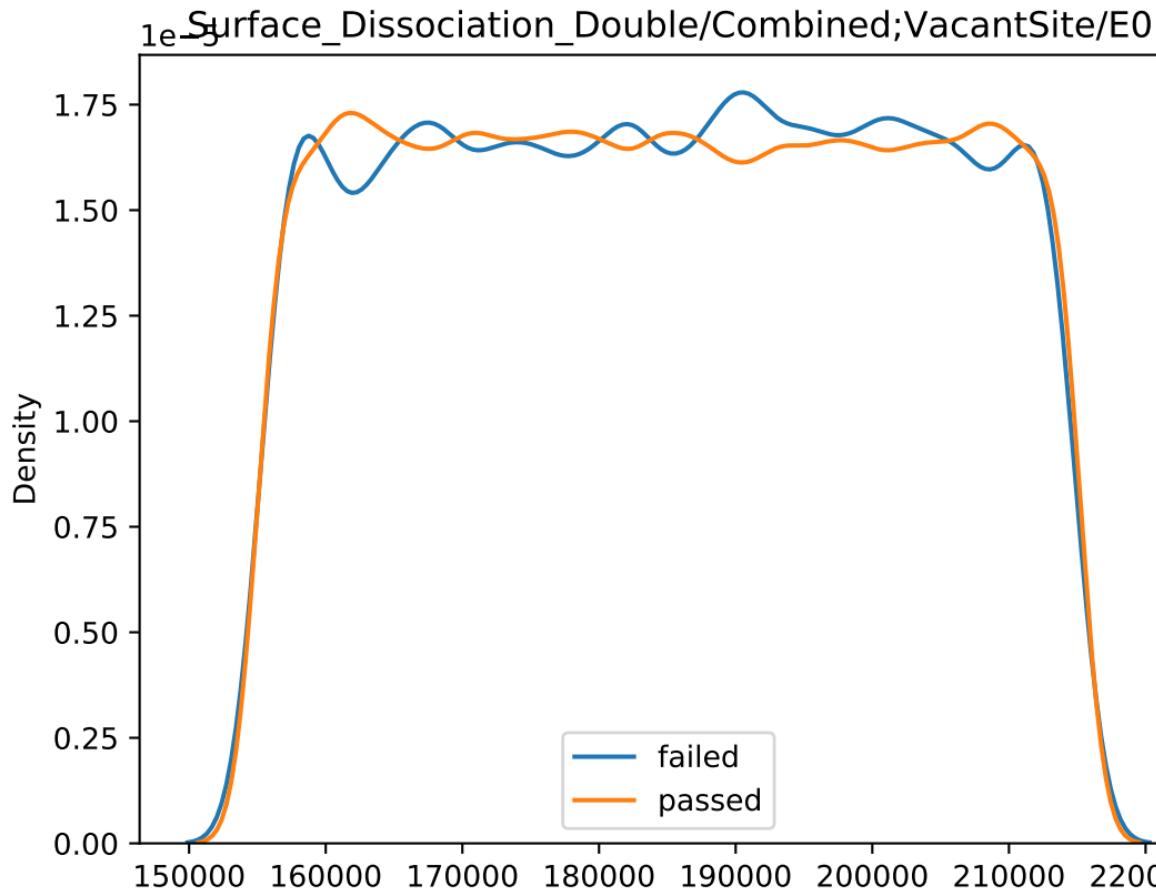
$1S_{1/2}$ Surface Dissociation Beta_vdW/Combined; VacantSite/E0



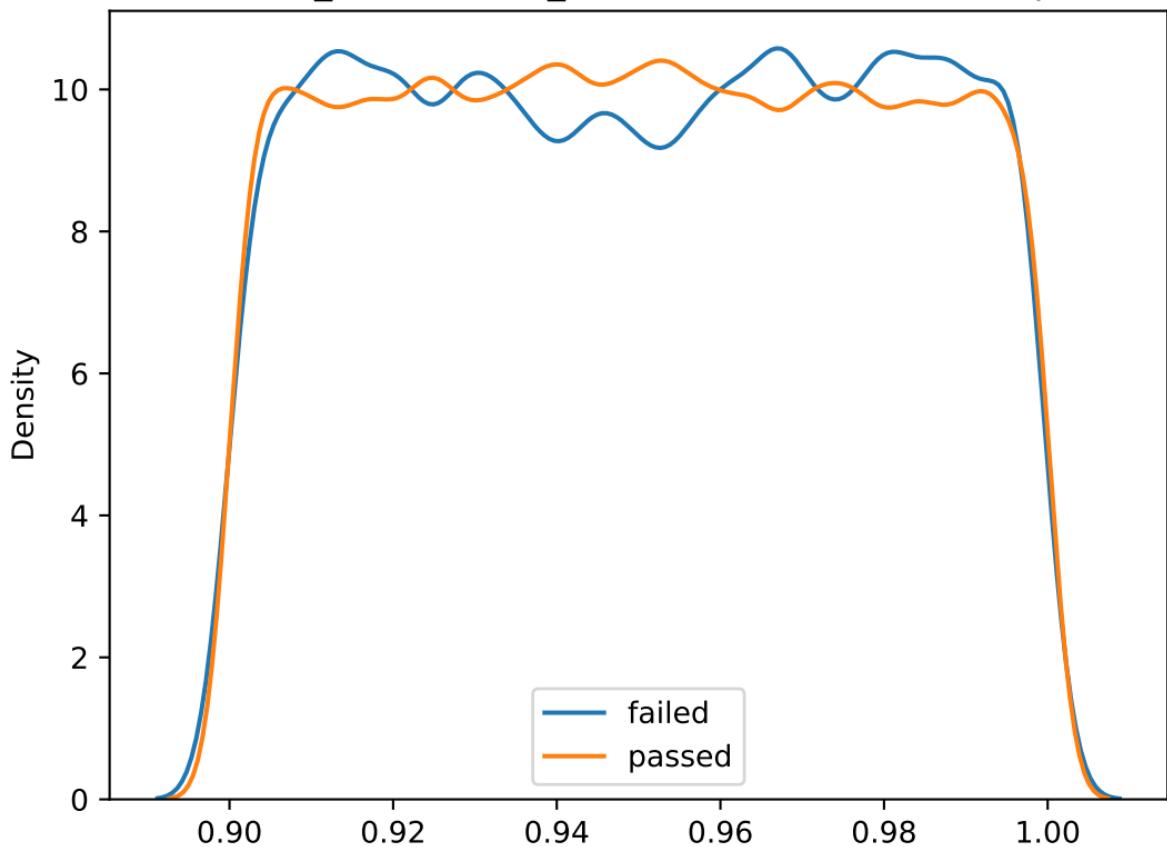
Surface_Dissociation_Double/Combined;VacantSite/alpha

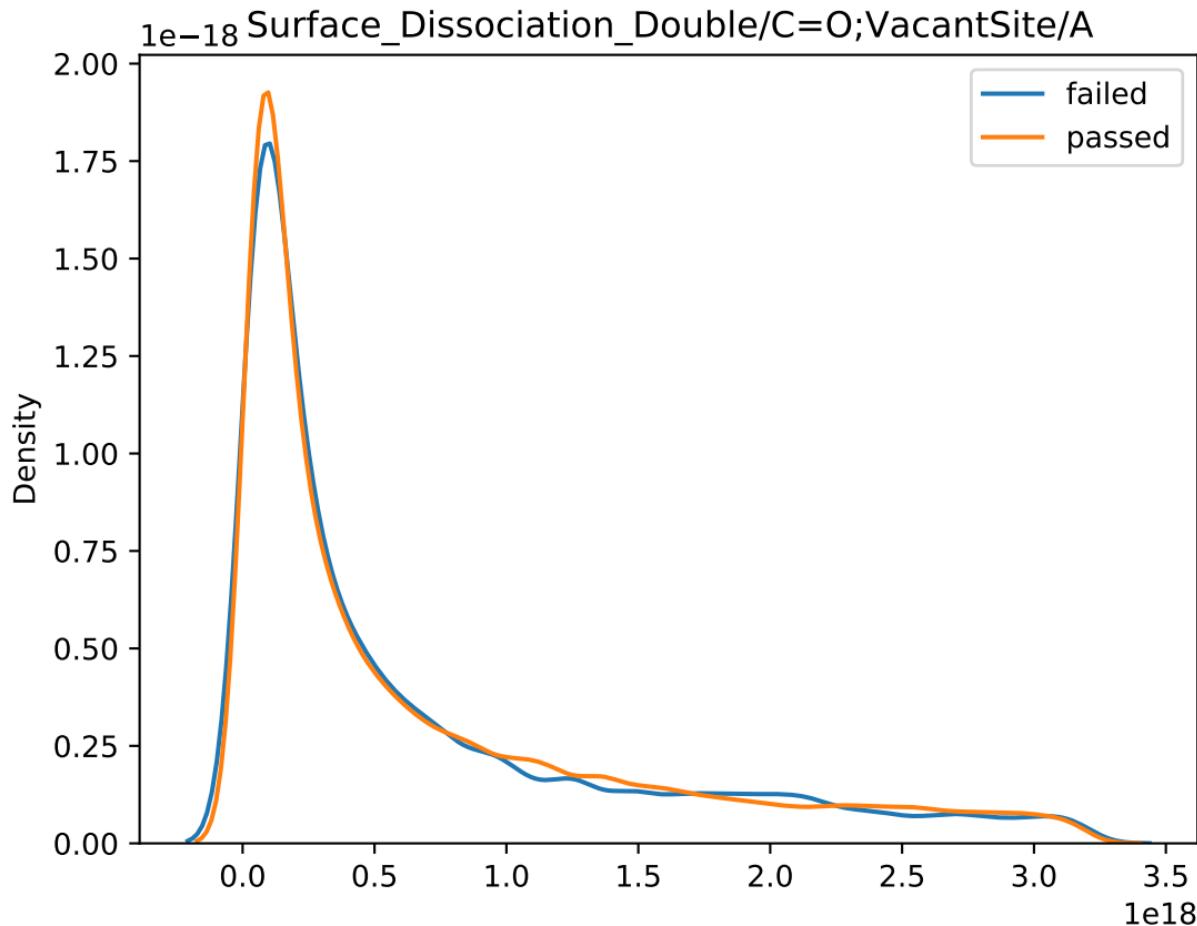


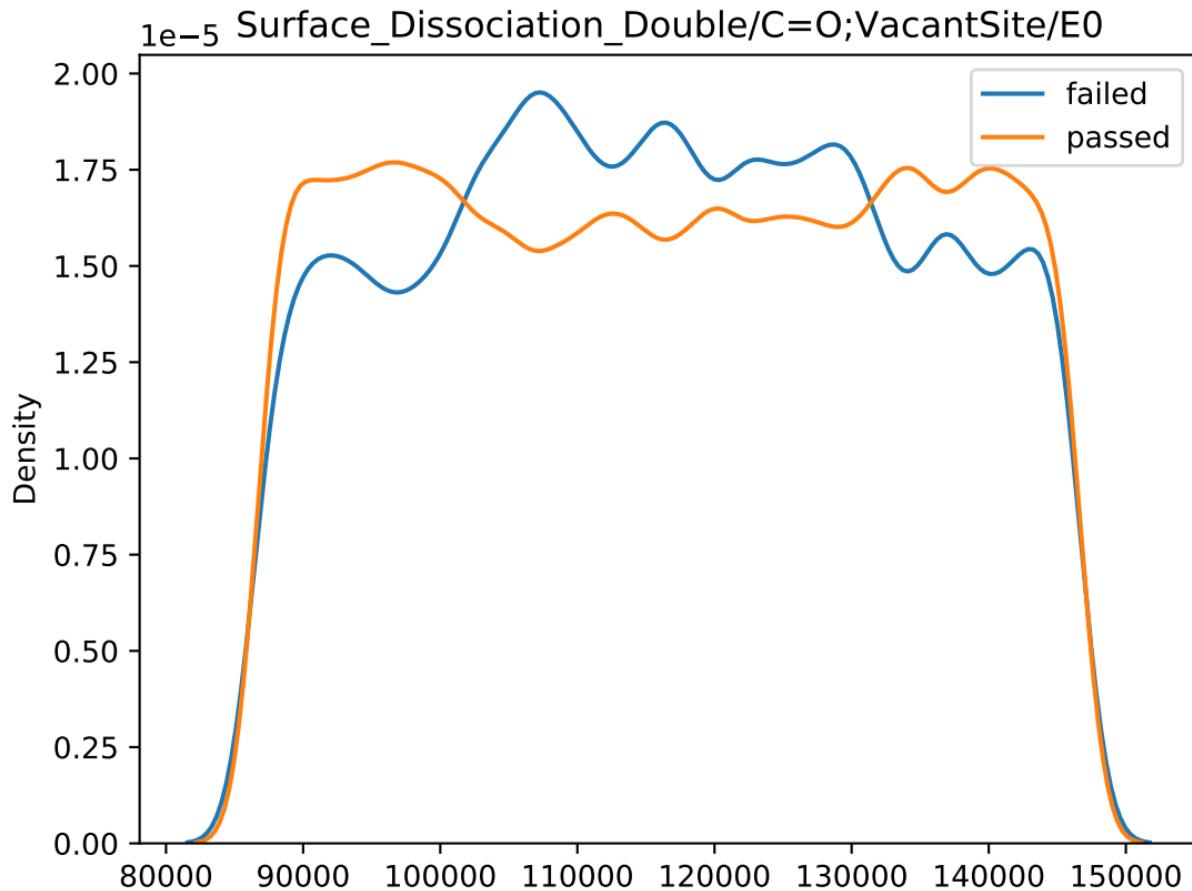




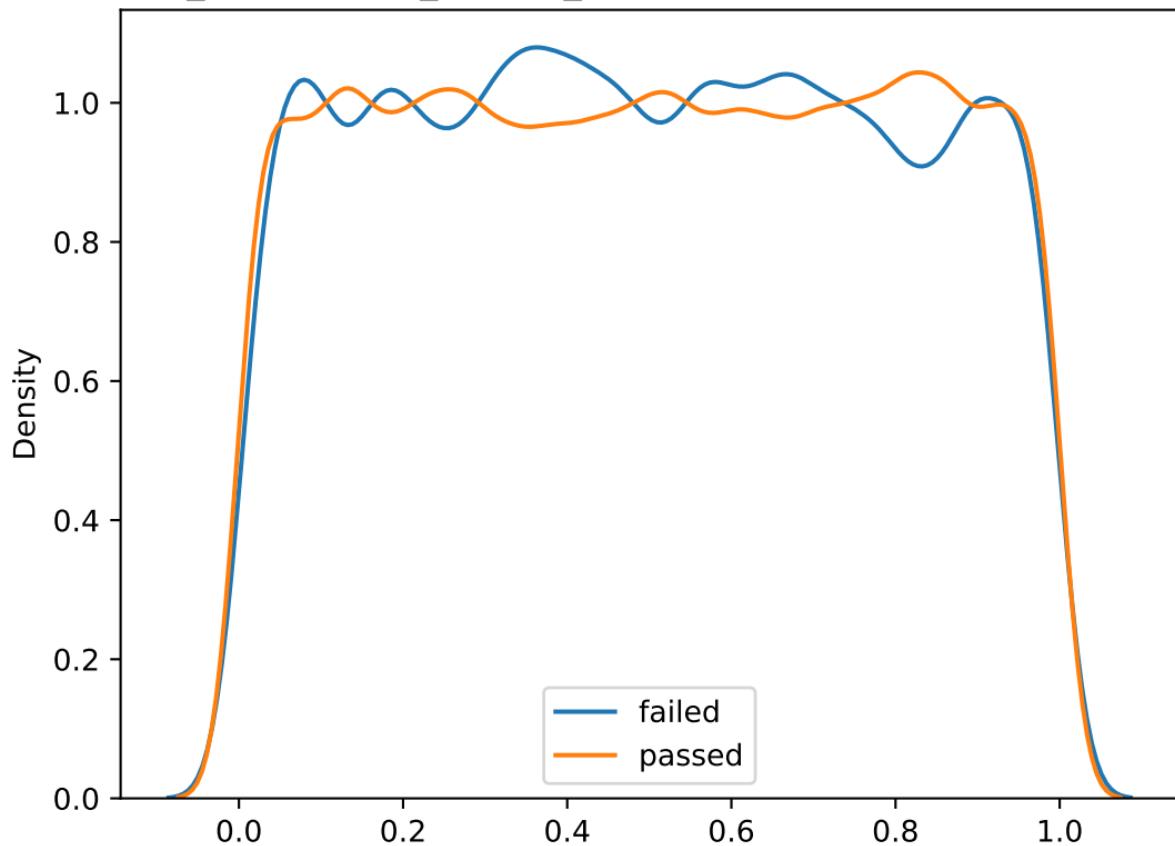
Surface_Dissociation_Double/C=O;VacantSite/alpha



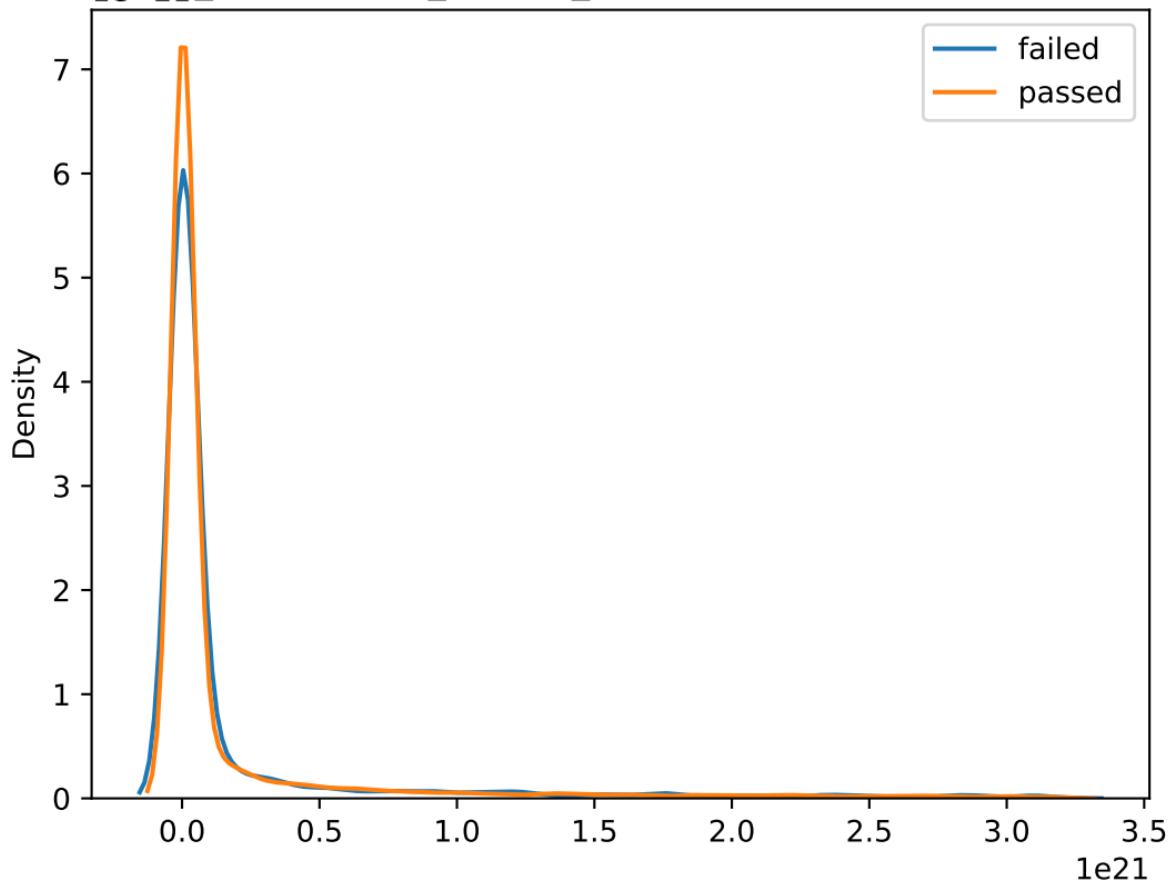




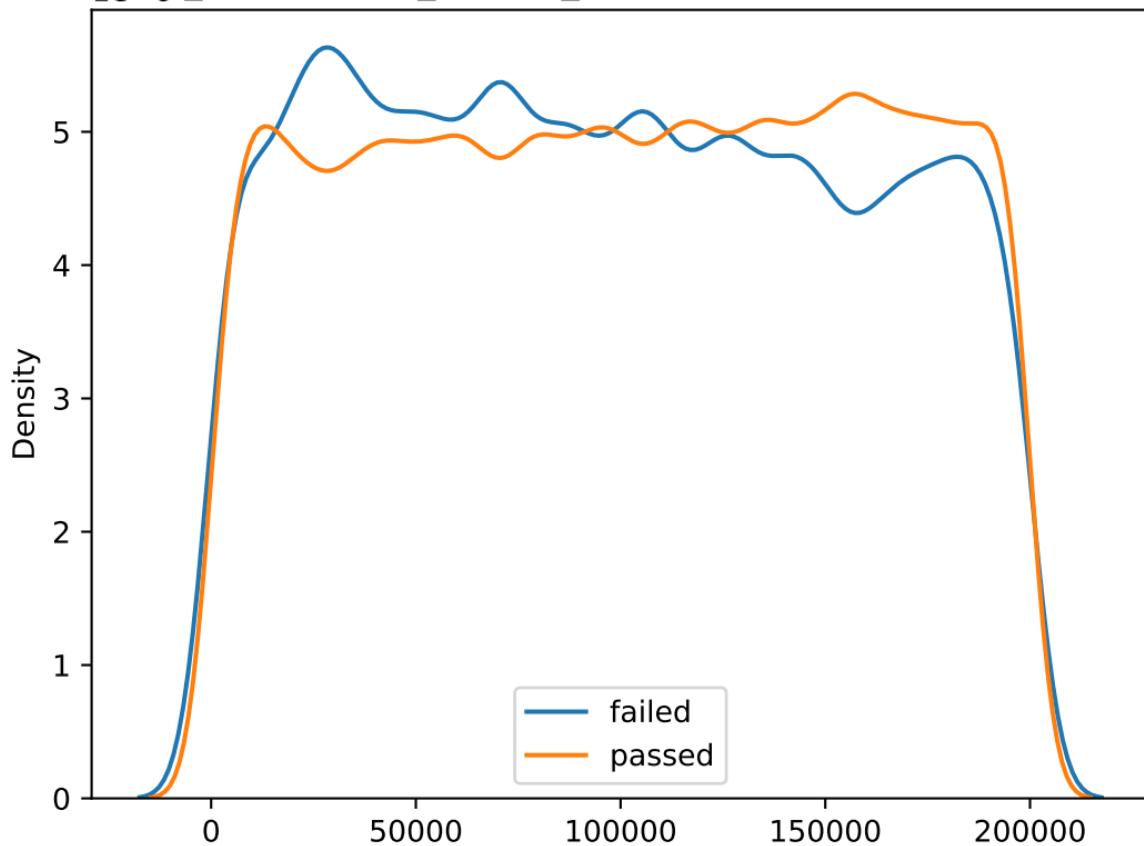
Surface_Dissociation_Double_vdW/AdsorbateVdW;VacantSite/alpha



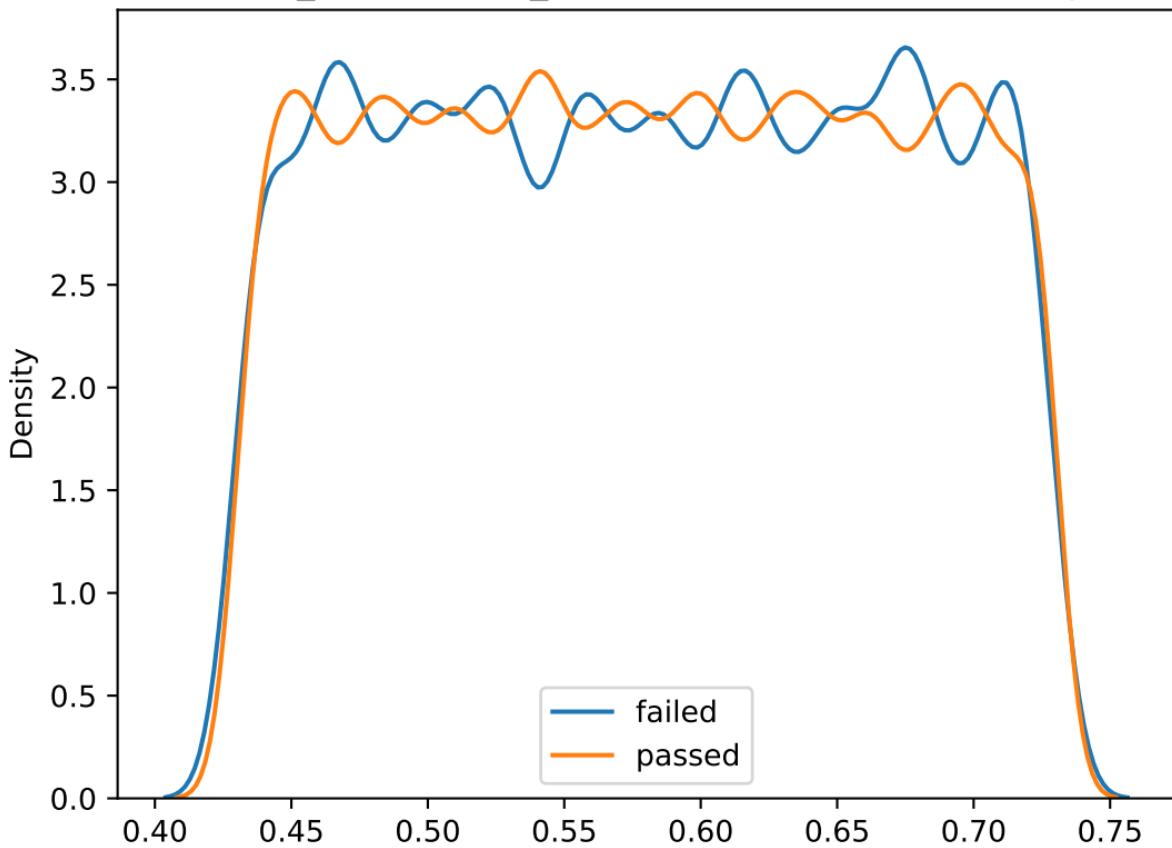
Surface_Dissociation_Double_vdW/AdsorbateVdW;VacantSite/A

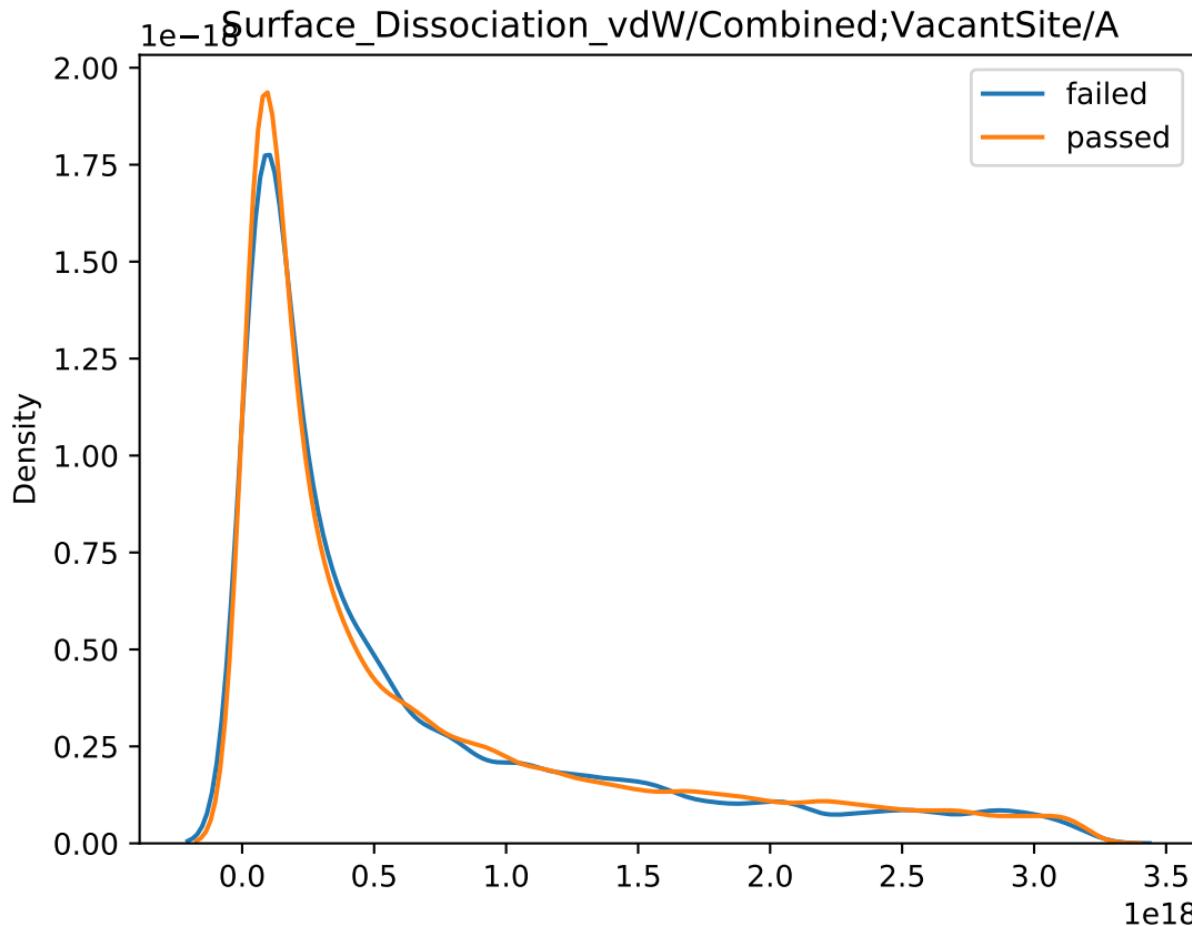


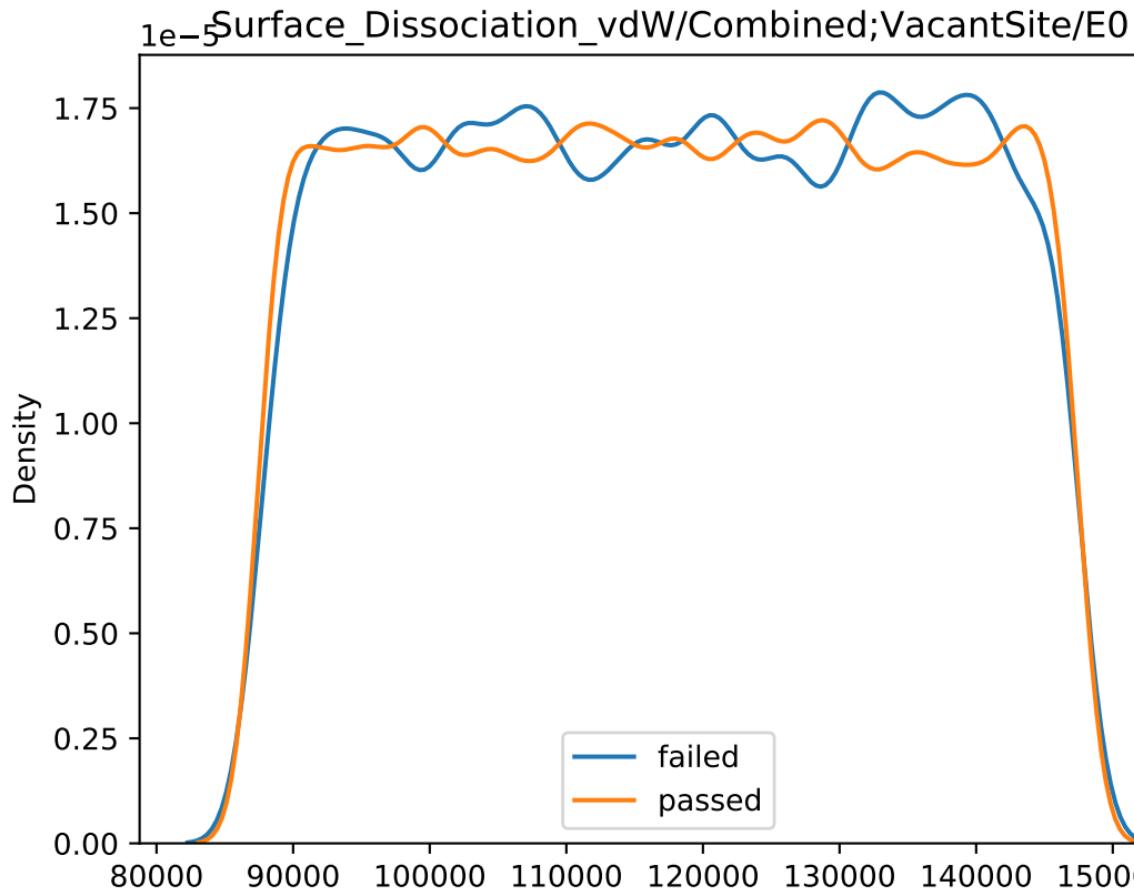
Surface_Dissociation_Double_vdW/AdsorbateVdW;VacantSite/E0



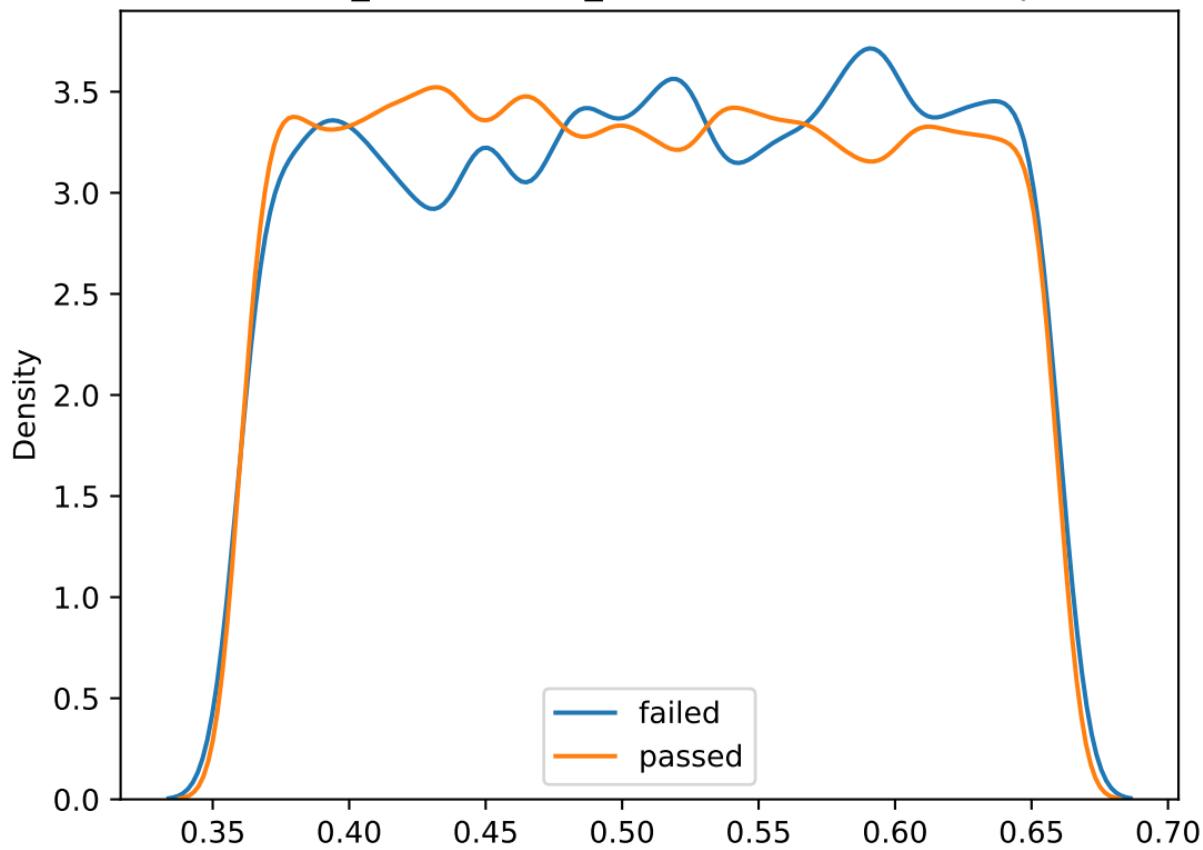
Surface_Dissociation_vdW/Combined;VacantSite/alpha

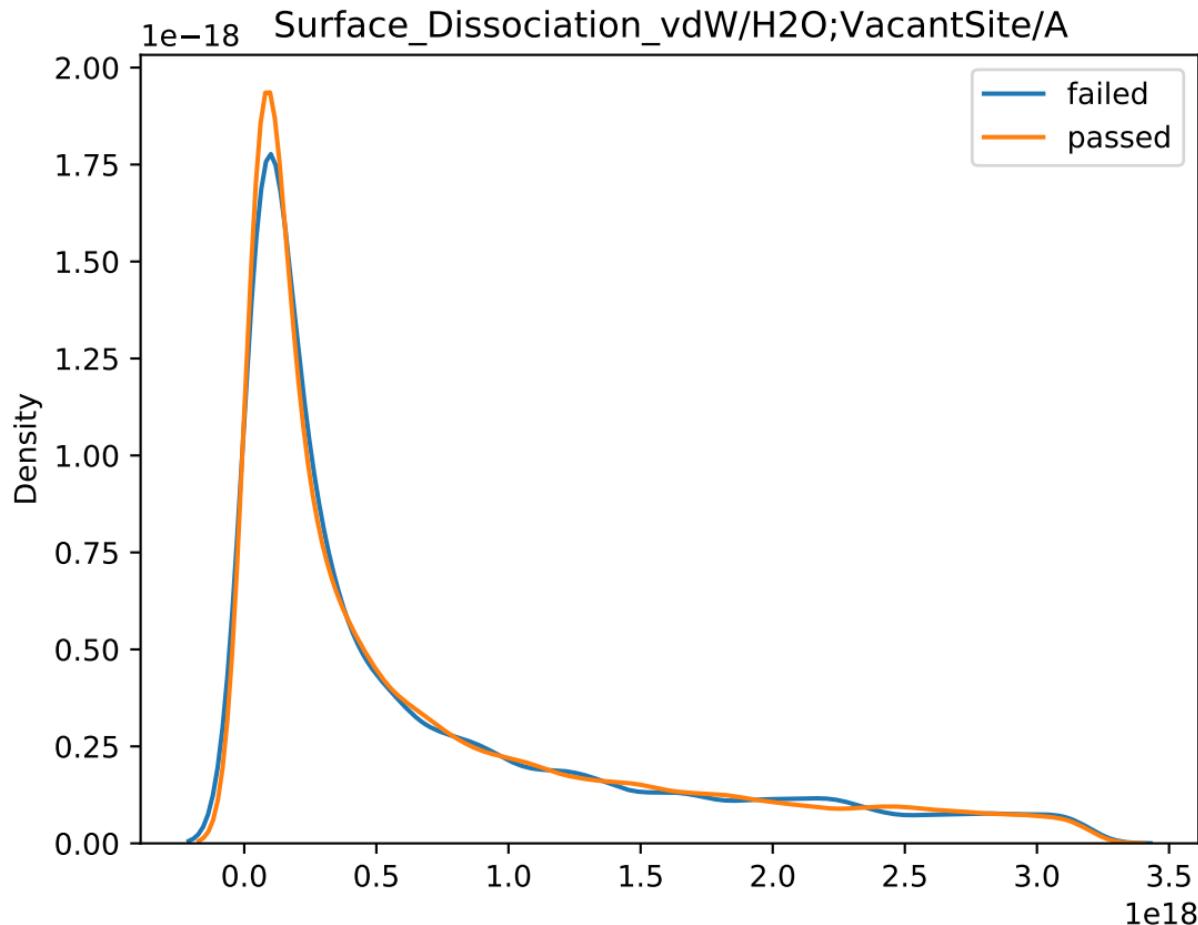


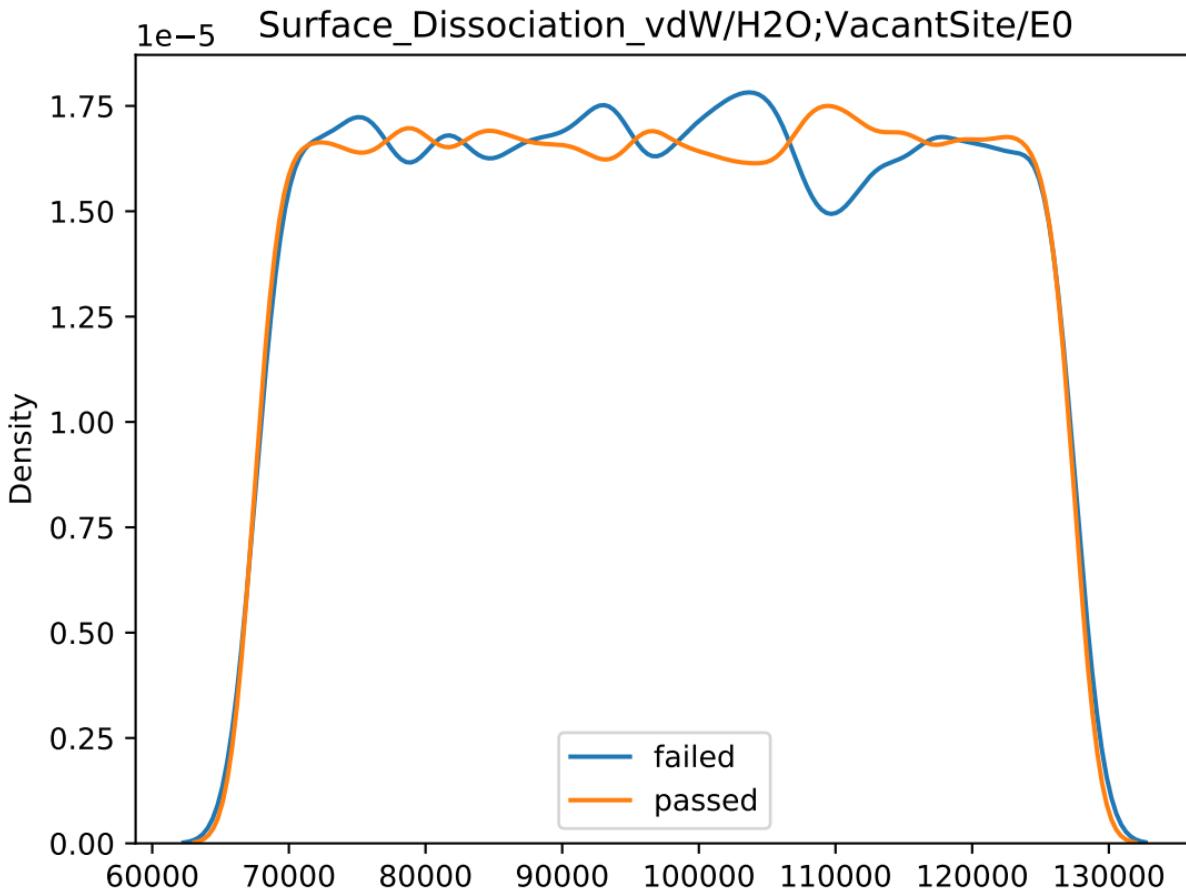




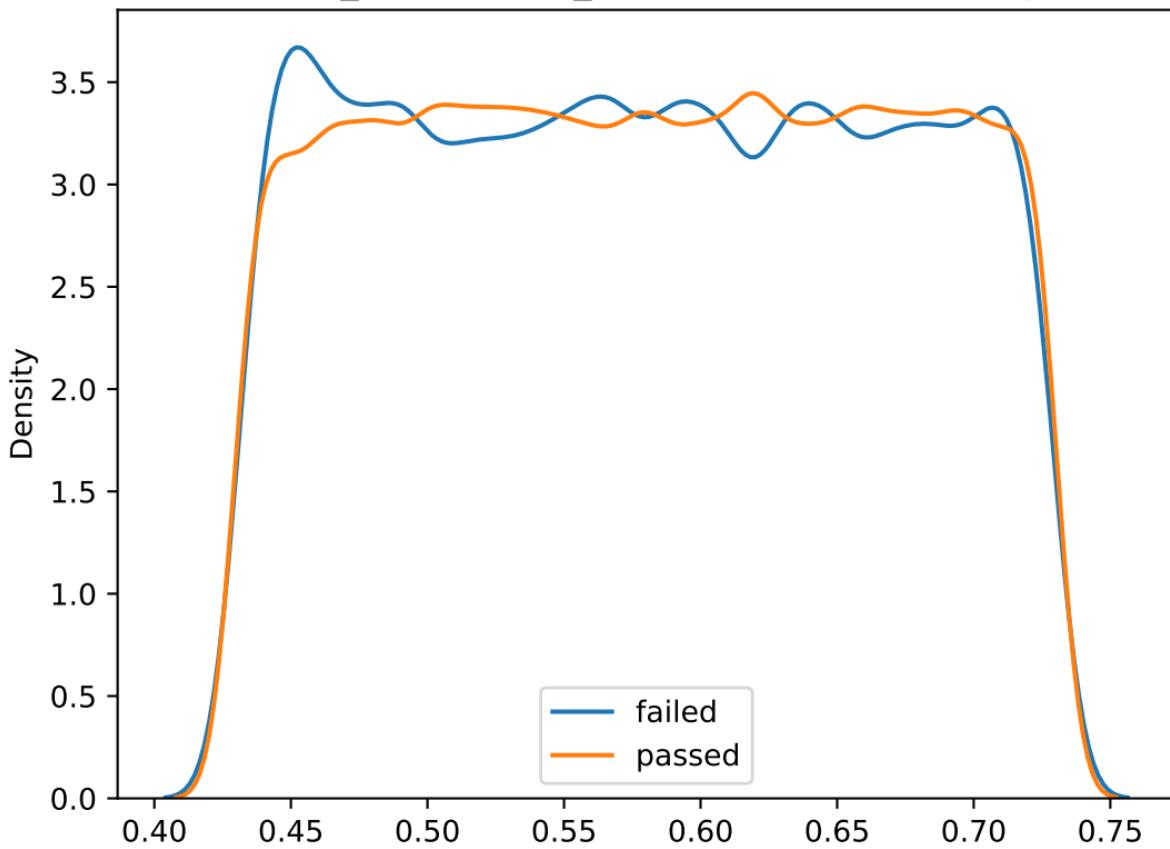
Surface_Dissociation_vdW/H2O;VacantSite/alpha

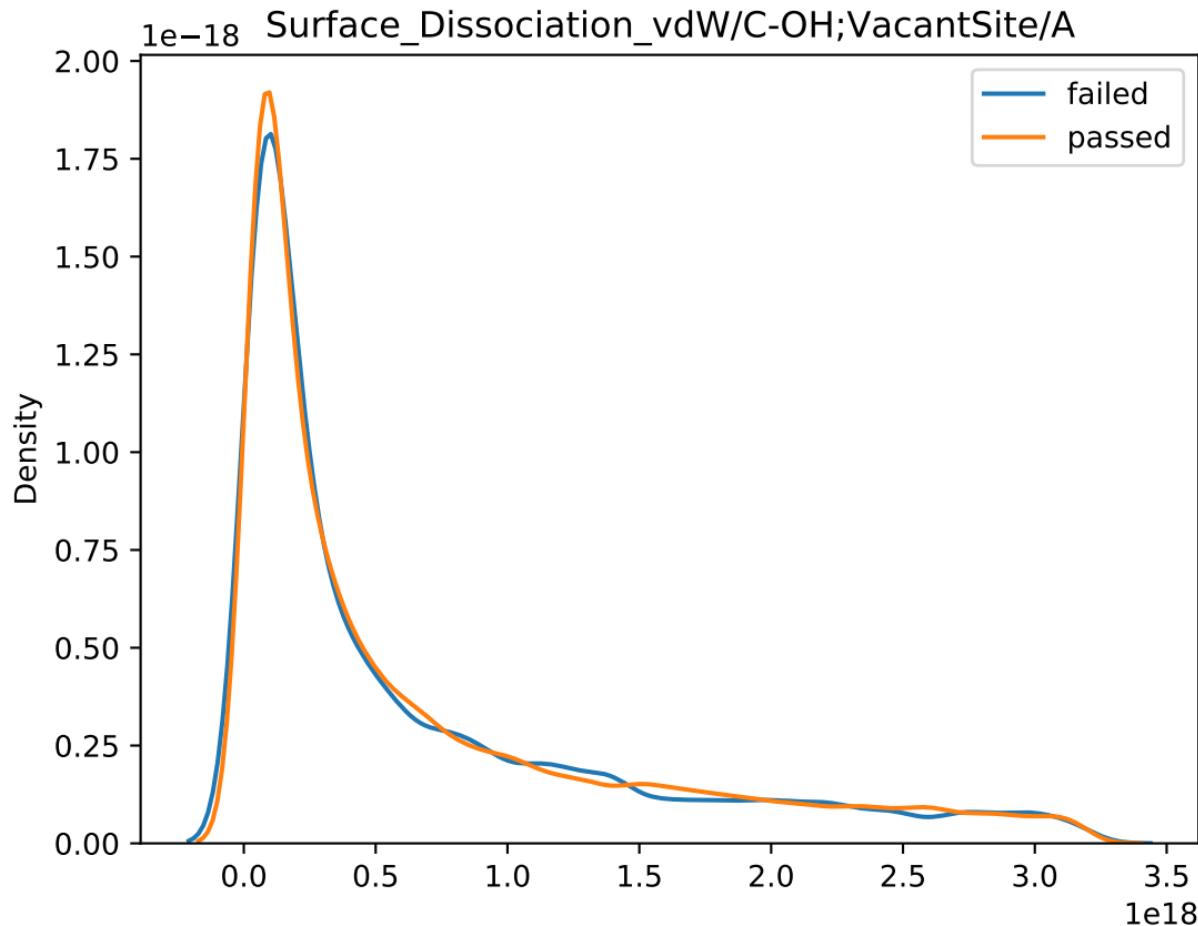




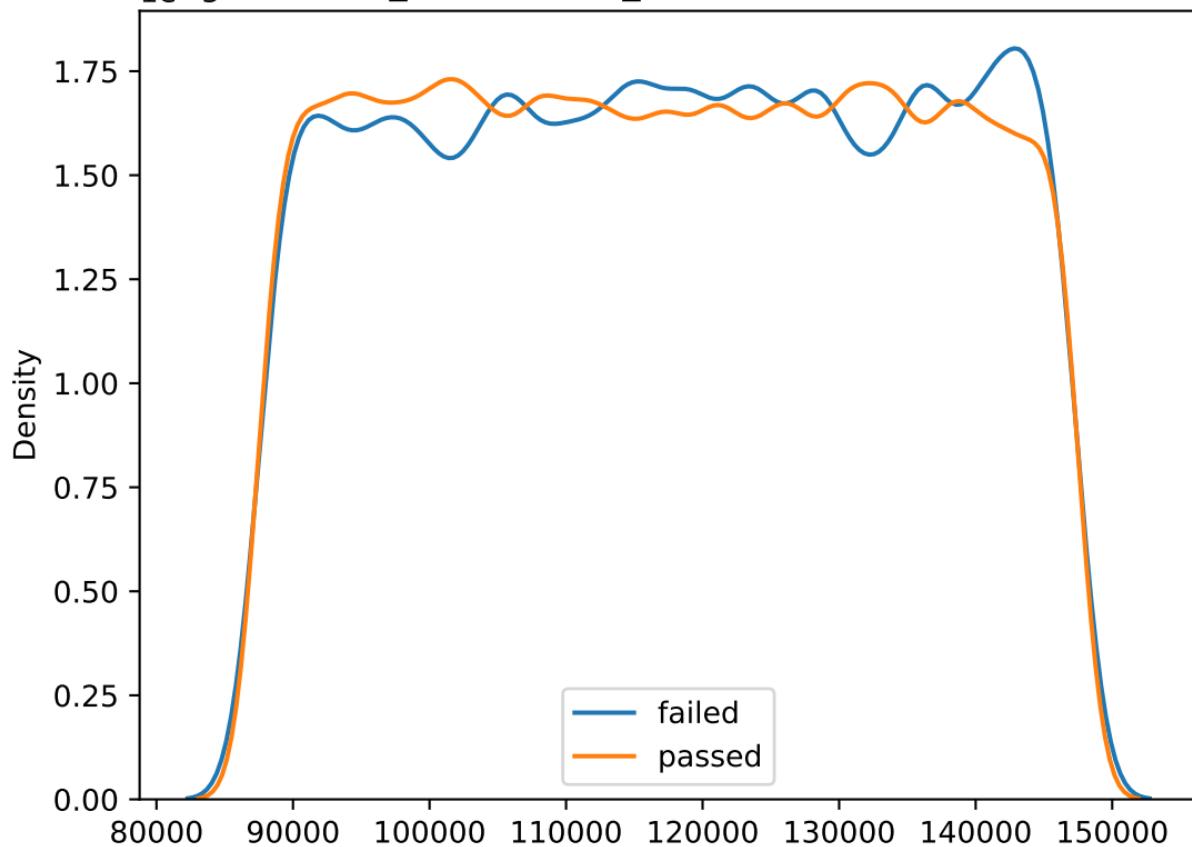


Surface_Dissociation_vdW/C-OH;VacantSite/alpha

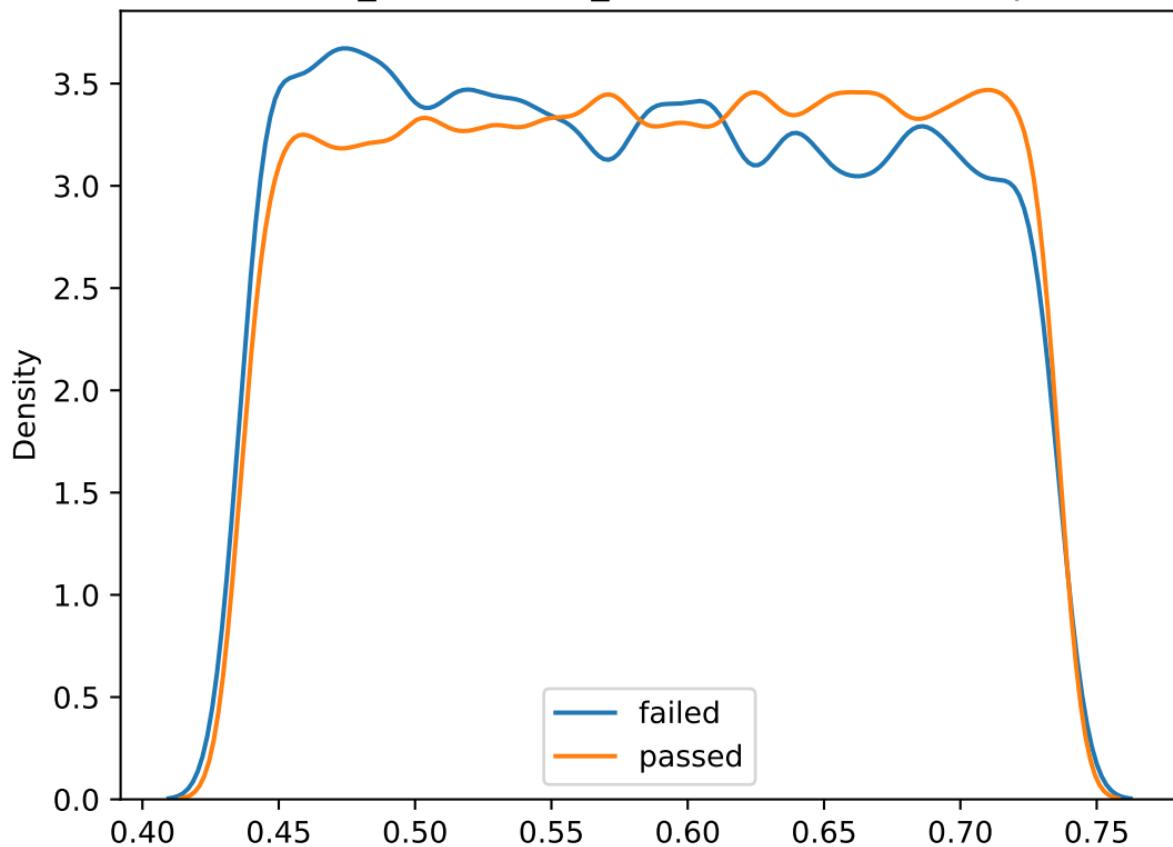


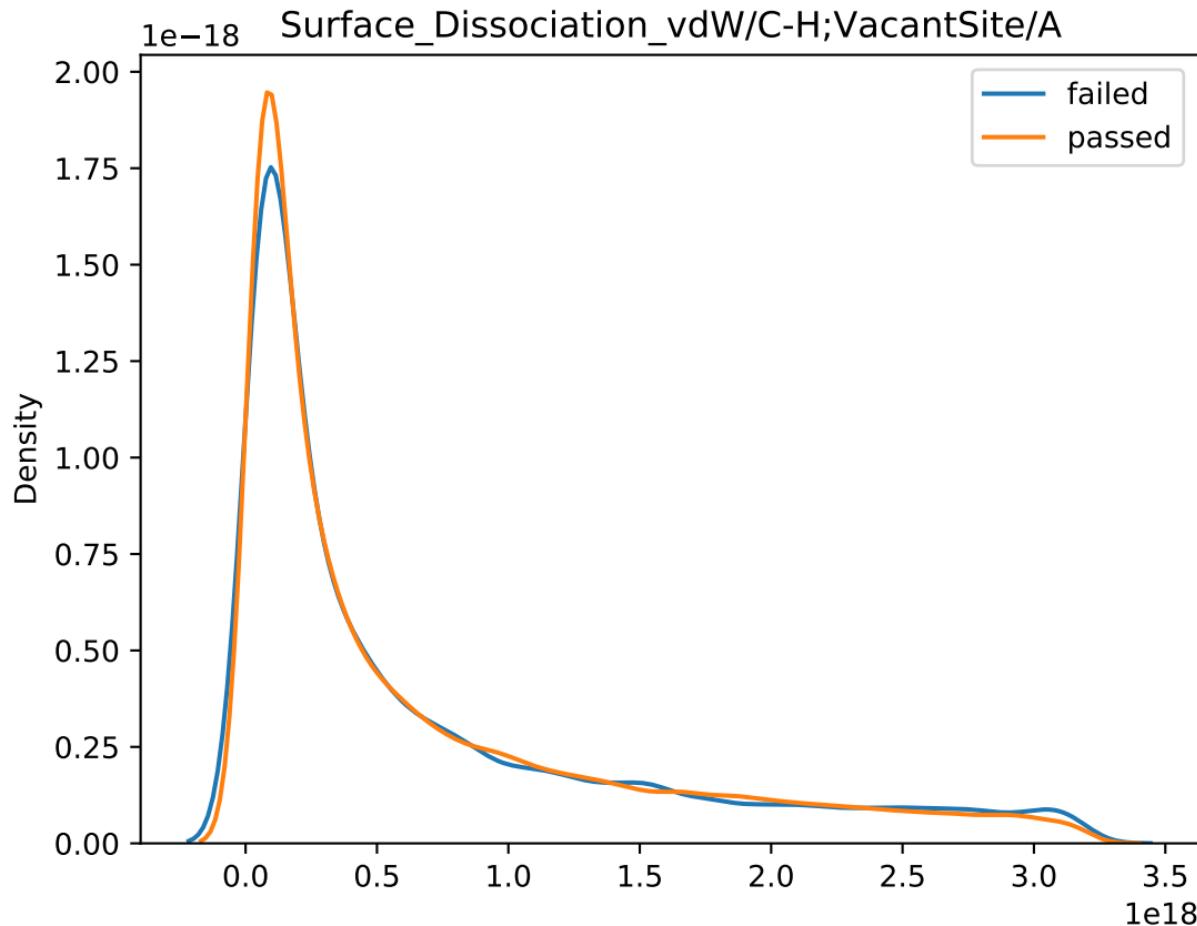


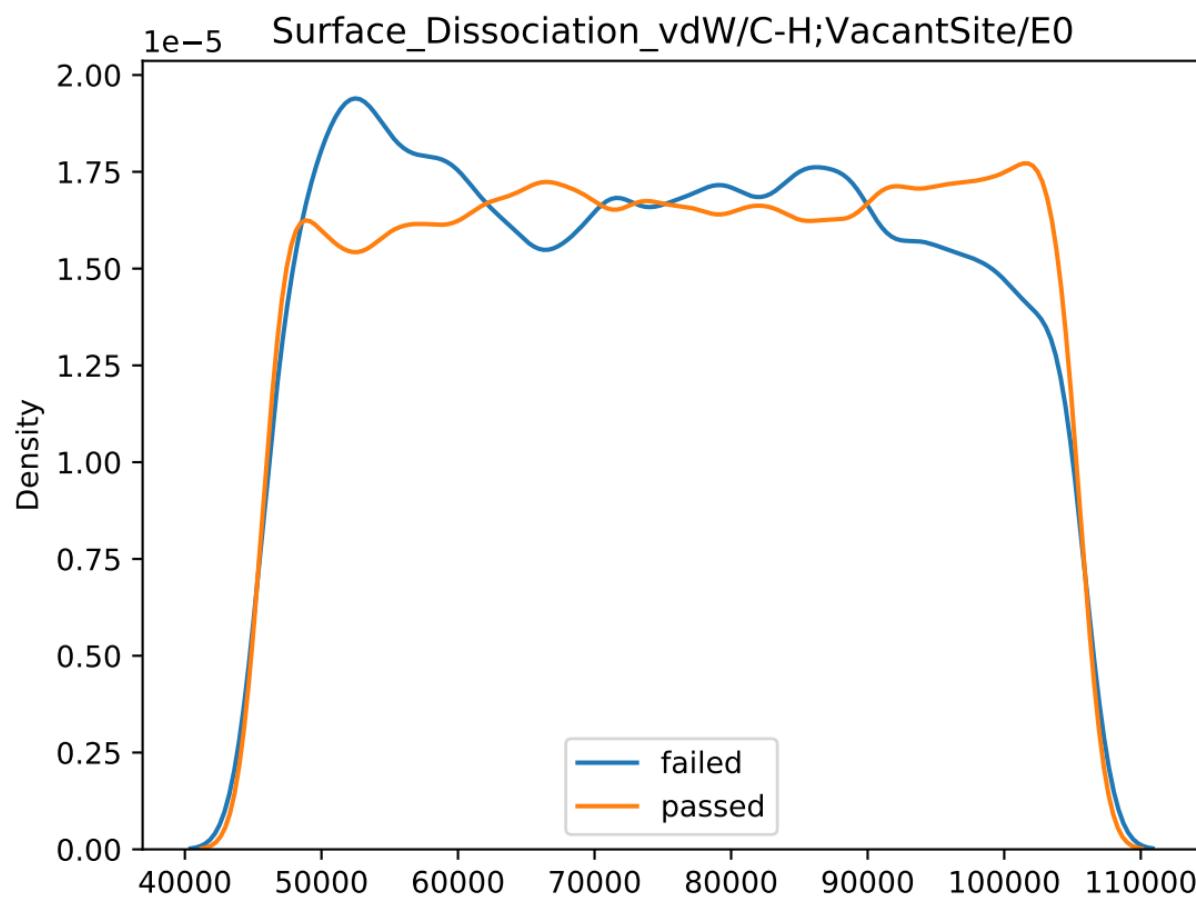
1e-5 Surface_Dissociation_vdW/C-OH;VacantSite/E0



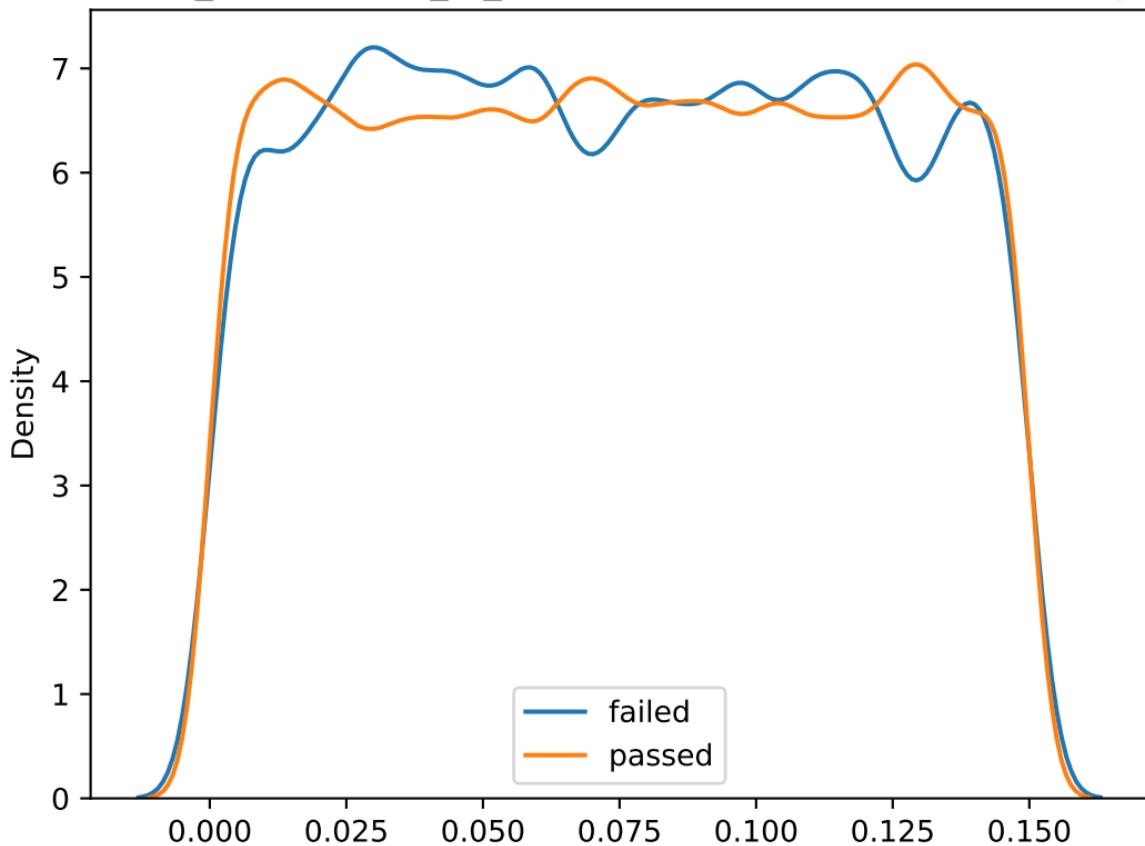
Surface_Dissociation_vdW/C-H;VacantSite/alpha



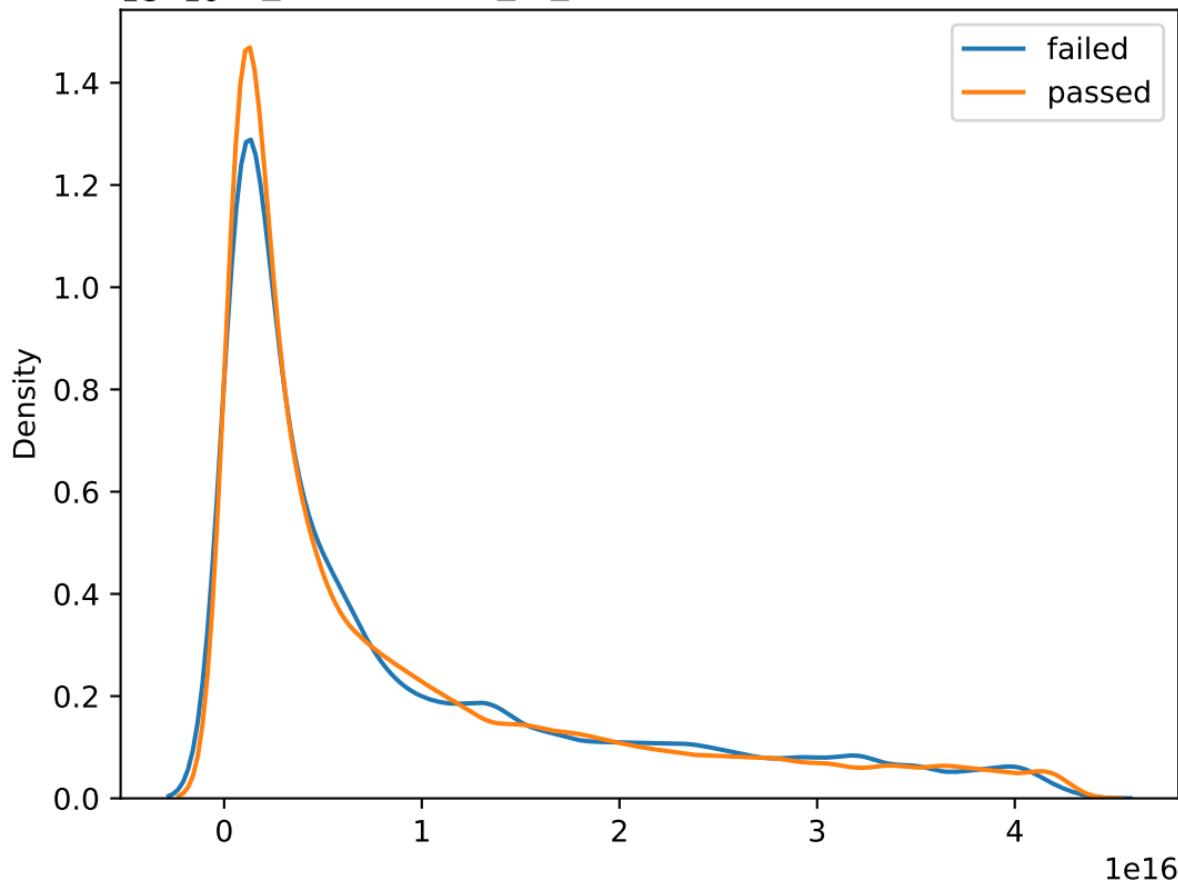




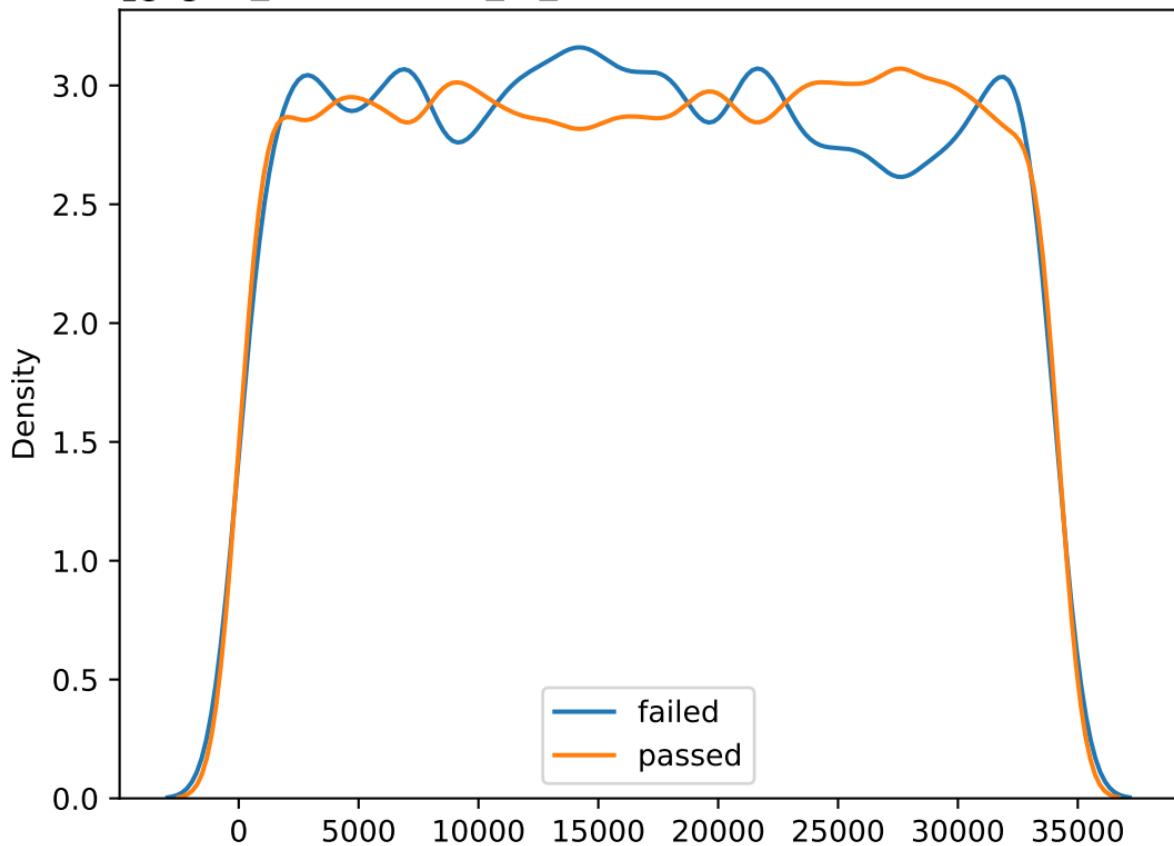
Surface_DoubleBond_to_Bidentate/Combined;VacantSite/alpha



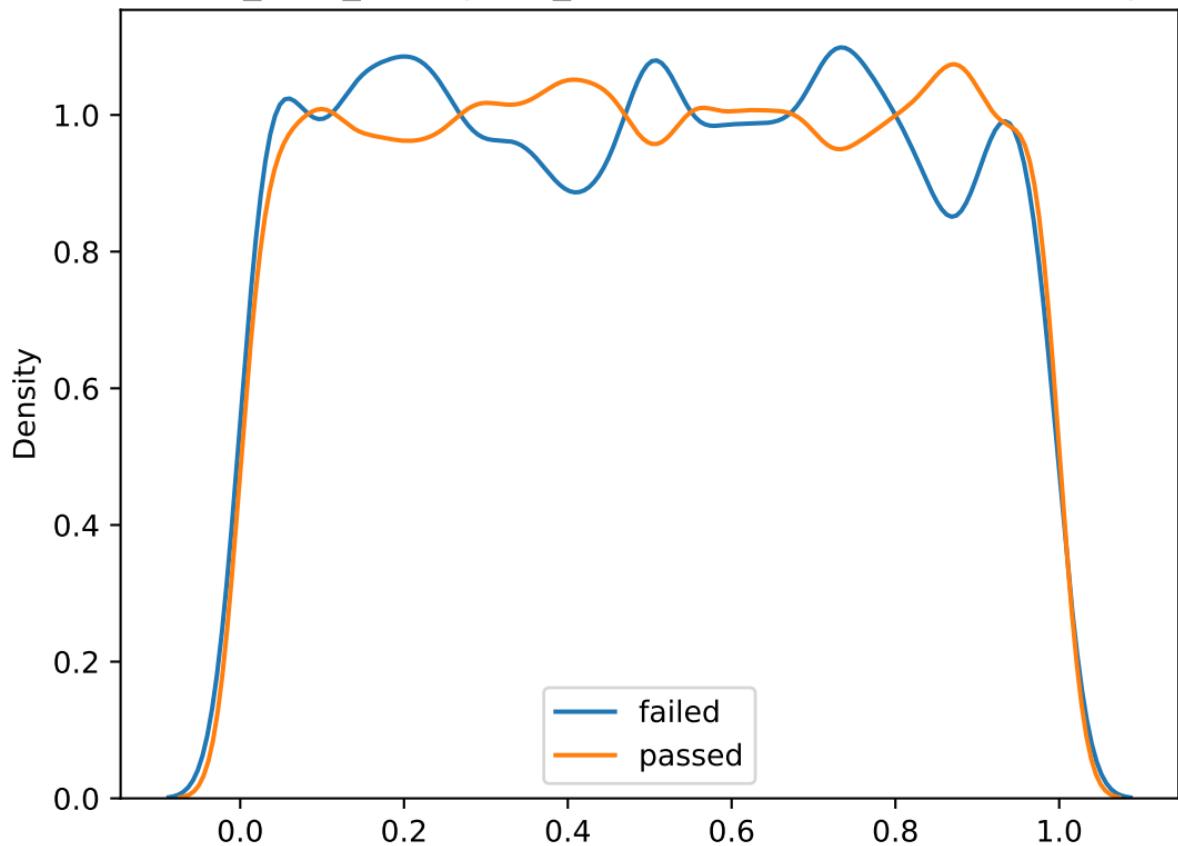
Surface_DoubleBond_to_Bidentate/Combined;VacantSite/A



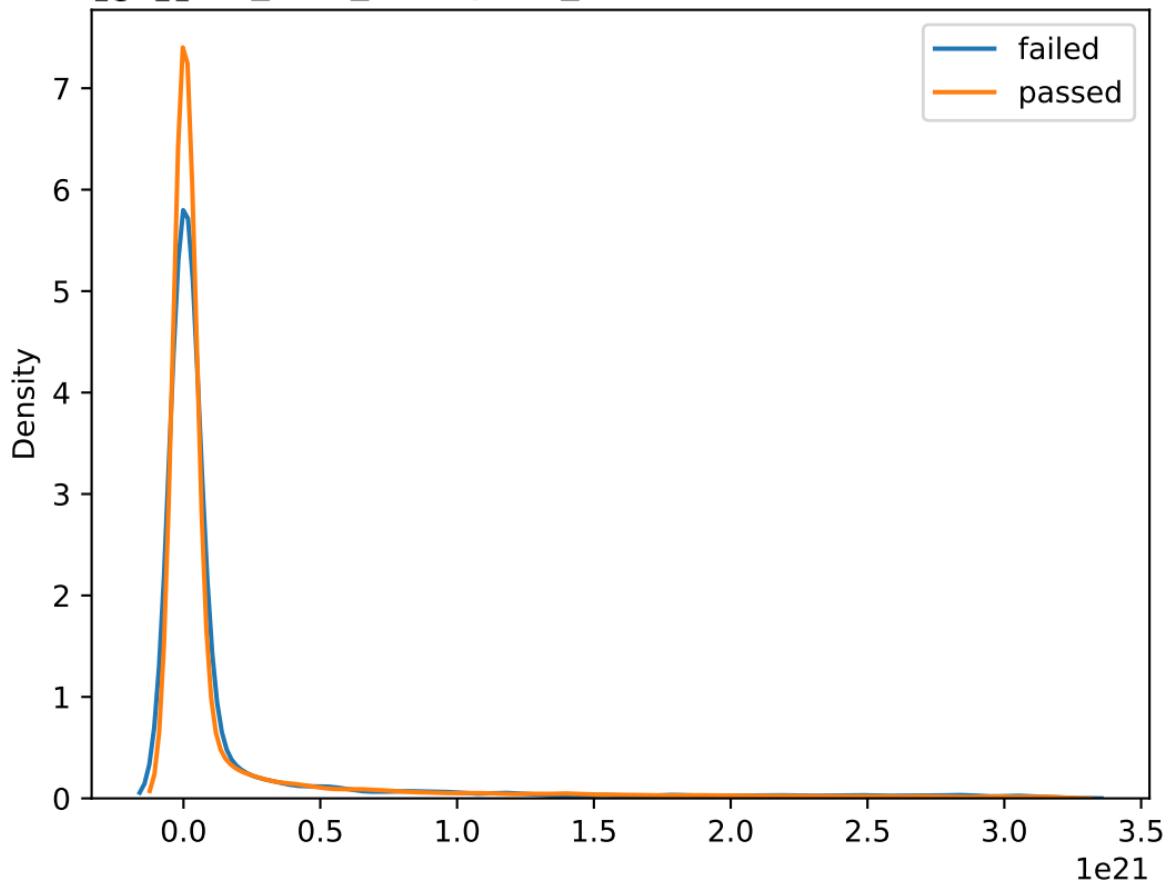
Surface_DoubleBond_to_Bidentate/Combined;VacantSite/E0



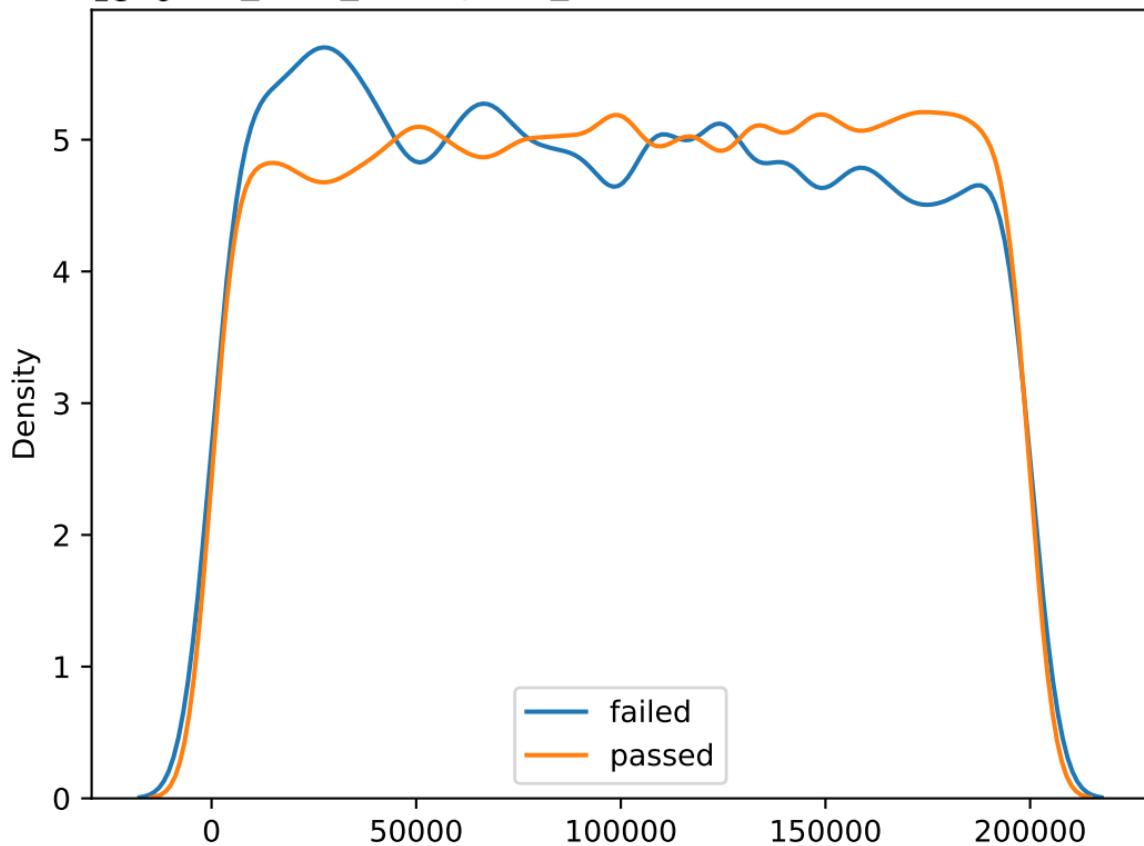
Surface_Dual_Adsorption_vdW/Adsorbate1;Adsorbate2/alpha



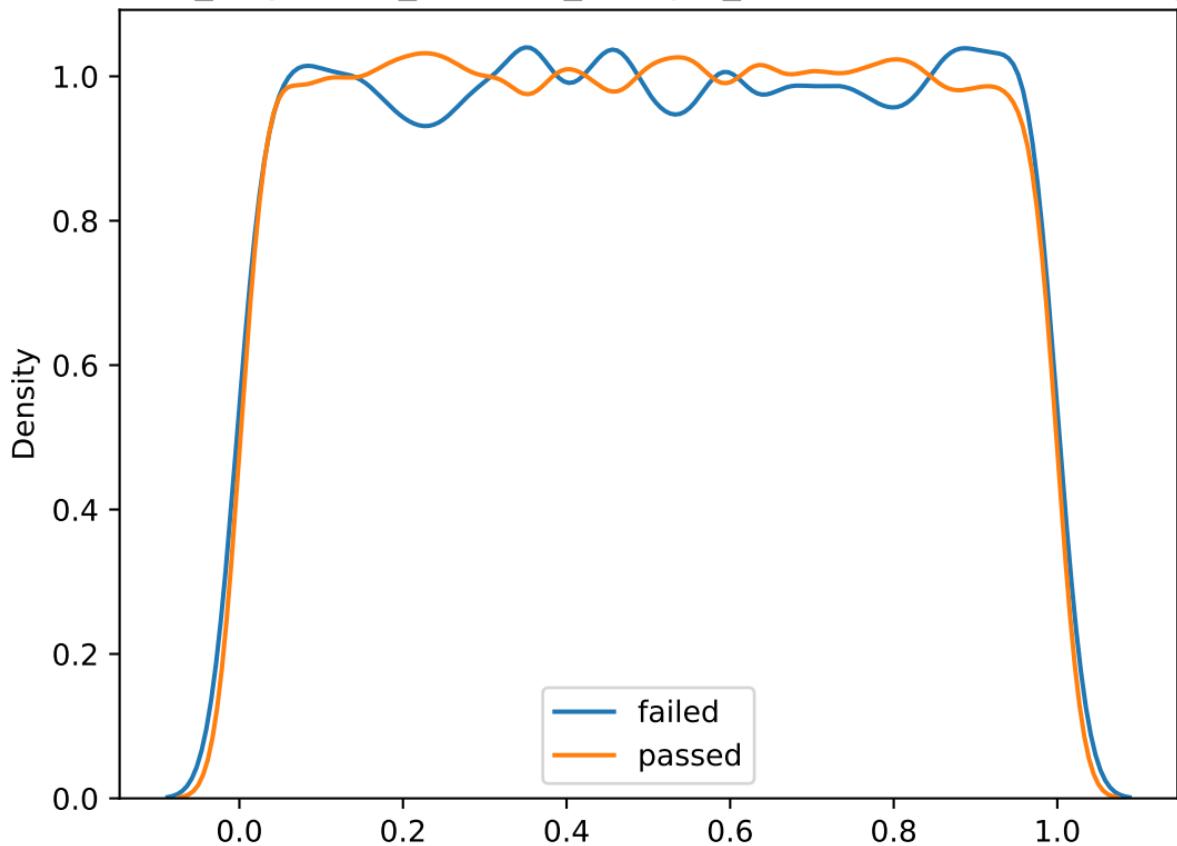
Surface_Dual_Adsorption_vdW/Adsorbate1;Adsorbate2/A



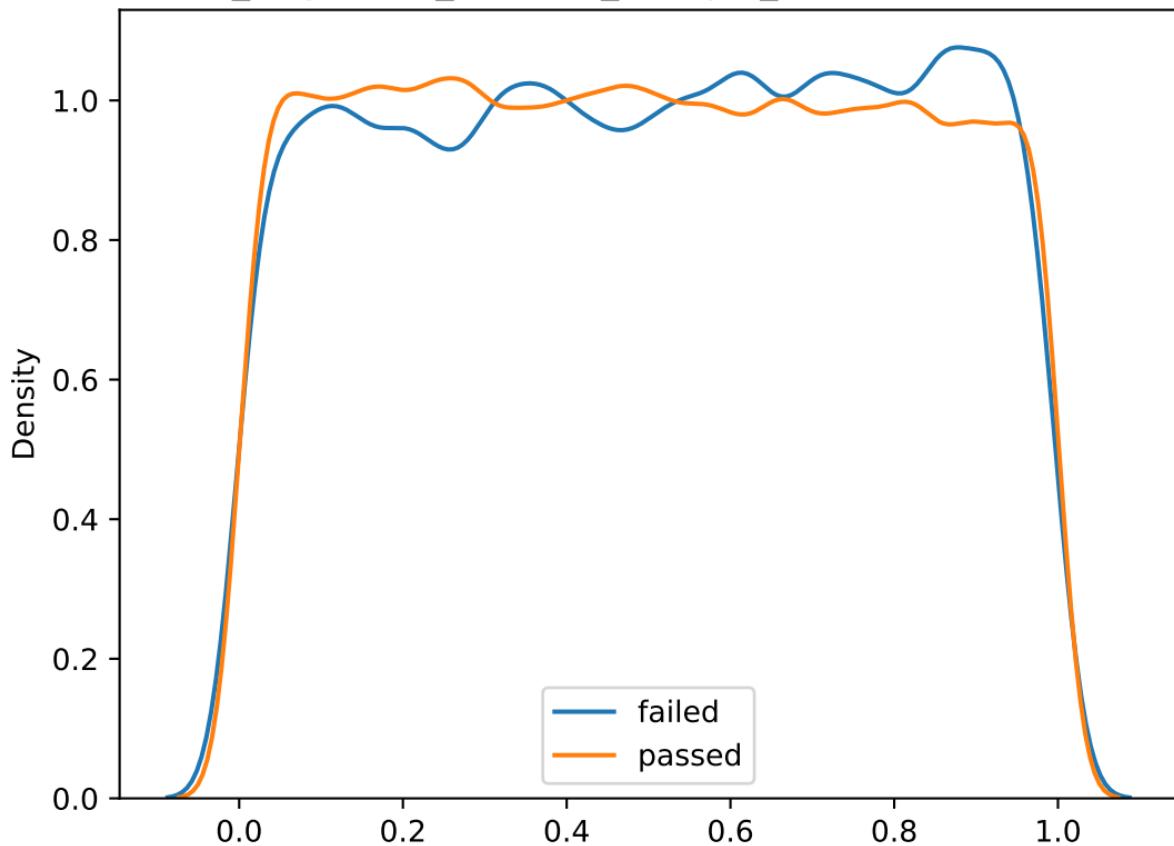
Surface_Dual_Adsorption_vdW/Adsorbate1;Adsorbate2/E0



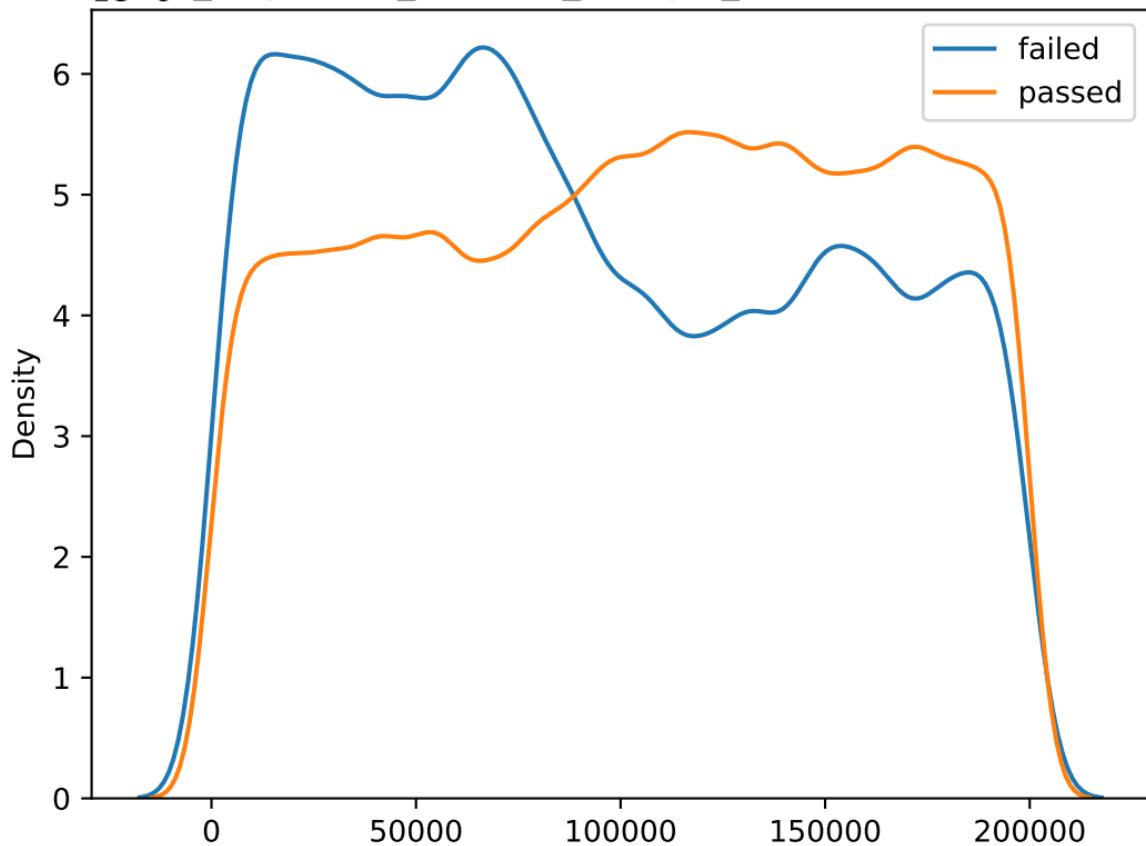
Surface_EleyRideal_Addition_Multiple_Bond/Adsorbate1;Gas/alpha



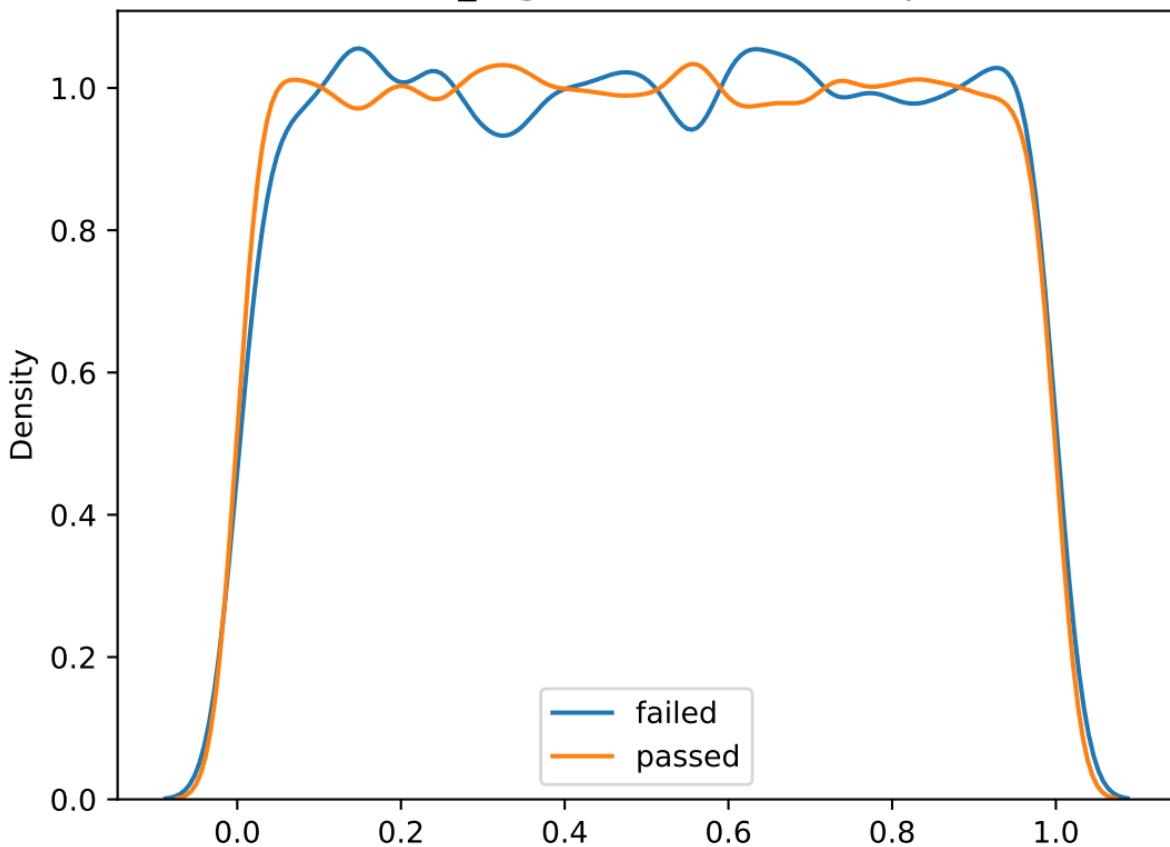
Surface_EleyRideal_Addition_Multiple_Bond/Adsorbate1;Gas/A

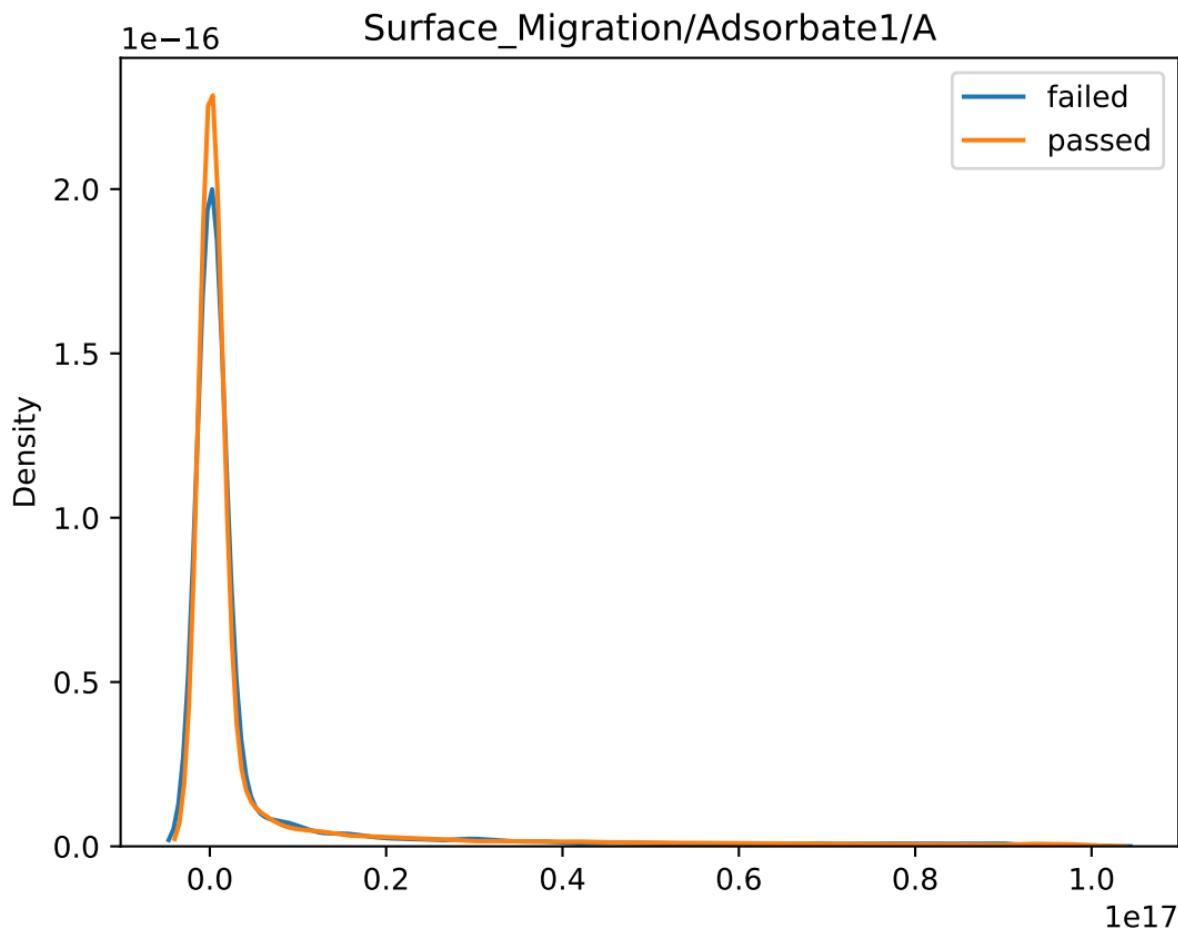


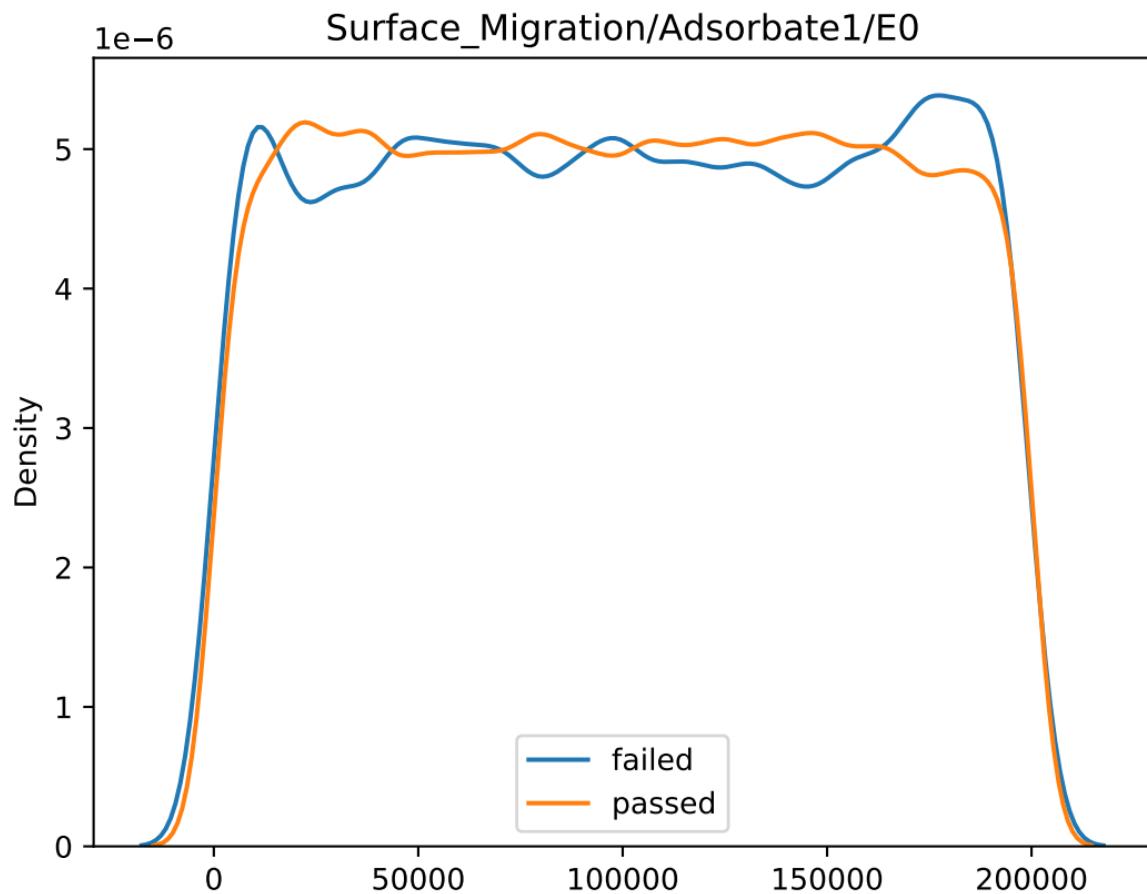
Surface_EleyRideal_Addition_Multiple_Bond/Adsorbate1;Gas/E0



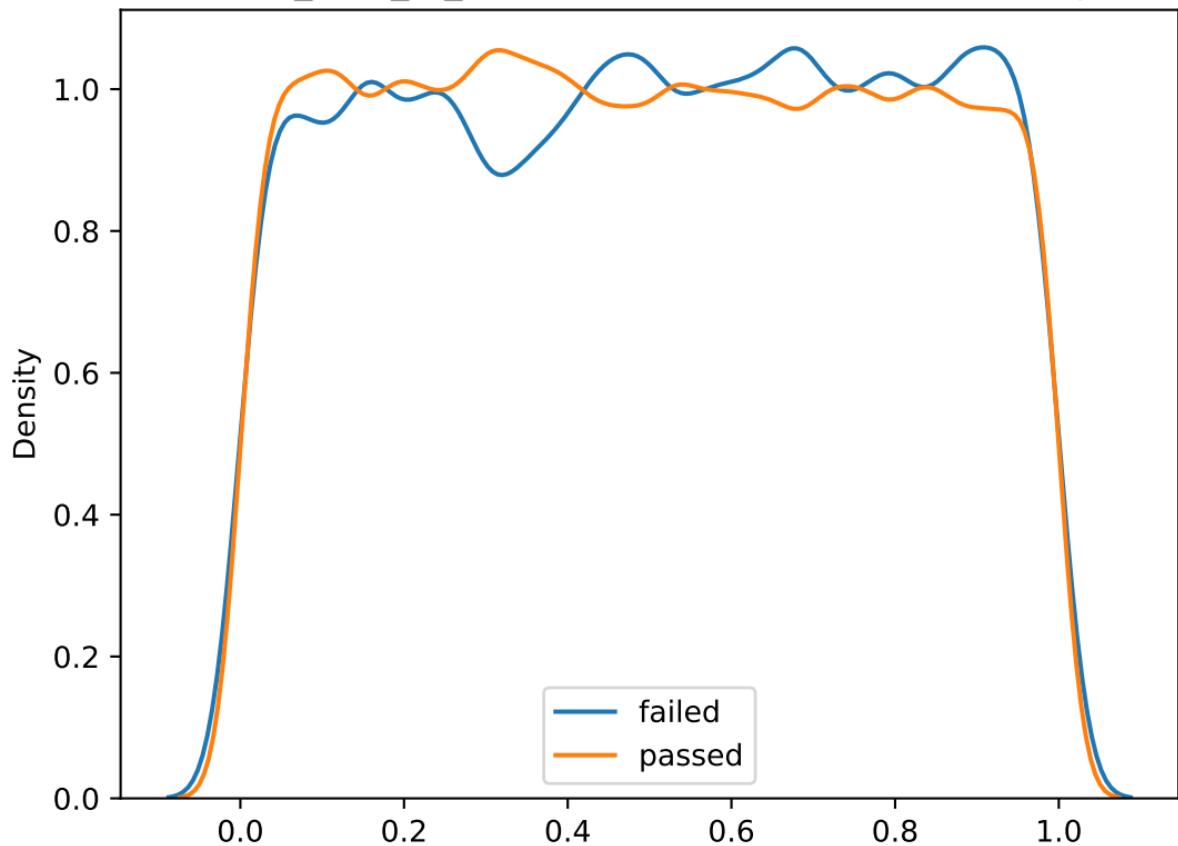
Surface_Migration/Adsorbate1/alpha



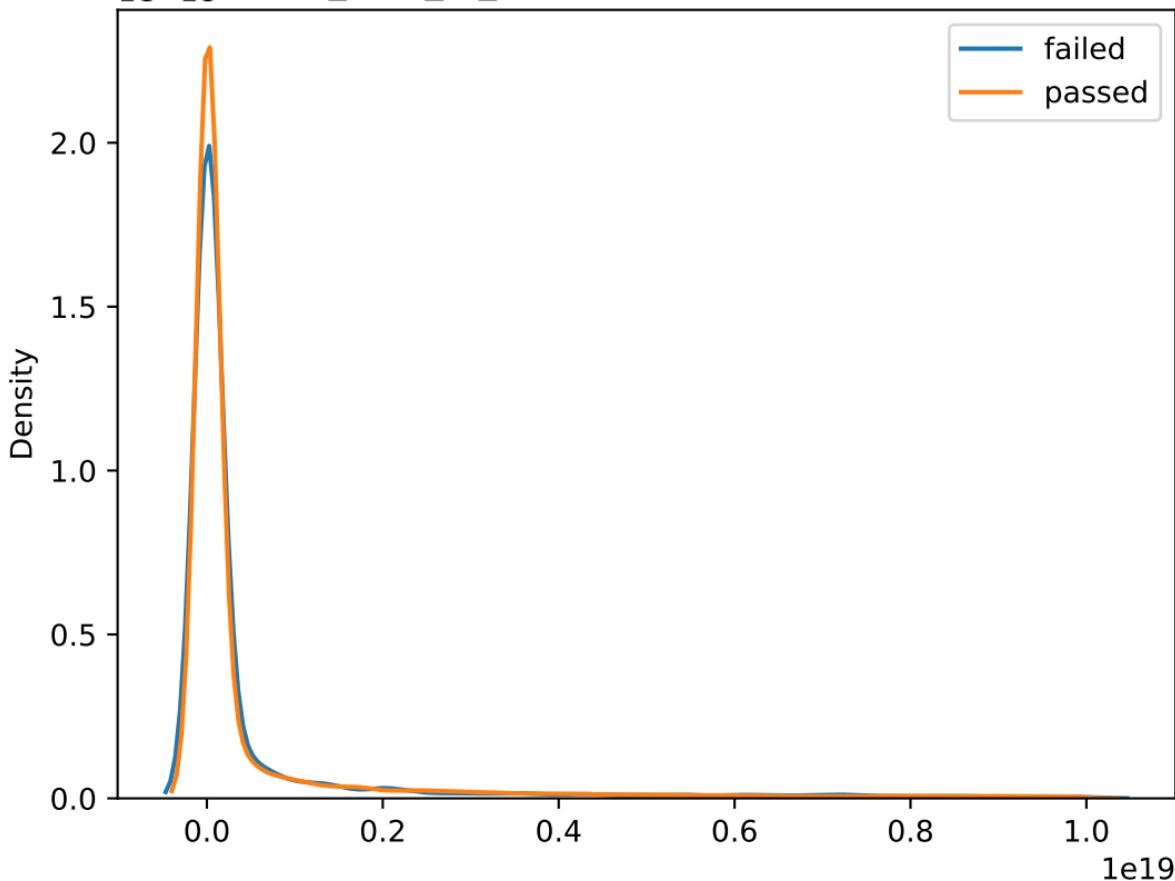




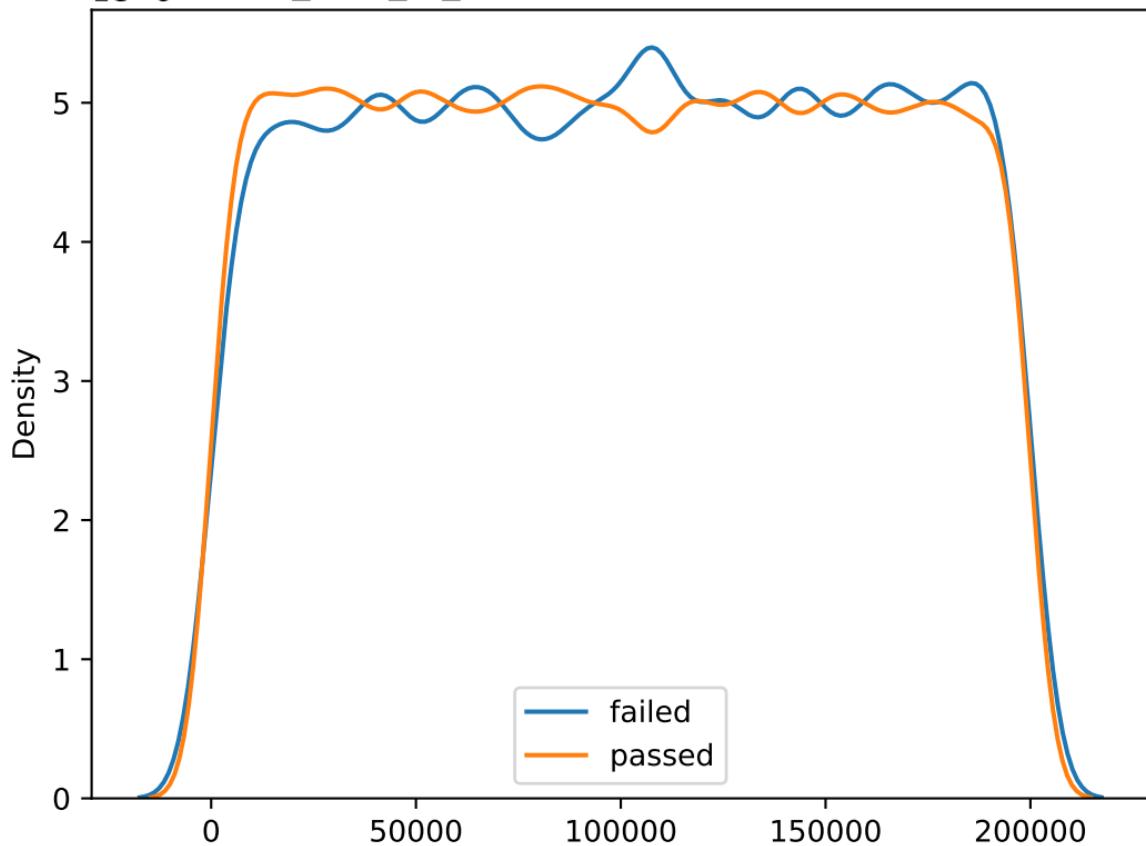
Surface_vdW_to_Bidentate/Combined;VacantSite/alpha



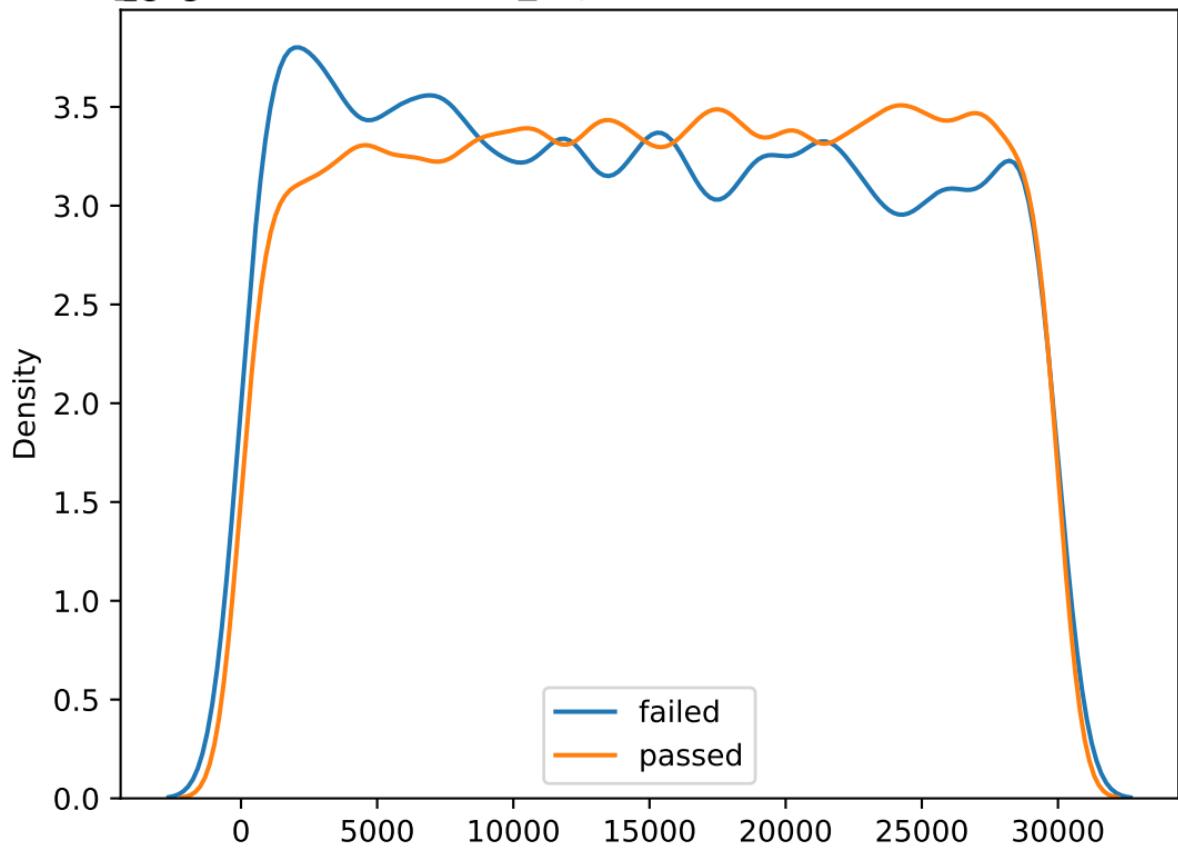
$1e-18$ Surface_vdW_to_Bidentate/Combined;VacantSite/A



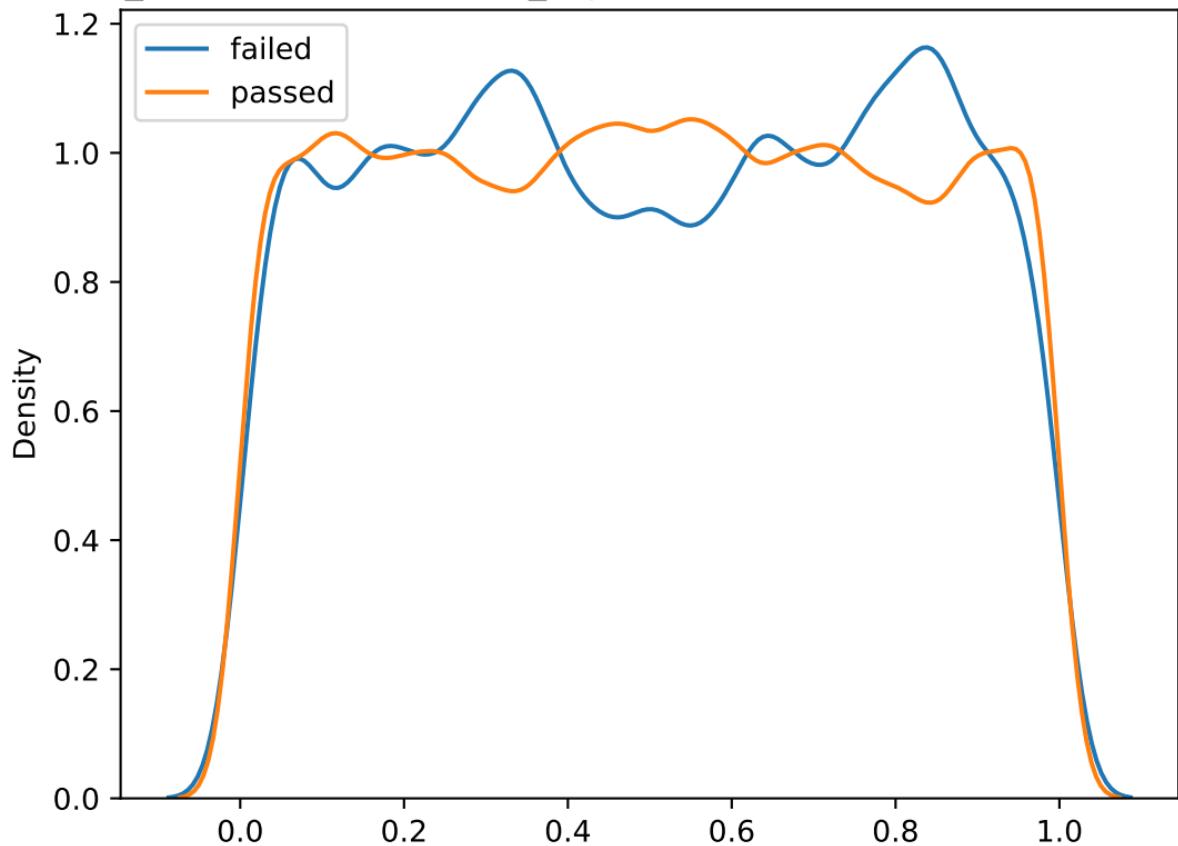
1e-6Surface_vdW_to_Bidentate/Combined;VacantSite/E0



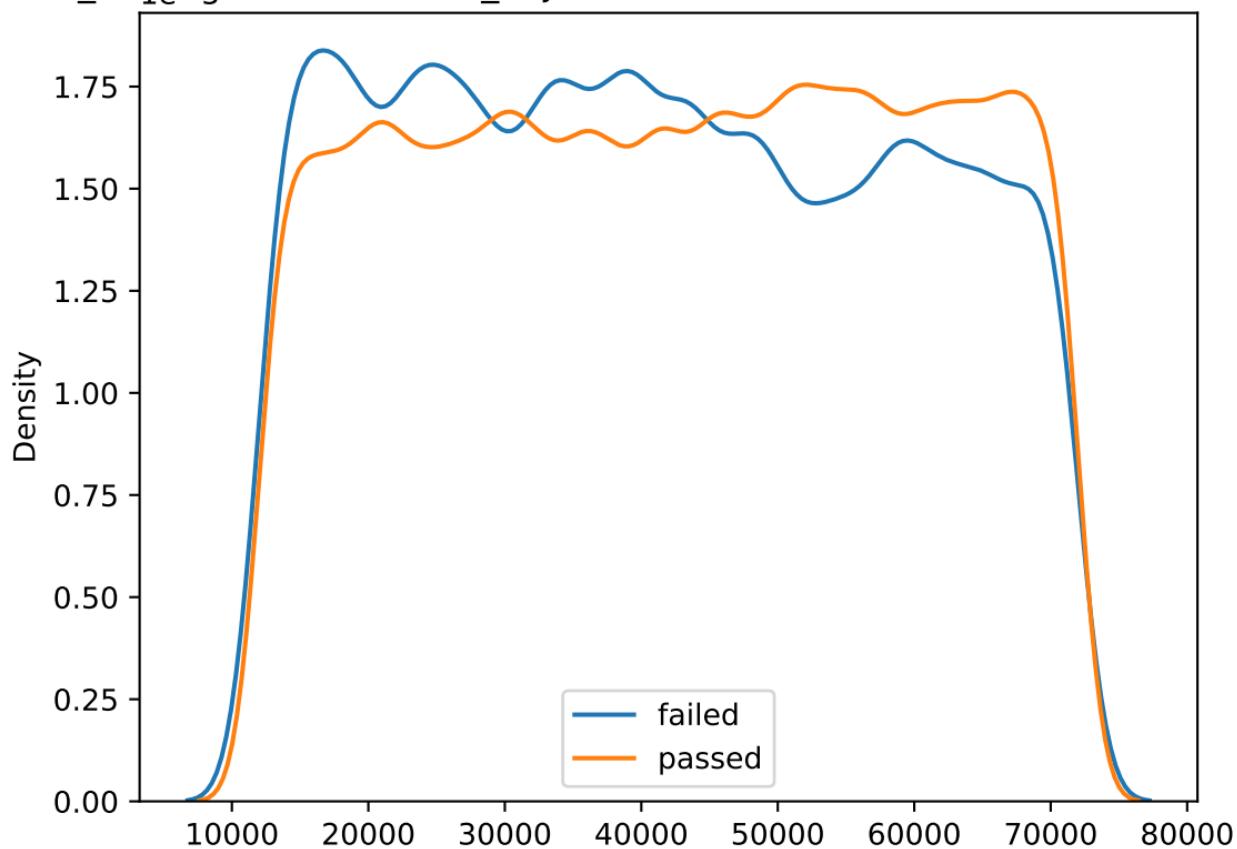
CPOX $_{1e15}$ Pt/Deutschmann2006_adjusted/1/H₂ + Pt + Pt <=> HX + HX/Ea



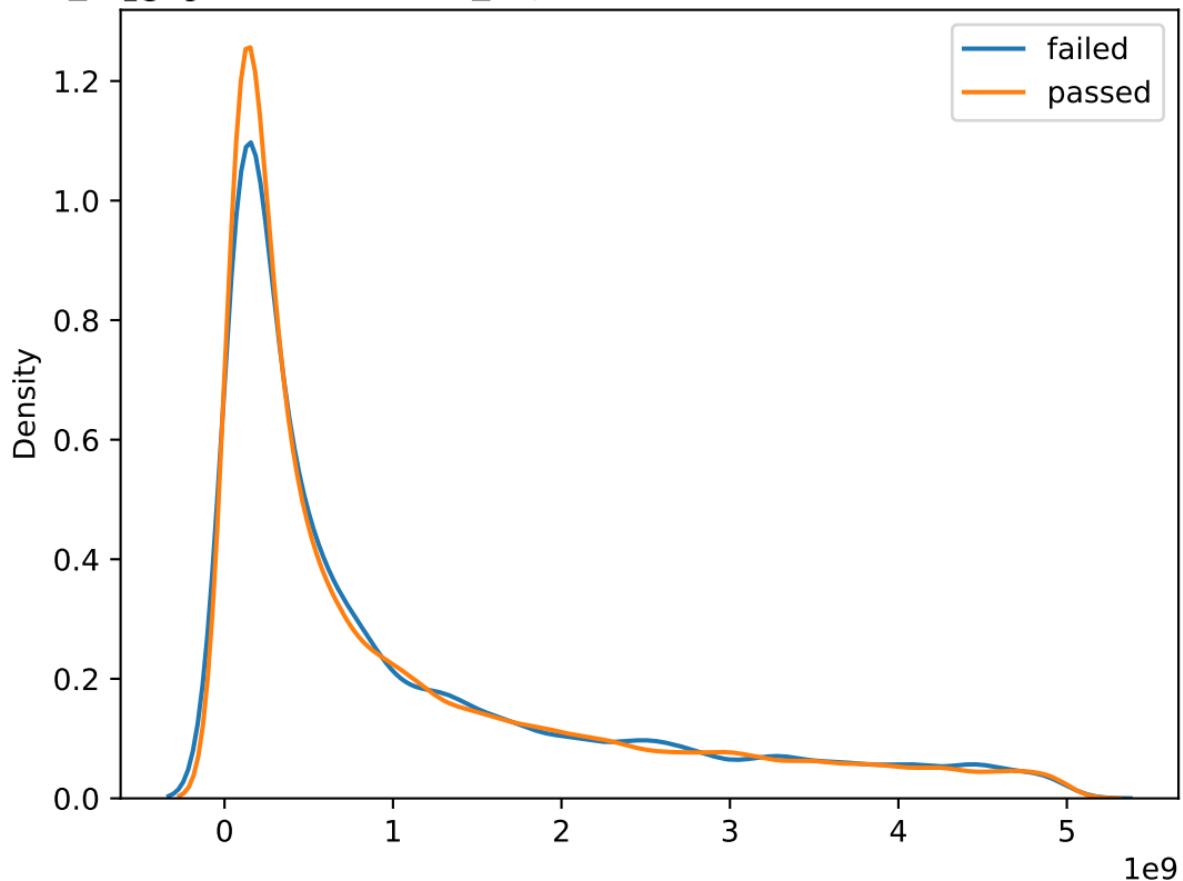
CPOX_Pt/Deutschmann2006_adjusted/1/H₂ + Pt + Pt <=> HX + HX/A



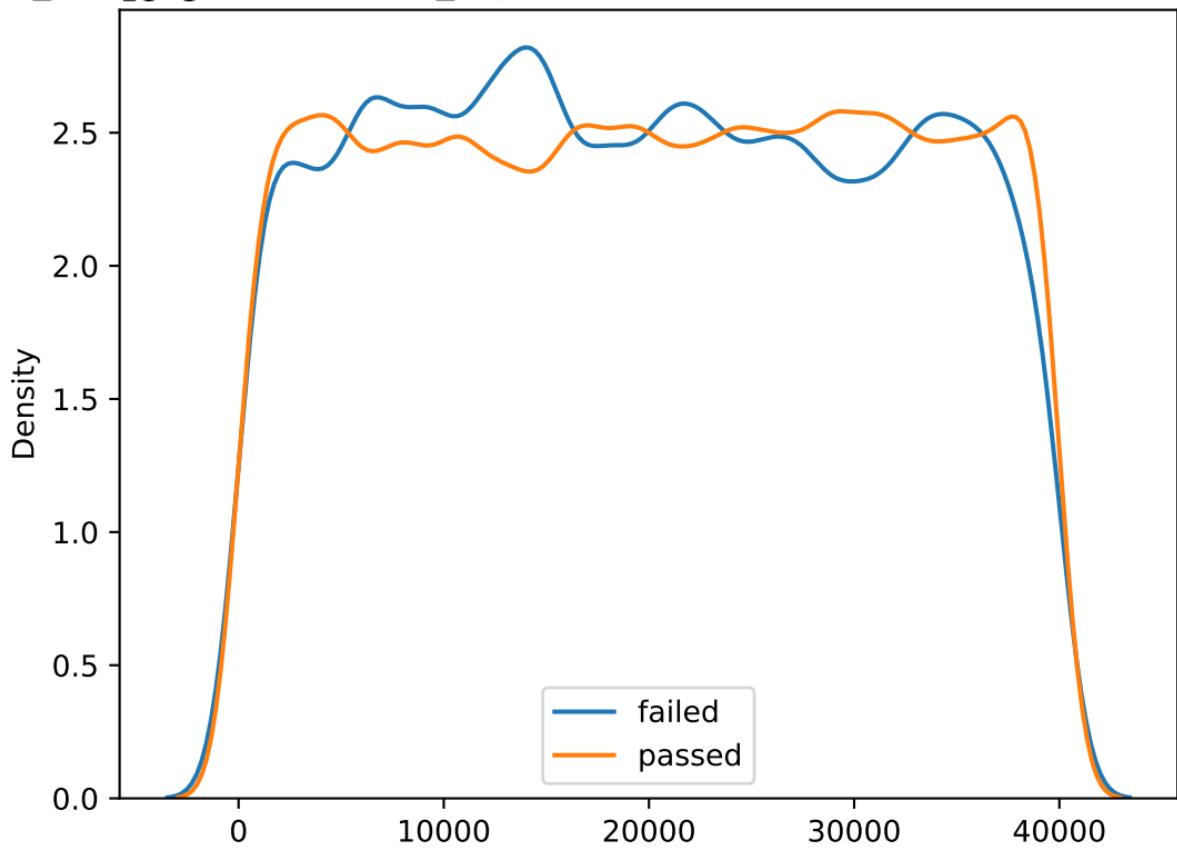
CPOX_Pt/Deutschmann2006_adjusted/4/CH4 + OX + Pt <=> CH3X + HOX/E



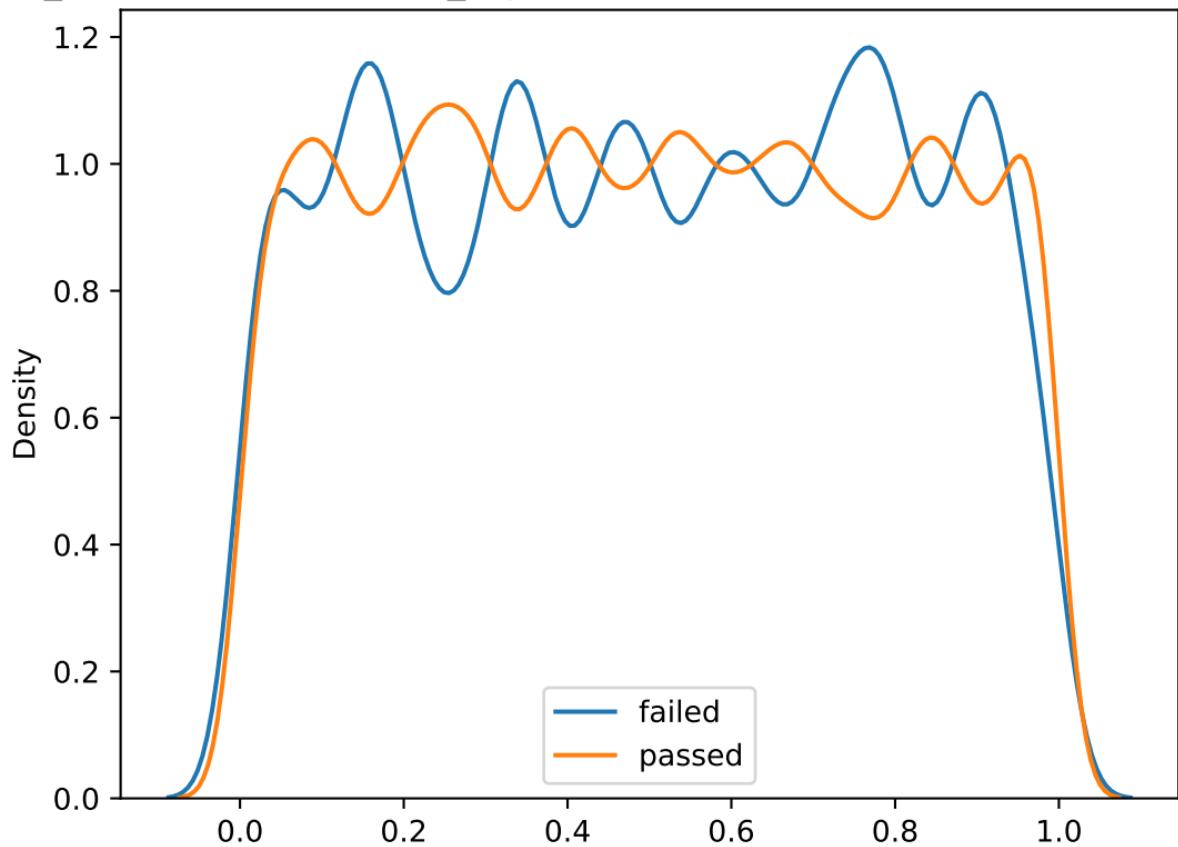
CPOX_Pt/Deutschmann2006_adjusted/4/CH4 + OX + Pt <=> CH3X + HOX/ Δ



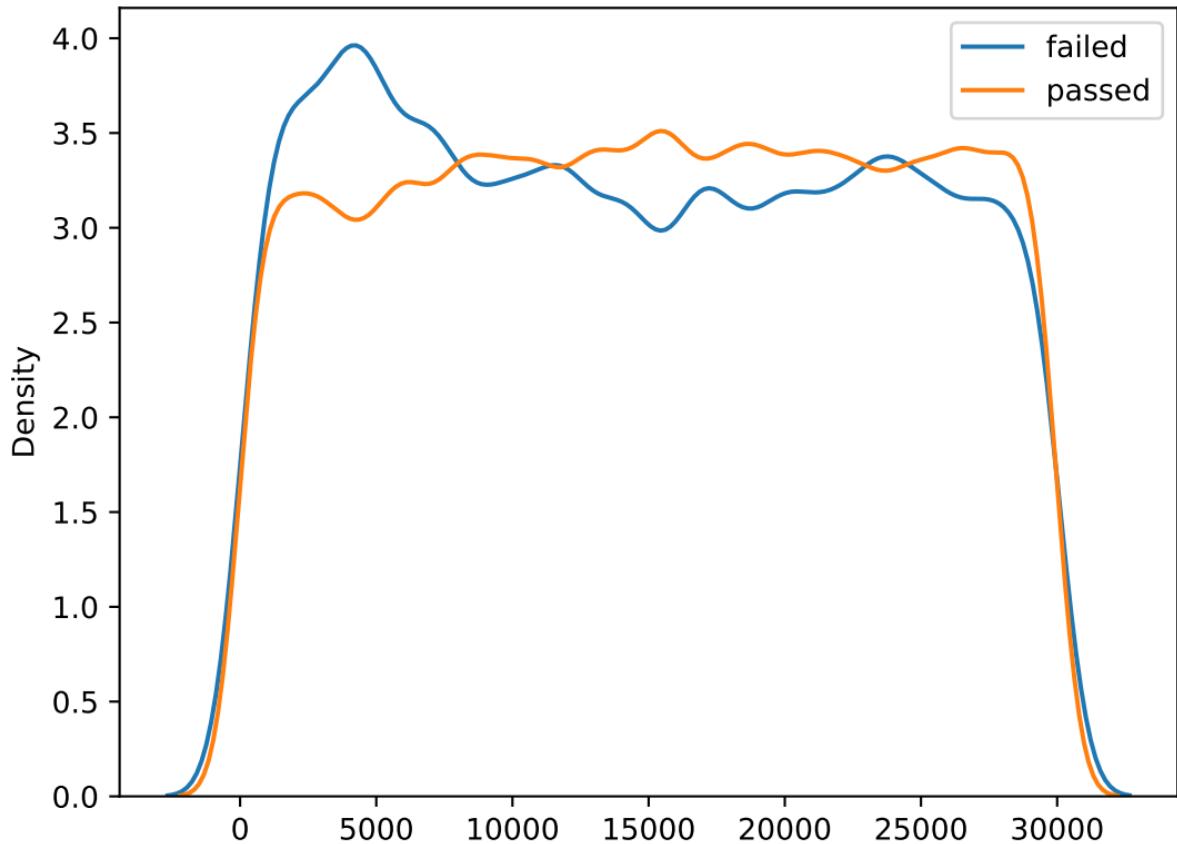
CPOX_Pt/Deutschmann2006_adjusted/5/CH4 + HOX + Pt <=> CH3X + H2OX



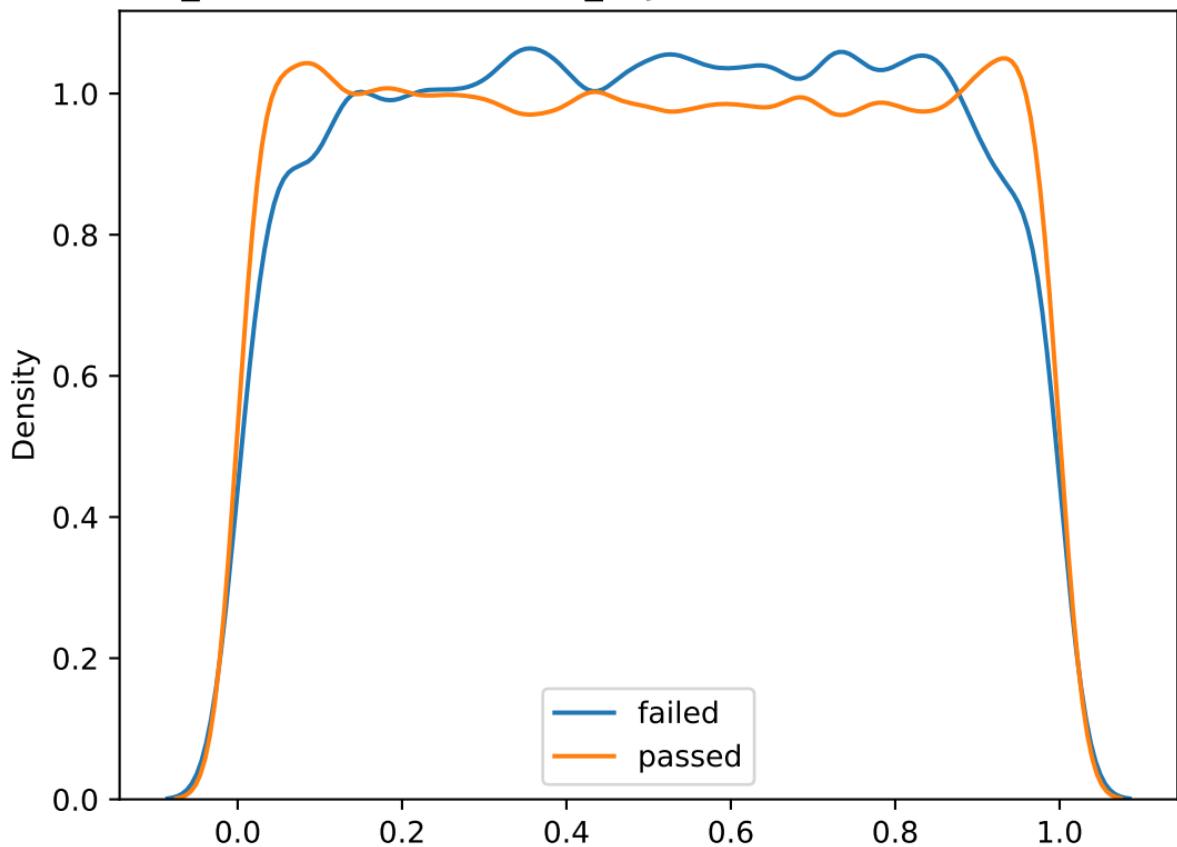
CPOX_Pt/Deutschmann2006_adjusted/5/CH4 + HOX + Pt <=> CH3X + H2OX



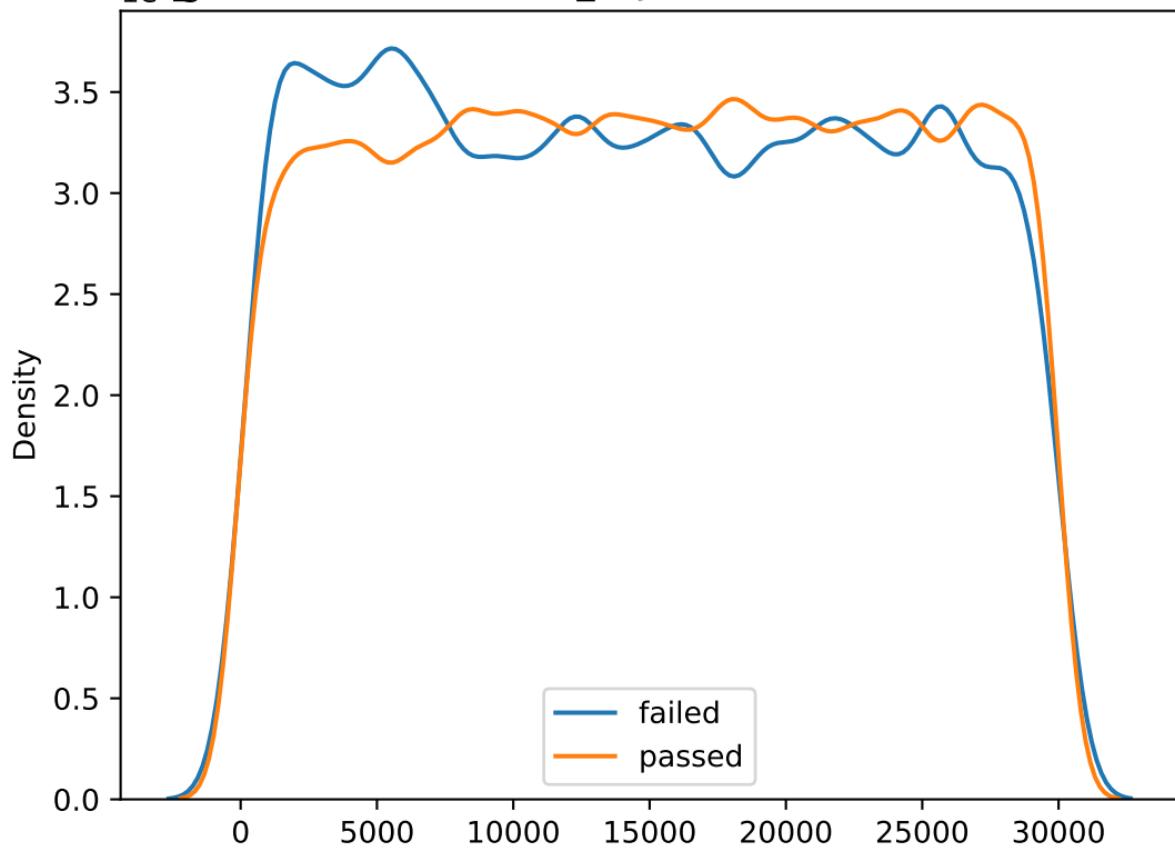
CPOX_Pt/Deutschmann2006_adjusted/6/H₂O + Pt <=> H₂OX/Ea
 $\times 10^{-5}$



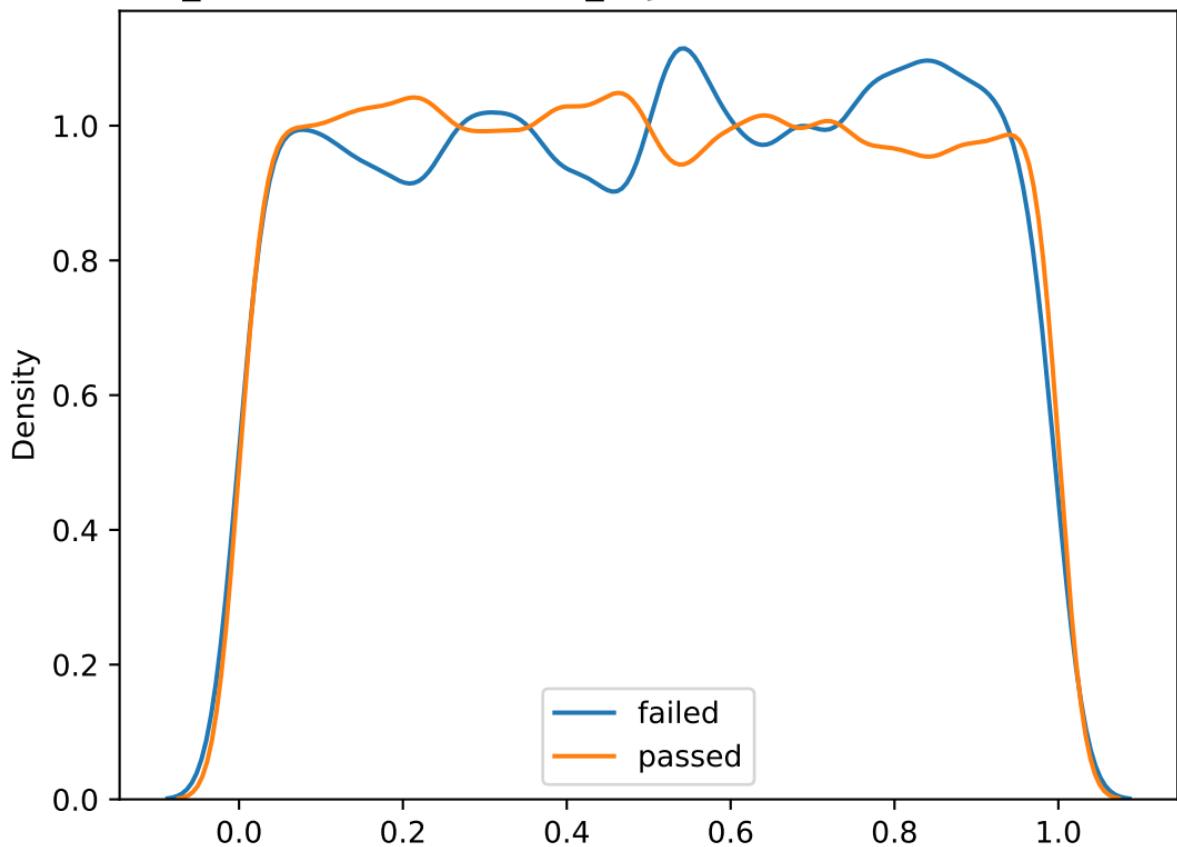
CPOX_Pt/Deutschmann2006_adjusted/6/H₂O + Pt <=> H₂O_X/A



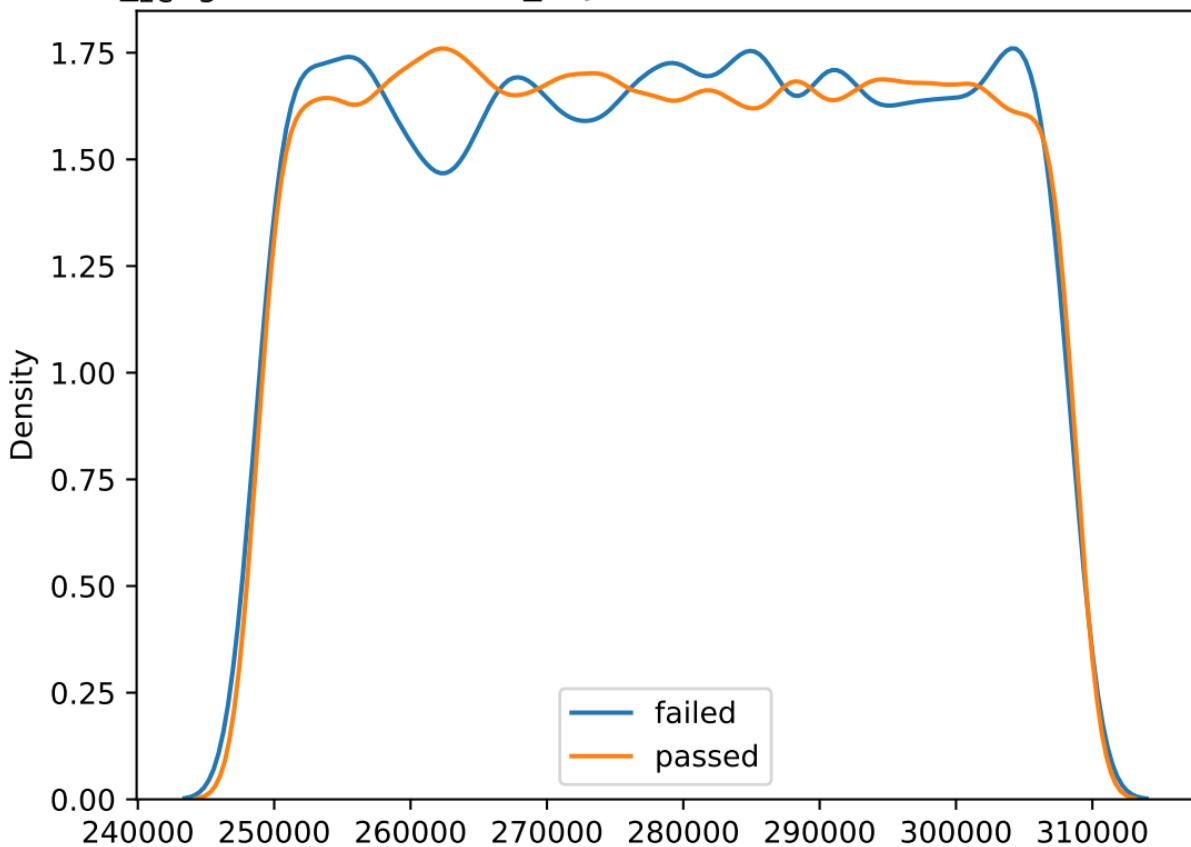
CPOX_Pt/Deutschmann2006_adjusted/7/CO2 + Pt <=> CO2X/Ea



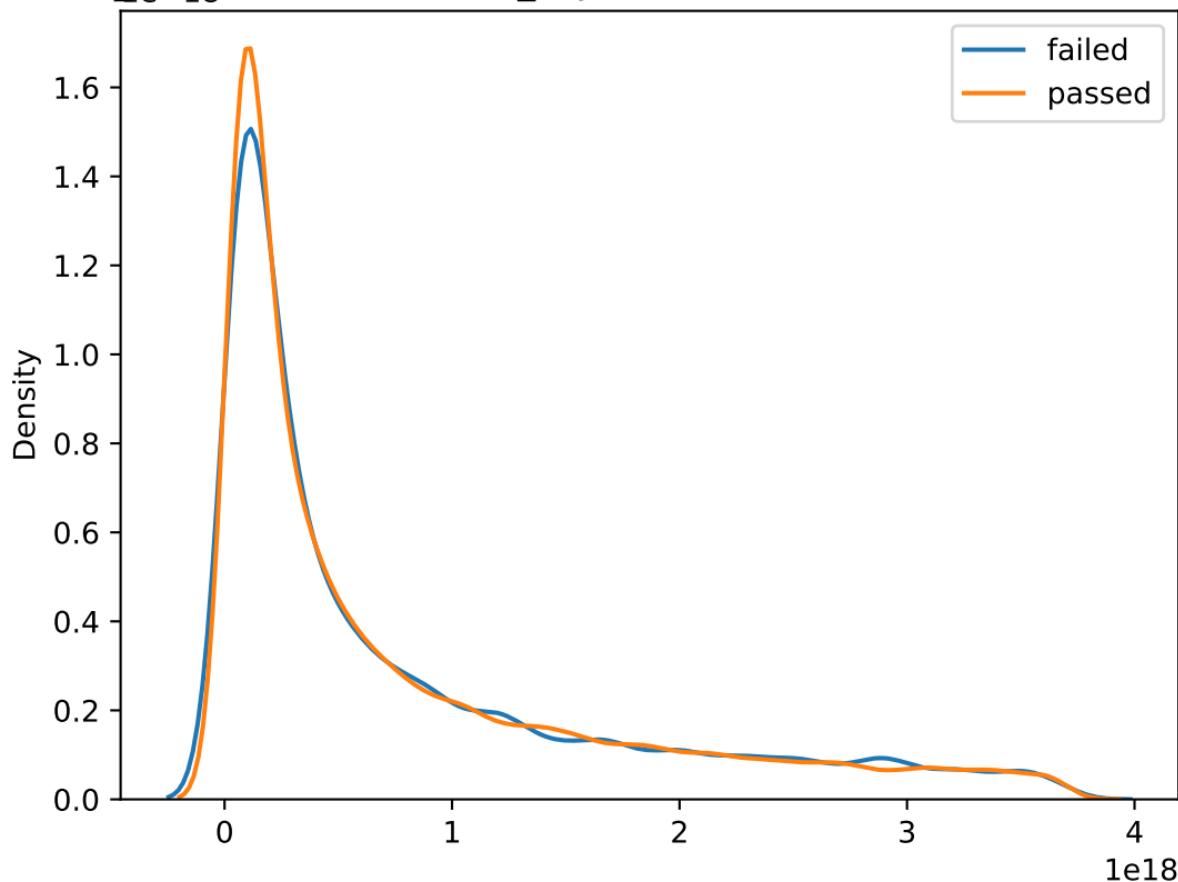
CPOX_Pt/Deutschmann2006_adjusted/7/CO2 + Pt <=> CO2X/A



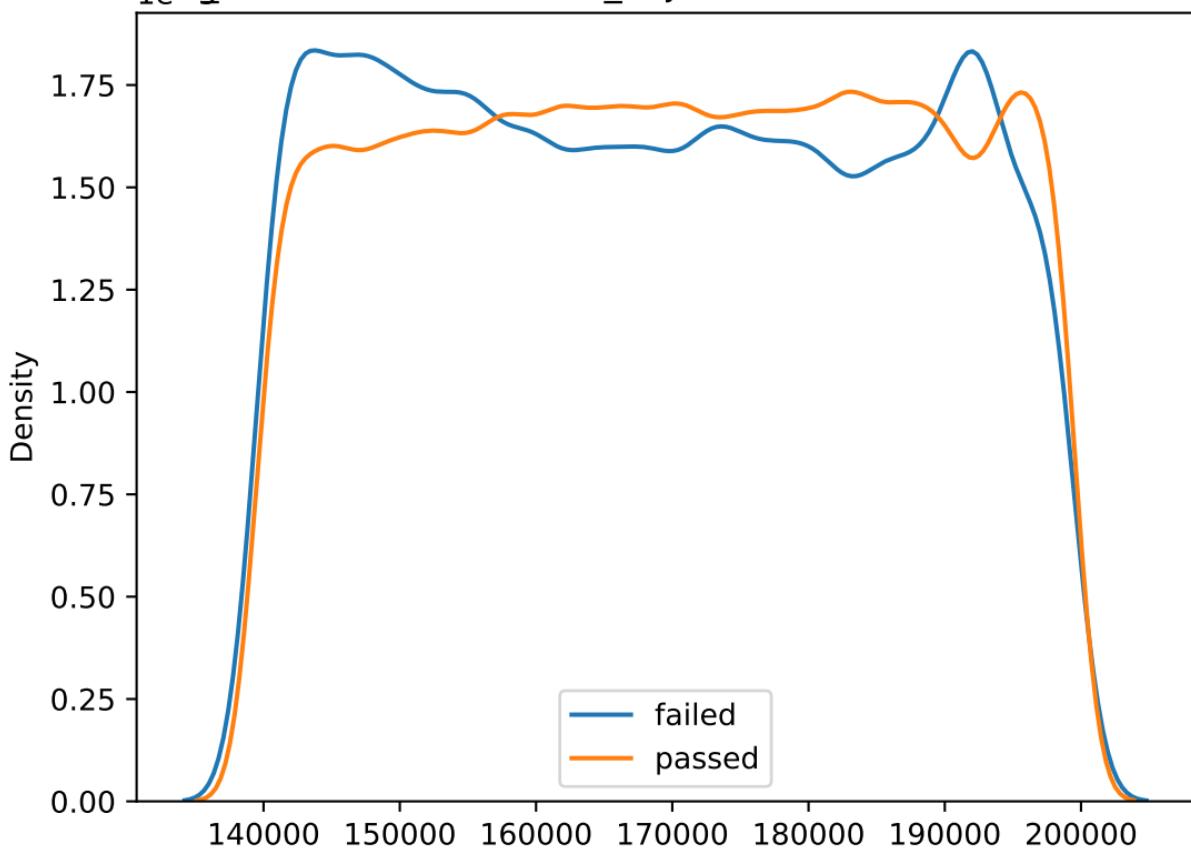
CPOX_Pt/Deutschmann2006_adjusted/10/OX + OX <=> Pt + Pt + O2/Ea



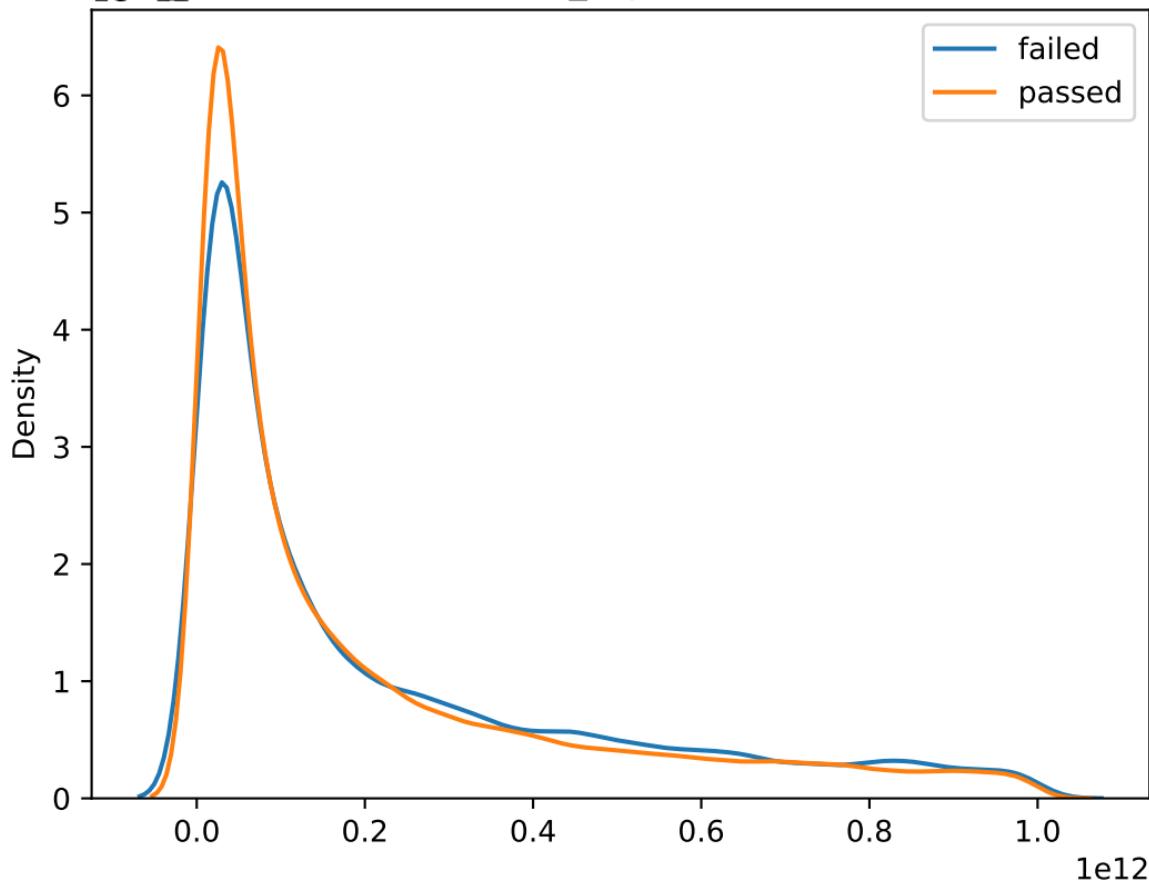
CPOX_Pt/Deutschmann2006_adjusted/10/OX + OX <=> Pt + Pt + O2/A
 $1e^{18}$



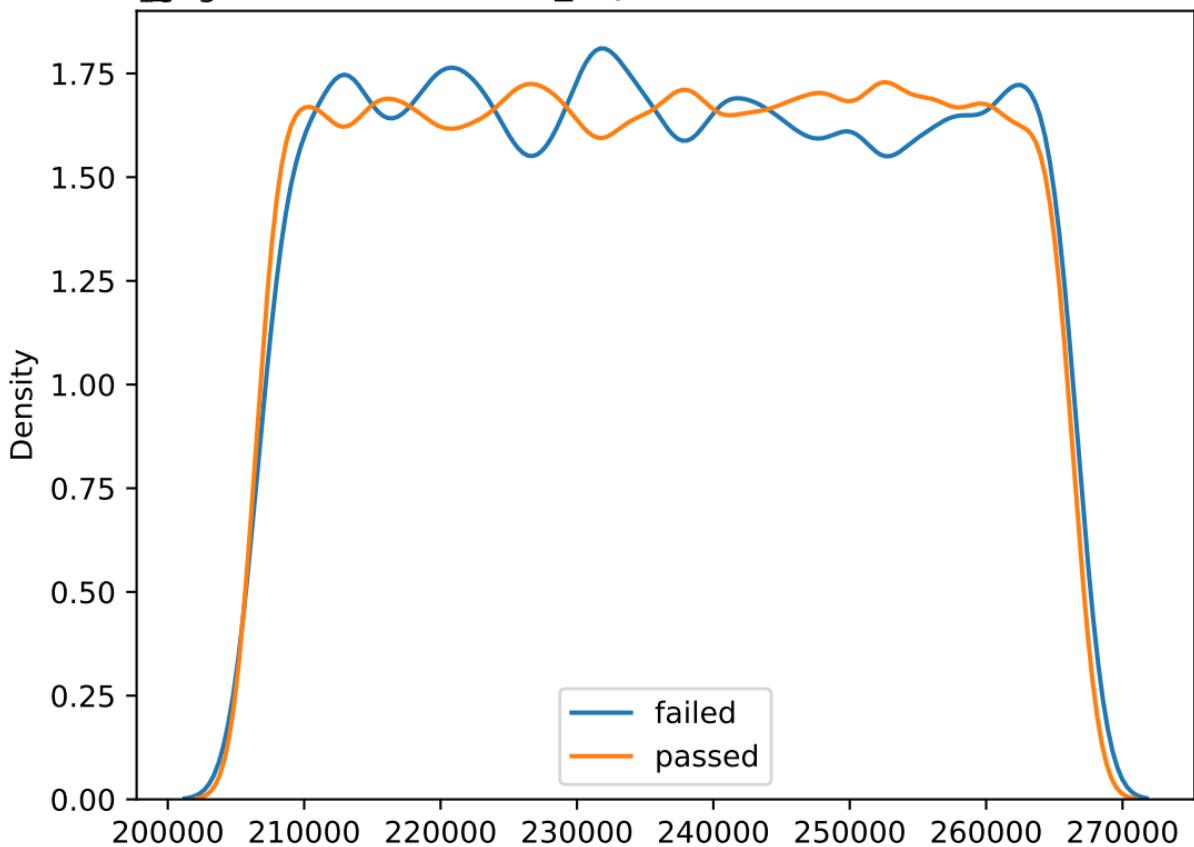
$\text{CPQX}_5\text{Pt}/\text{Deutschmann}2006_\text{adjusted}/12/\text{OCX} <=> \text{CO} + \text{Pt/Ea}$



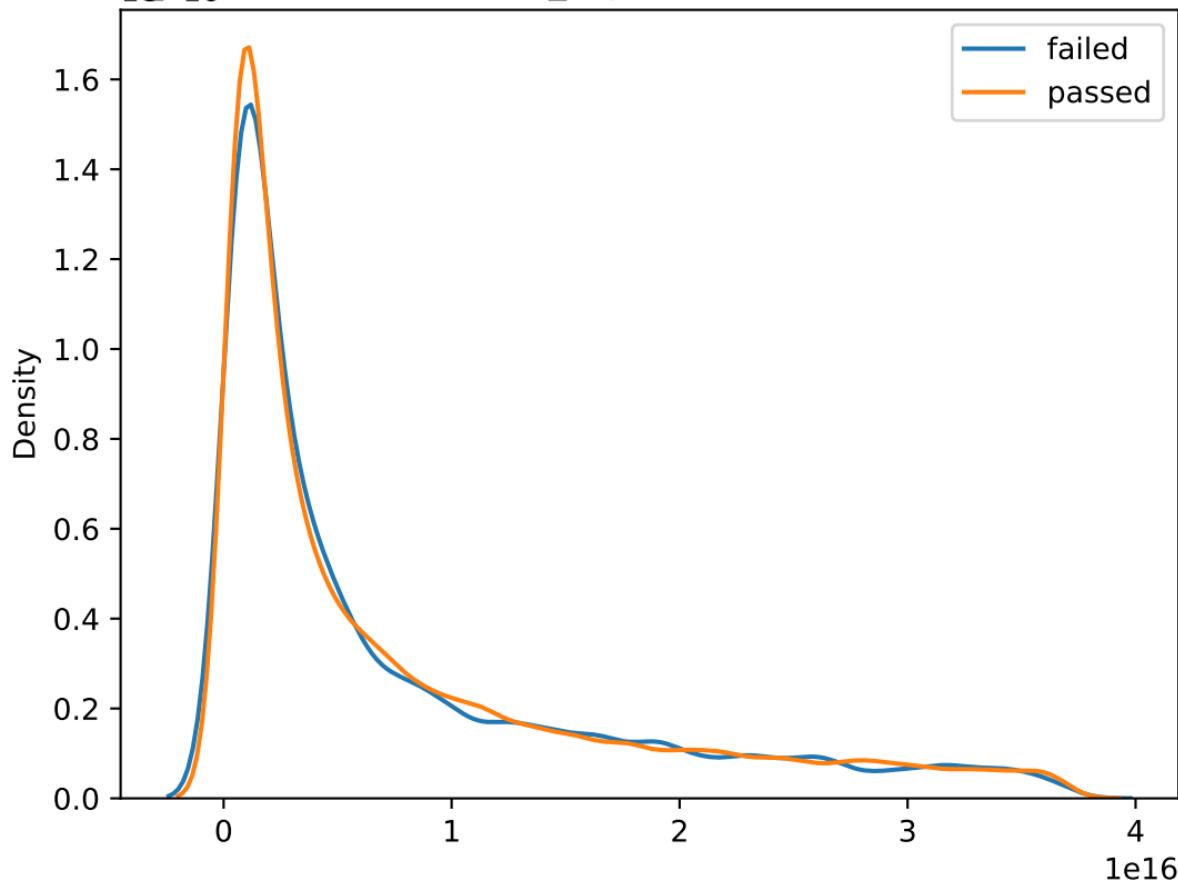
CPQX_Pt/Deutschmann2006_adjusted/12/OCX <=> CO + Pt/A
 $1e^{12}$



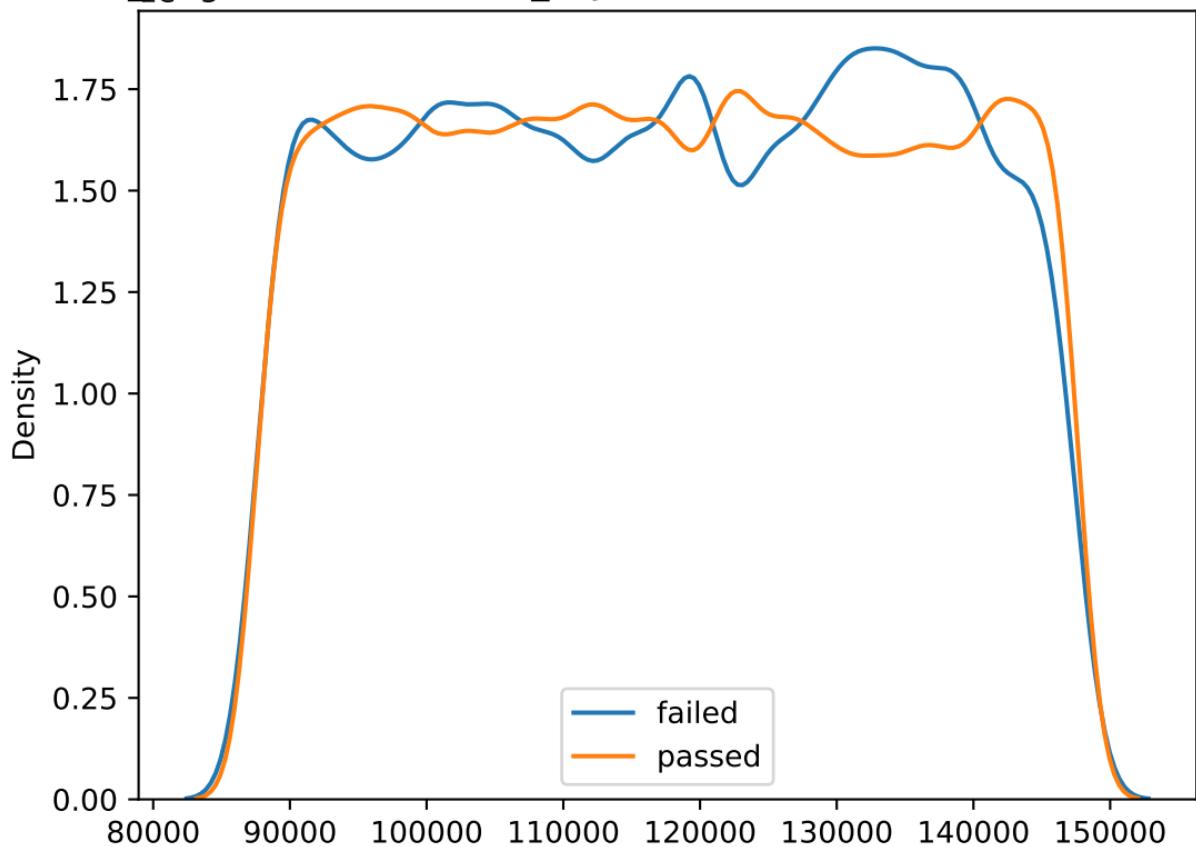
CPOX_{1-e}Pt₅/Deutschmann2006_adjusted/15/OCX + Pt <=> CX + OX/Ea



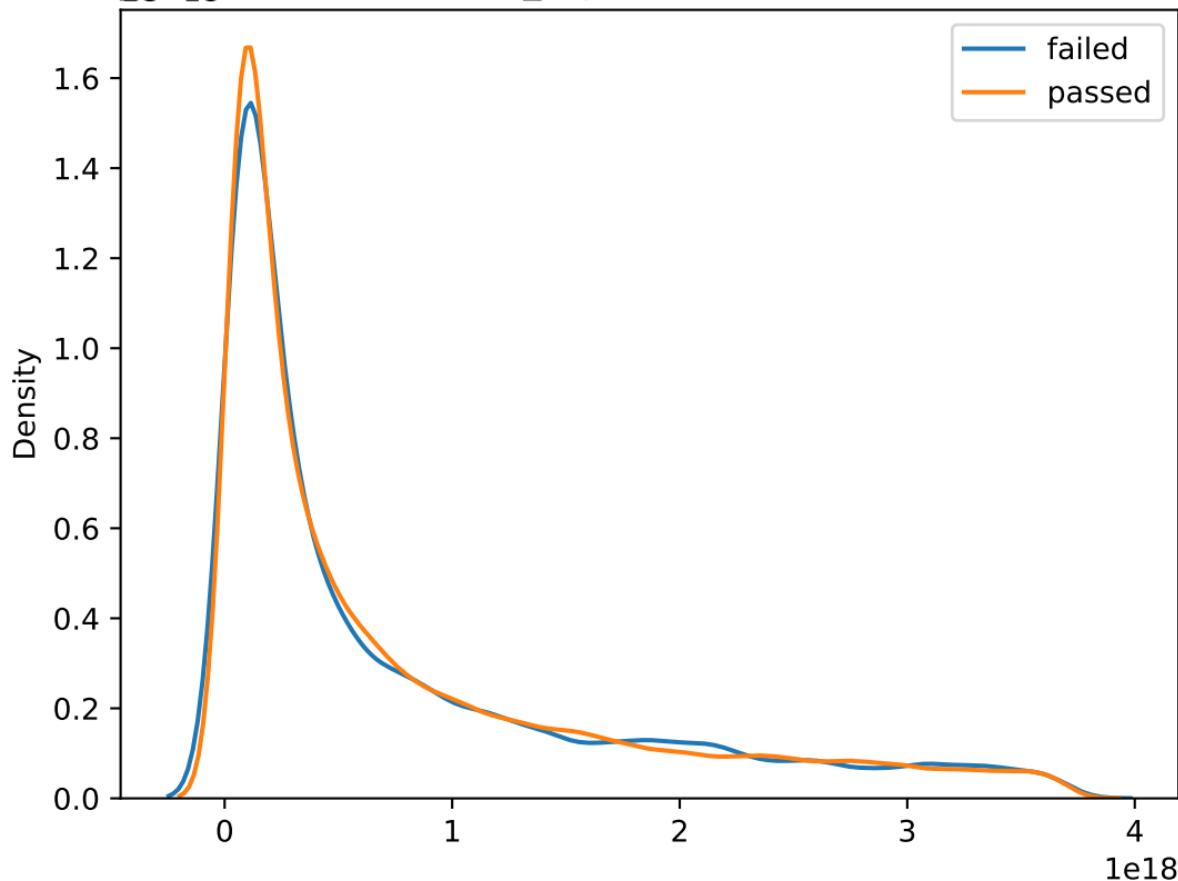
CPOX_Pt/Deutschmann2006_adjusted/15/OCX + Pt <=> CX + OX/A
 $1e^{16}$



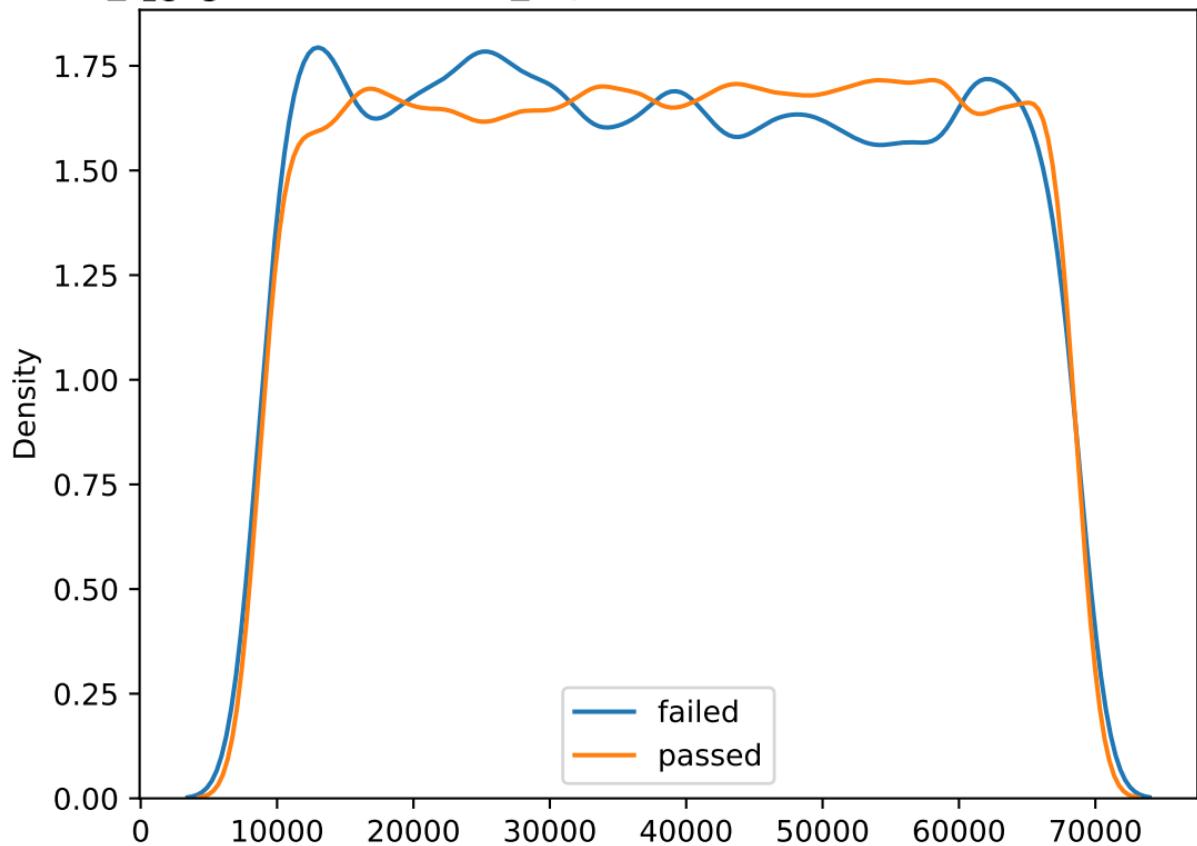
CPOX_Pt/Deutschmann2006_adjusted/16/OCX + OX <=> CO2X + Pt/Ea



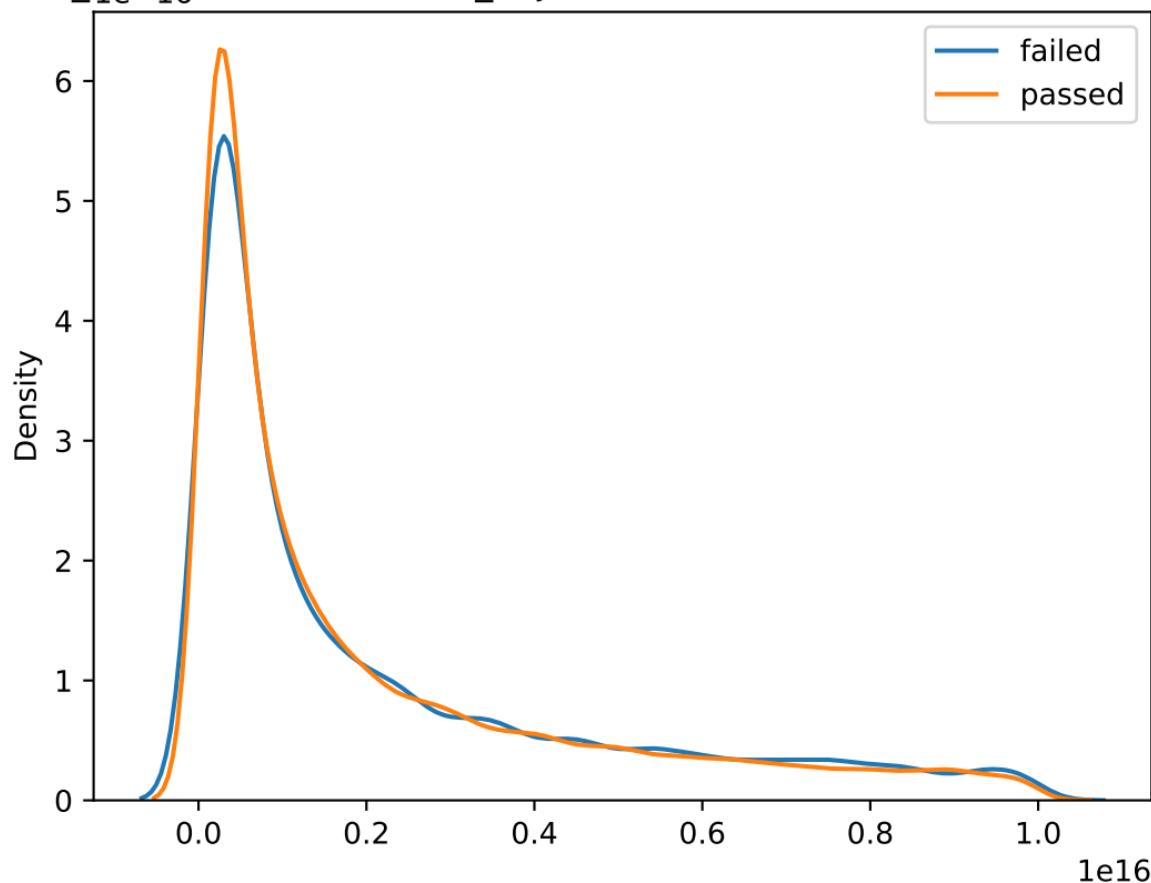
CPOX_{1e18}Pt/Deutschmann2006_adjusted/16/OCX + OX <=> CO2X + Pt/A



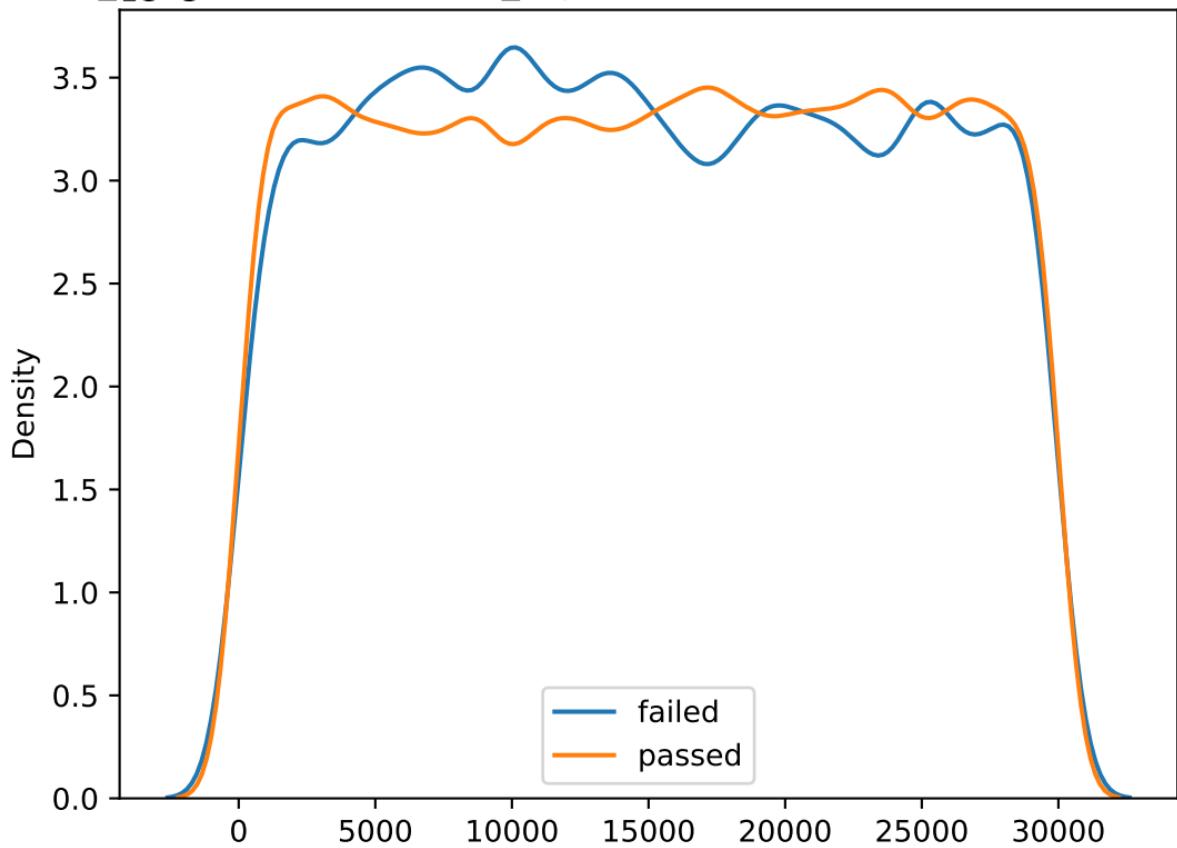
CPOX_Pt/Deutschmann2006_adjusted/18/OCX + HOX <=> CO2X + HX/Ea



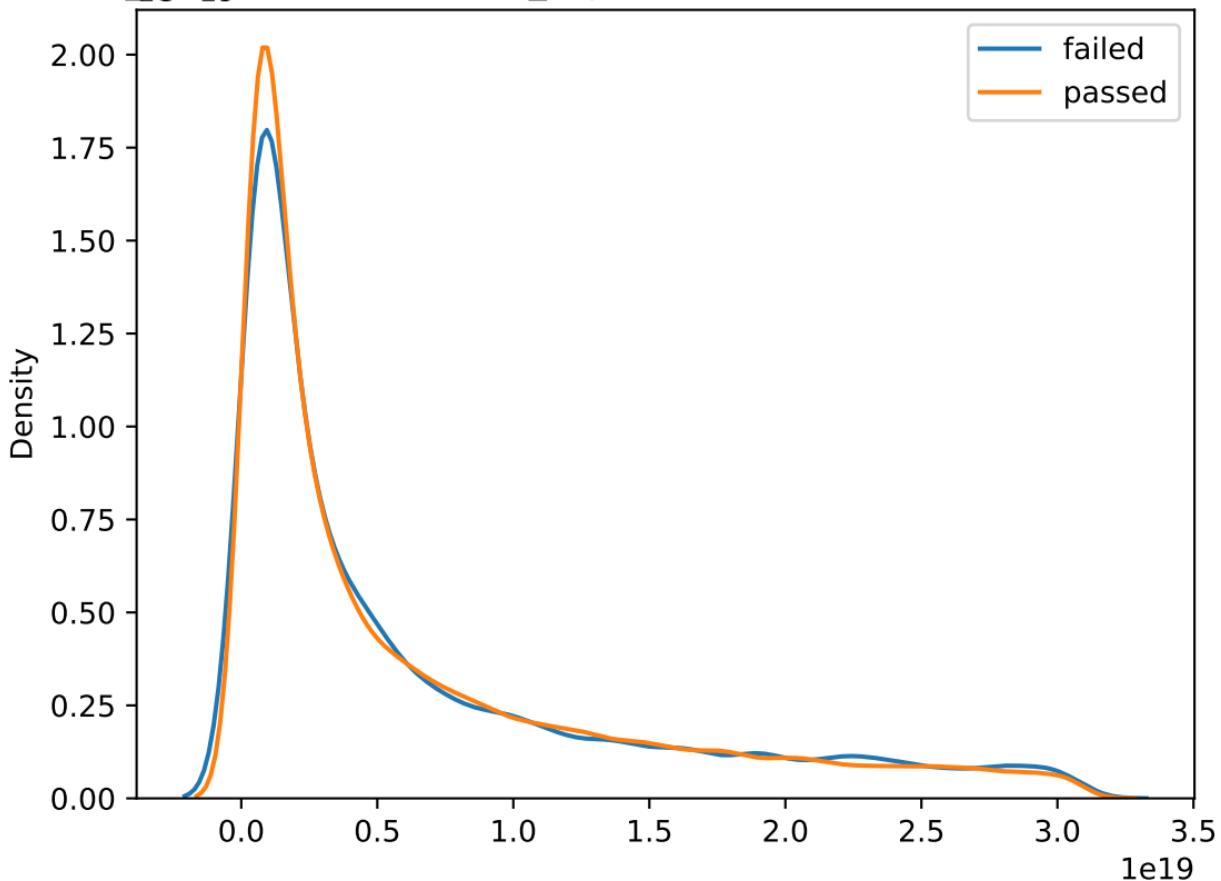
CPOX_Pt/Deutschmann2006_adjusted/18/OCX + HOX <=> CO2X + HX/A



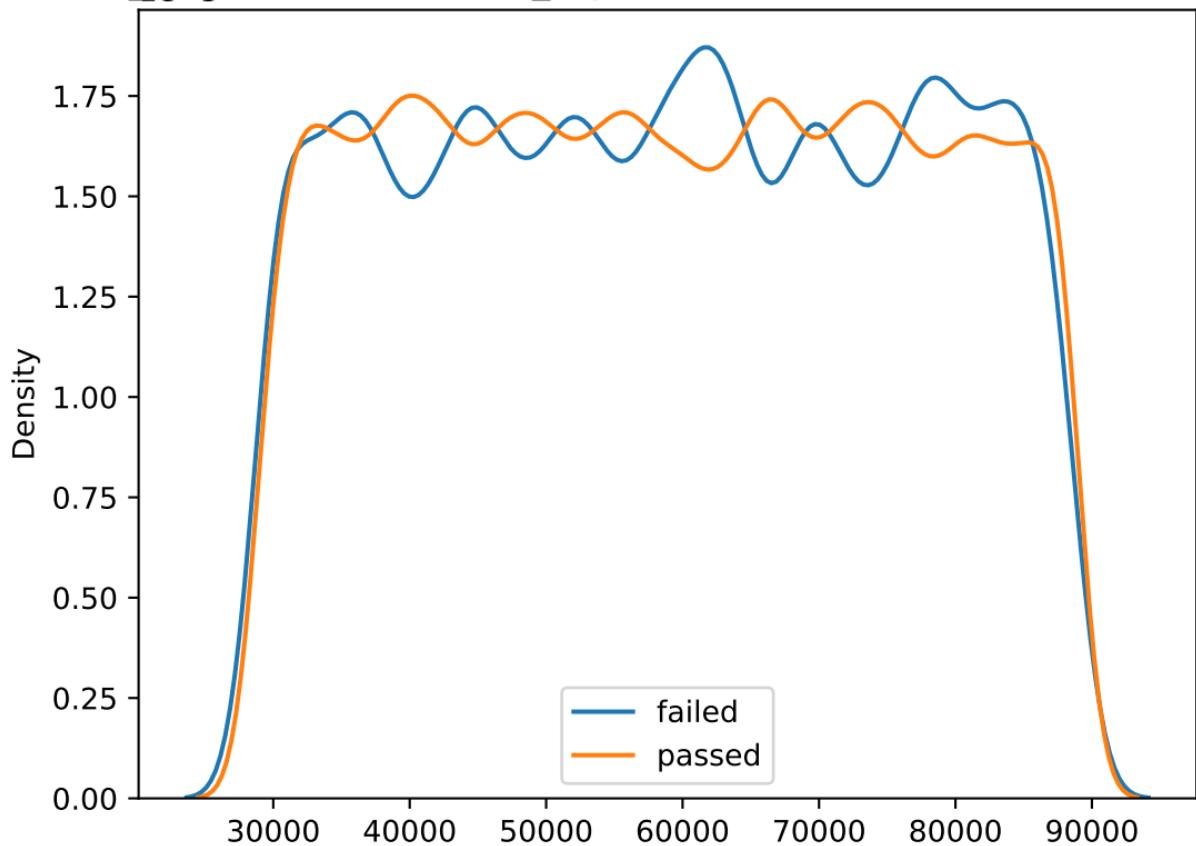
CPOX_Pt/Deutschmann2006_adjusted/21/CH₂X + HX <=> CH₃X + Pt/Ea



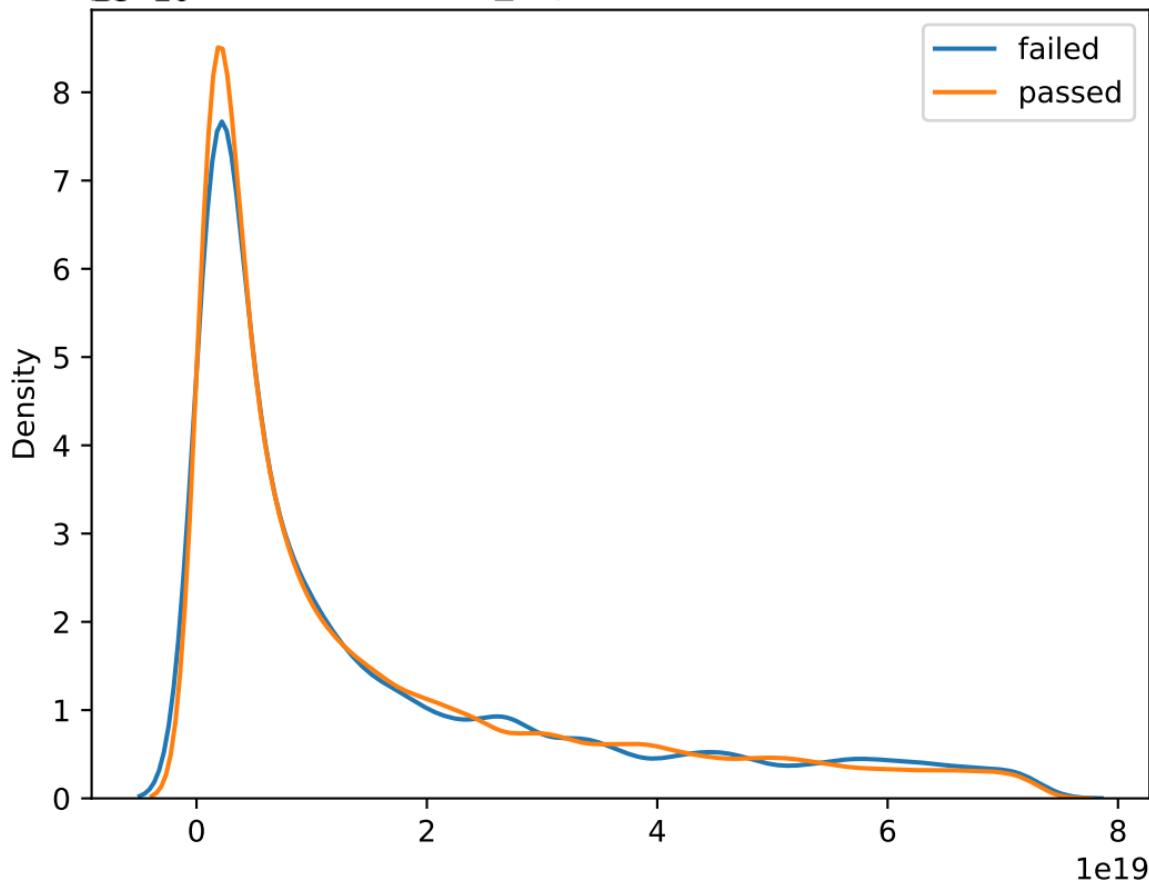
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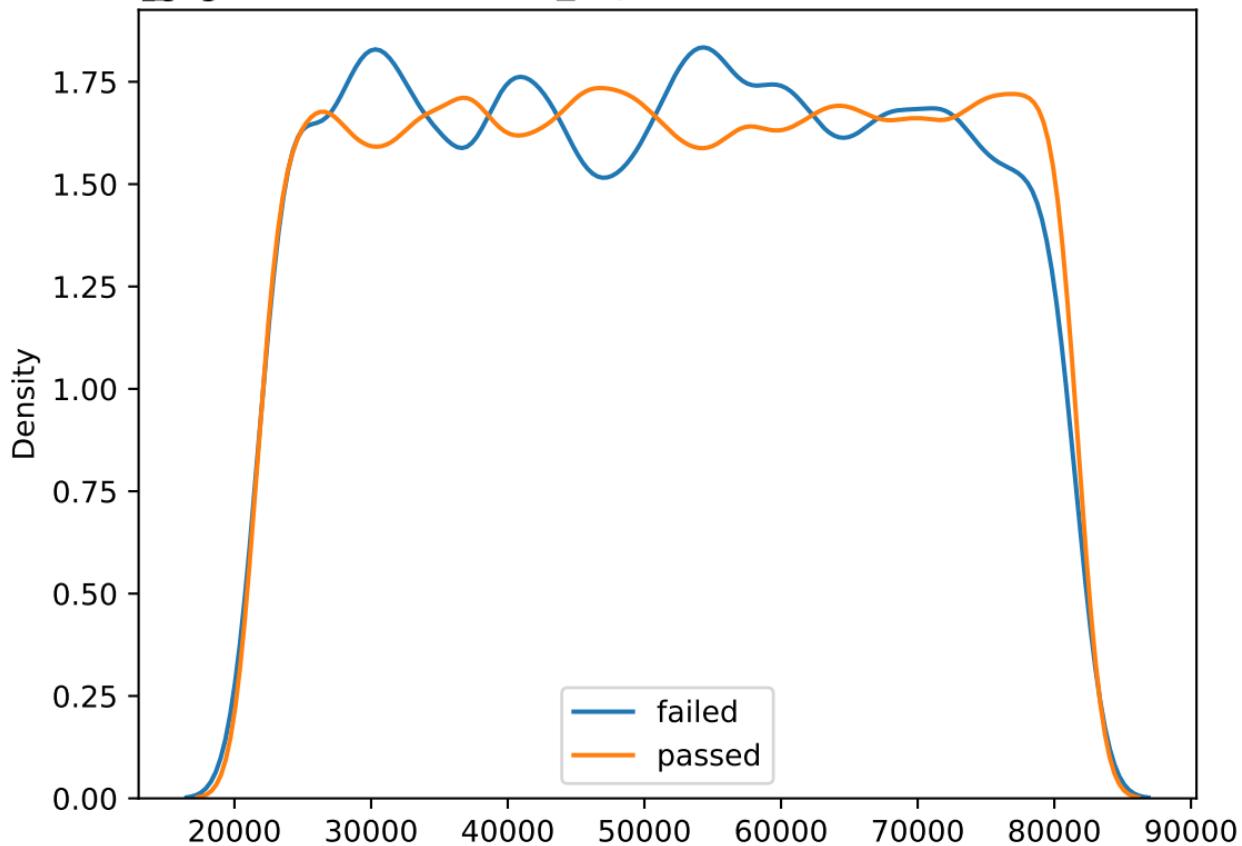
CPOX_Pt/Deutschmann2006_adjusted/22/CH₂X + Pt <=> CHX + HX/Ea



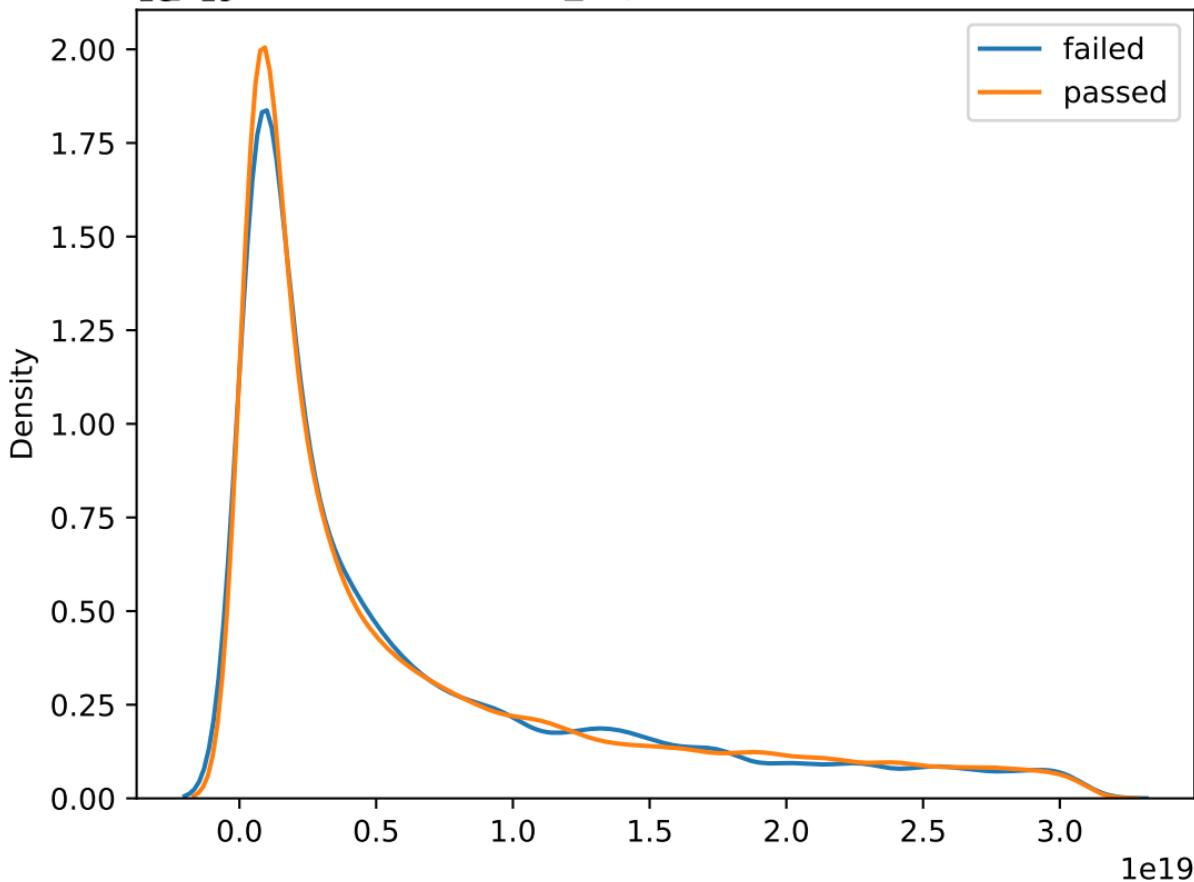
CPOX_{1e19}Pt/Deutschmann2006_adjusted/22/CH2X + Pt <=> CHX + HX/A



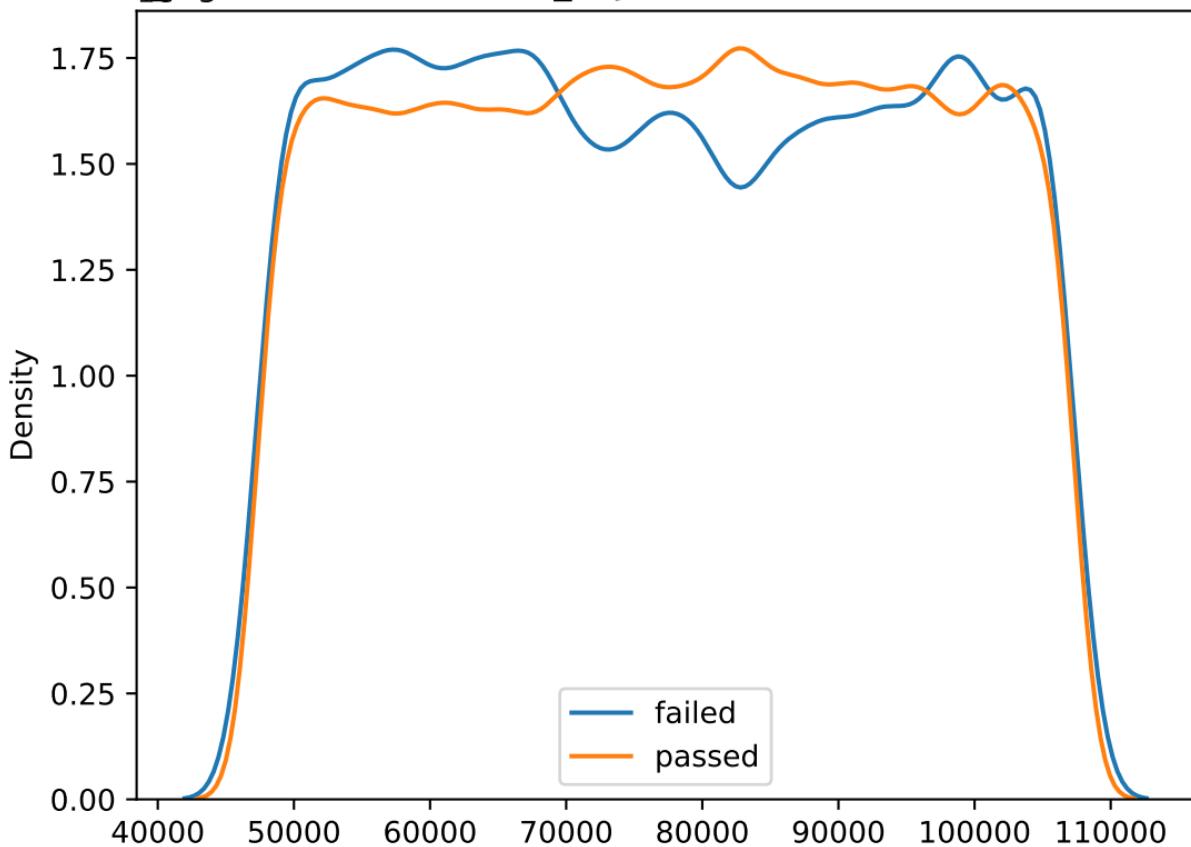
CPOX_{1-e}Pt₅/Deutschmann2006_adjusted/24/CHX + Pt <=> CX + HX/Ea



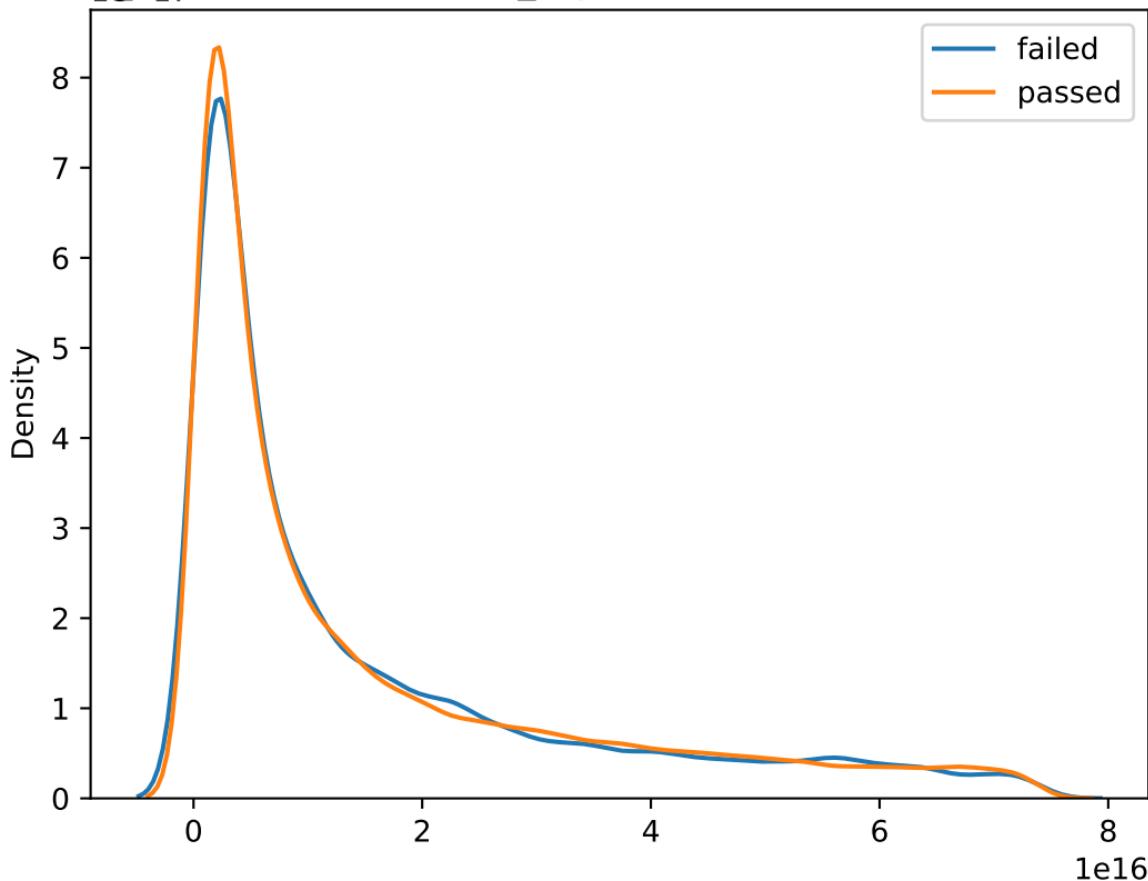
CPOX_{T_ePt/Deutschmann2006_adjusted/24/CHX + Pt <=> CX + HX/A}



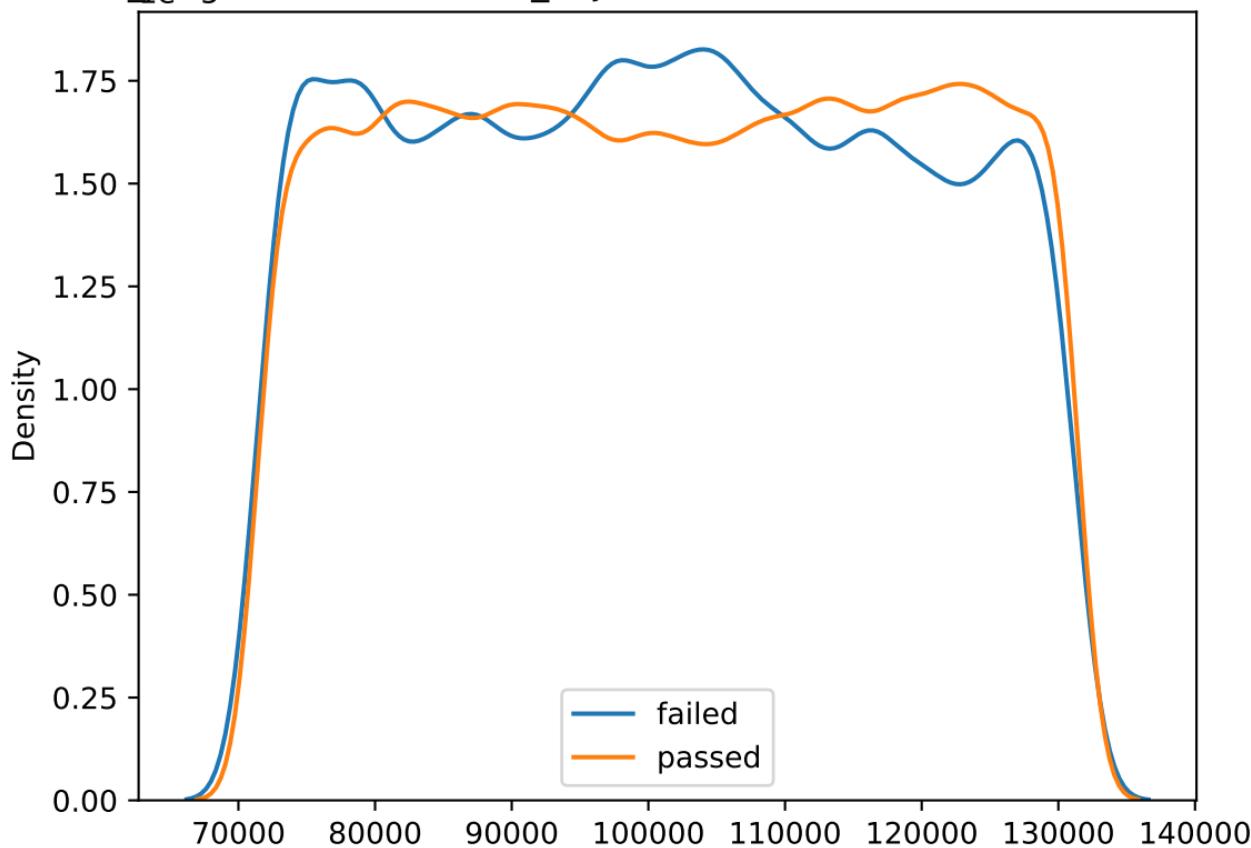
CPOX_{1-e}Pt₅/Deutschmann2006_adjusted/27/HOX + Pt <=> HX + OX/Ea



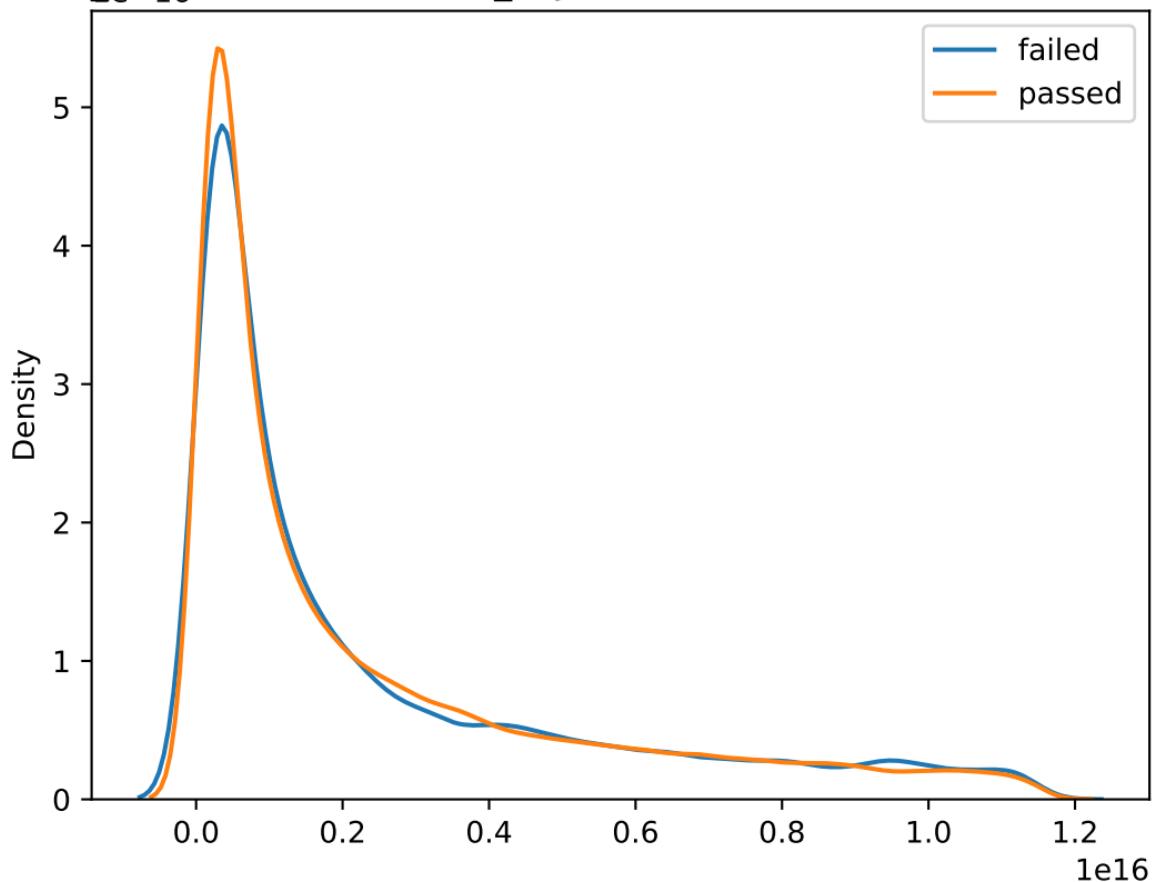
CPOX_ePt/I/Deutschmann2006_adjusted/27/HOX + Pt <=> HX + OX/A



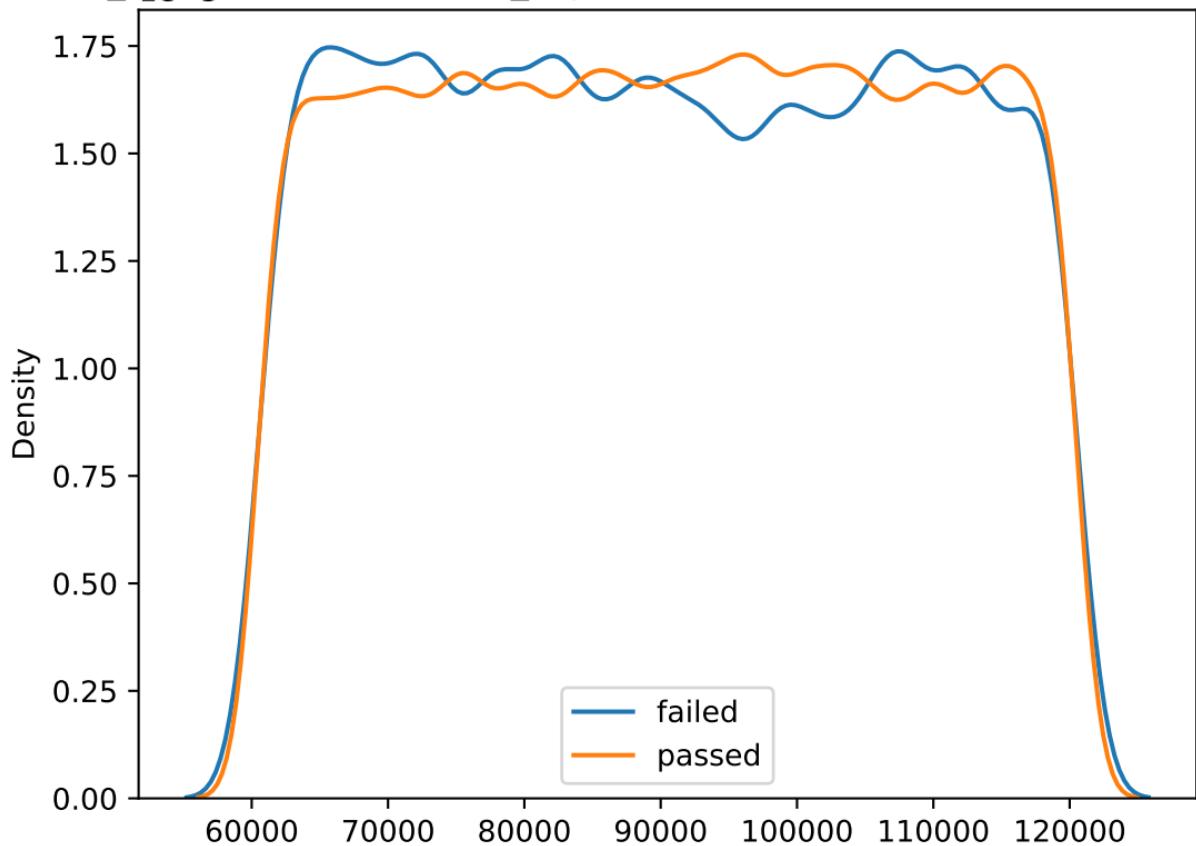
CPOX_Pt/Deutschmann2006_adjusted/28/H2OX + Pt <=> HX + HOX/Ea



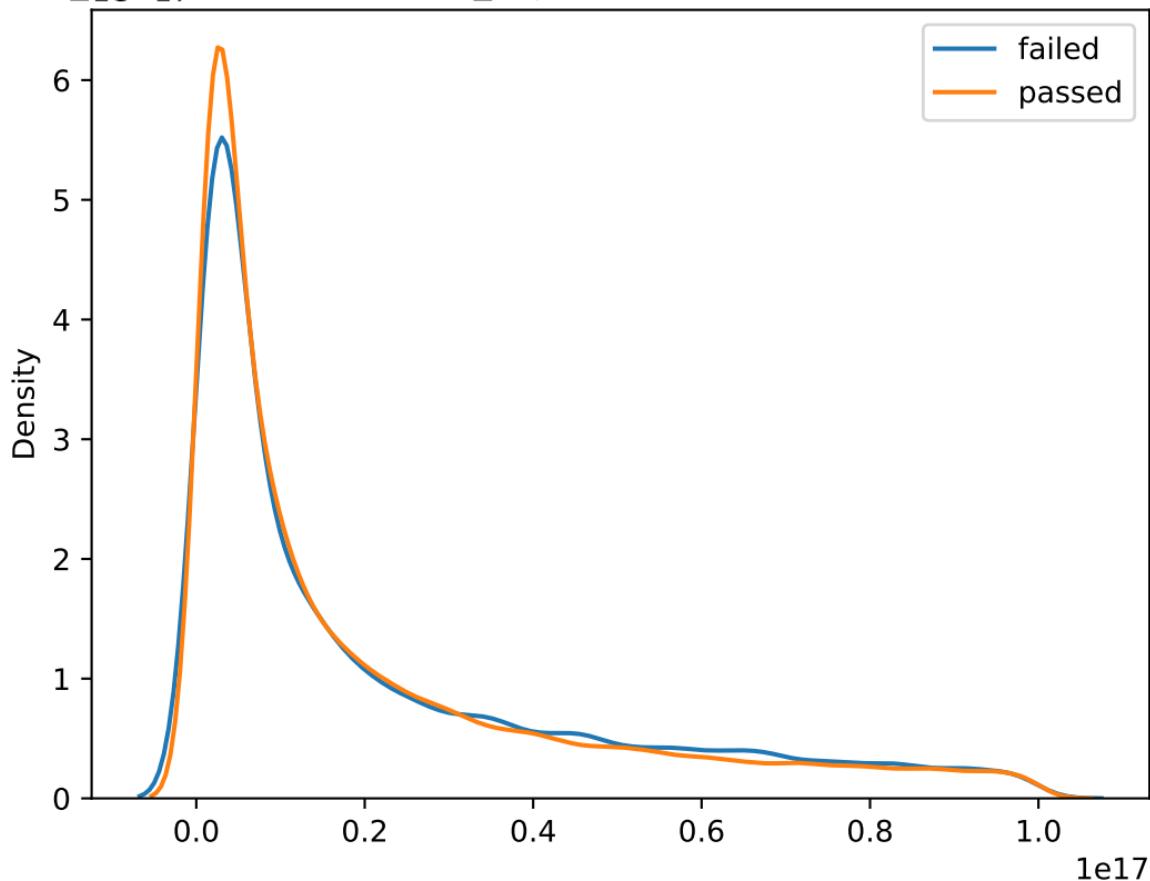
CPOX_{1e16}Pt/Deutschmann2006_adjusted/28/H₂OX + Pt <=> HX + HOX/A



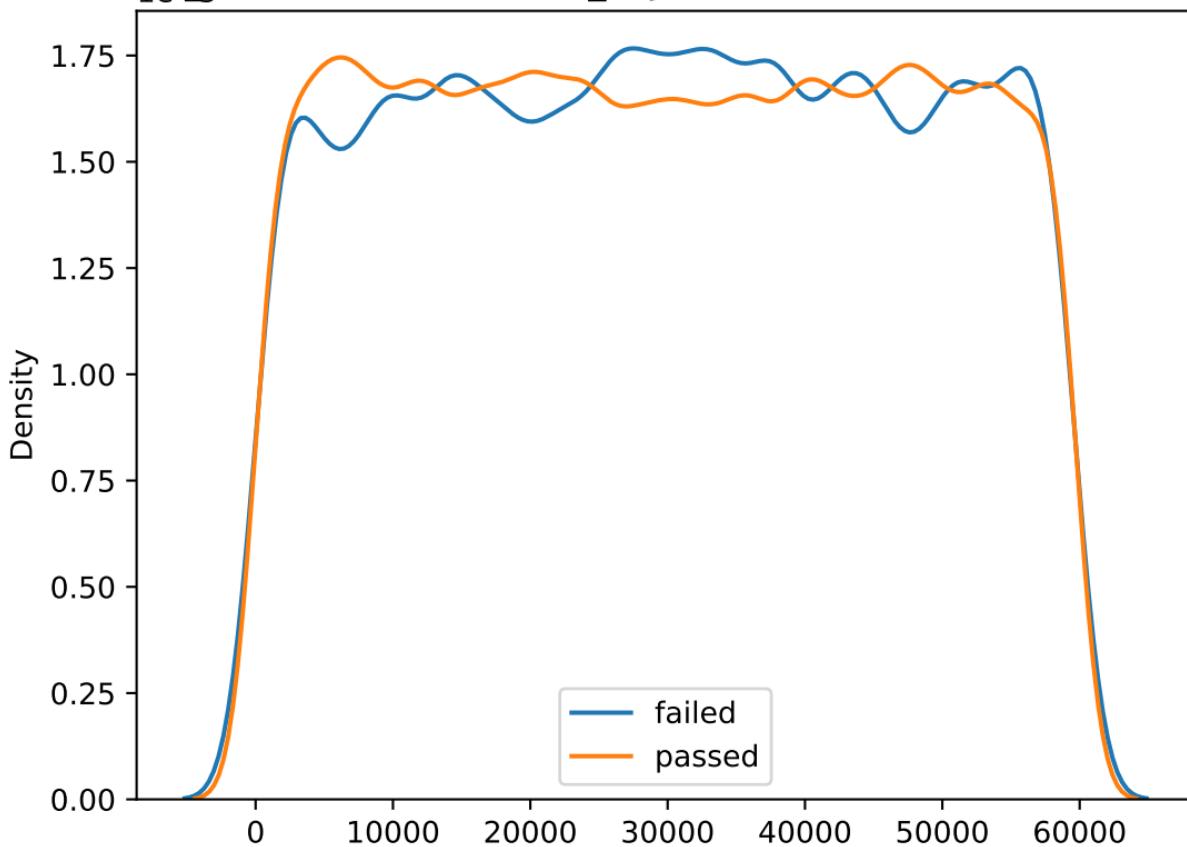
CPOX_Pt/Deutschmann2006_adjusted/30/H₂OX + OX <=> HOX + HOX/Ea



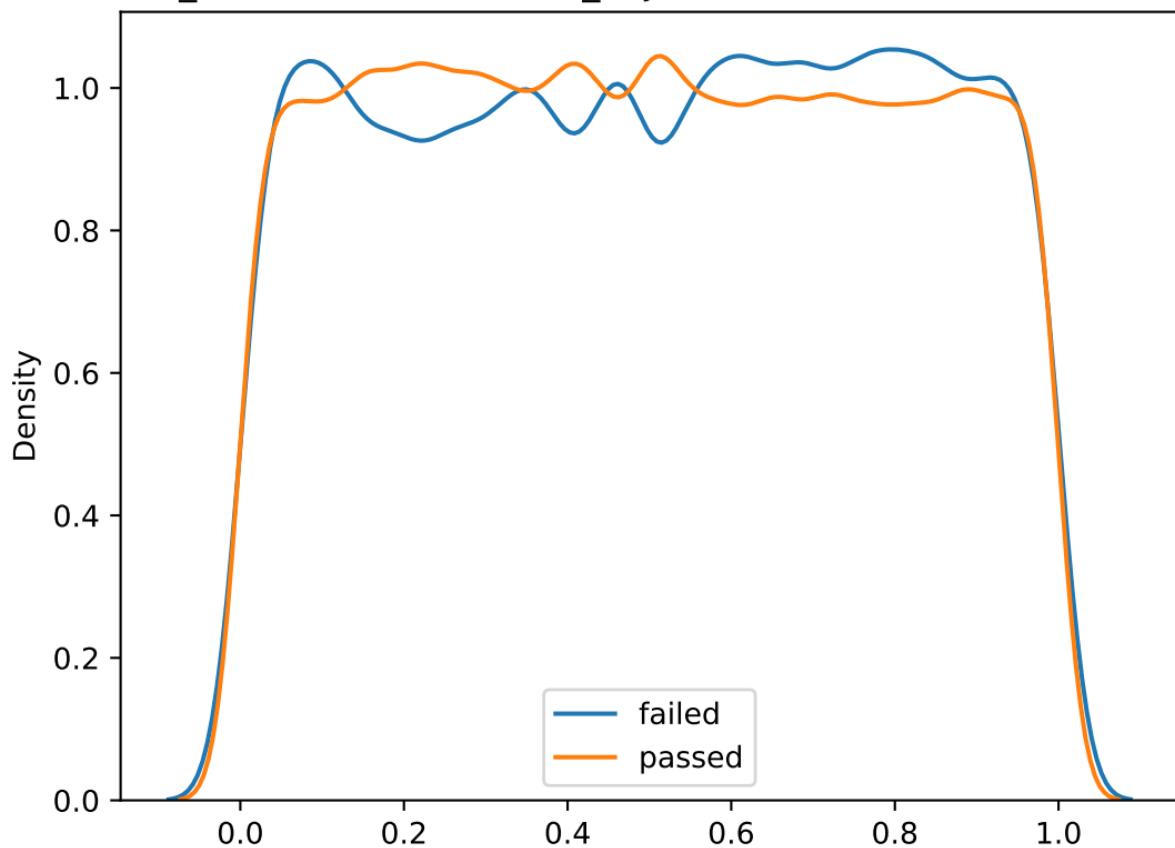
CPOX_Pt/Deutschmann2006_adjusted/30/H2OX + OX <=> HOX + HOX/A



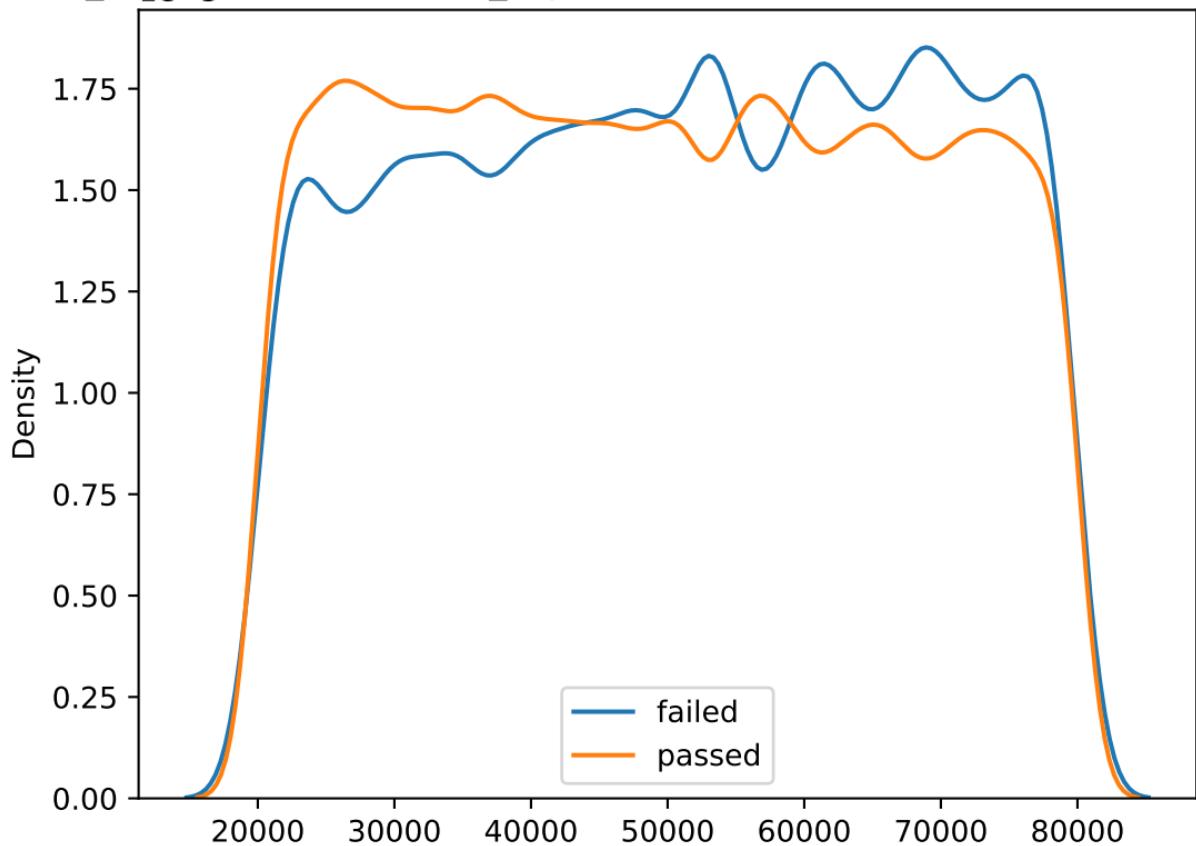
CPoX_Pt/Deutschmann2006_adjusted/31/H2 + CX <=> CH2X/Ea
 $T_e = 5$



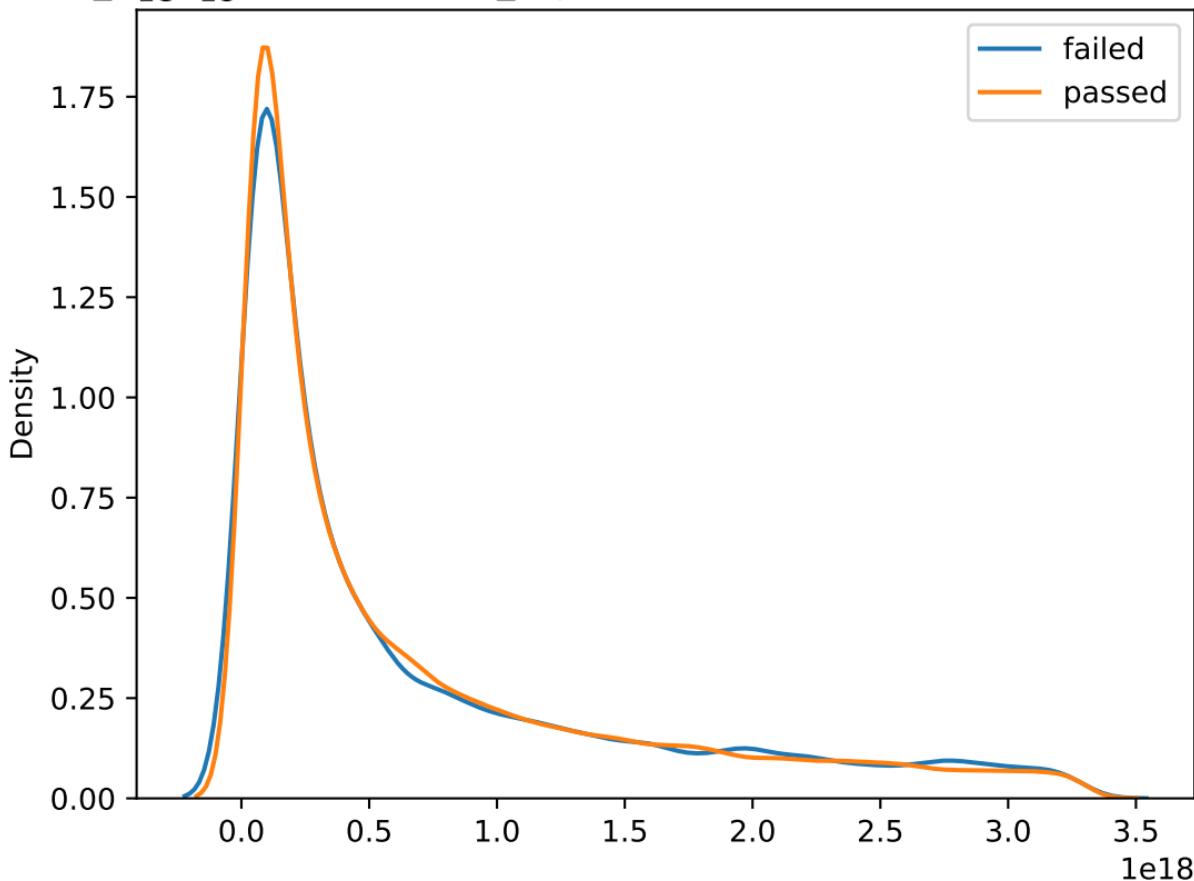
CPOX_Pt/Deutschmann2006_adjusted/31/H2 + CX <=> CH2X/A

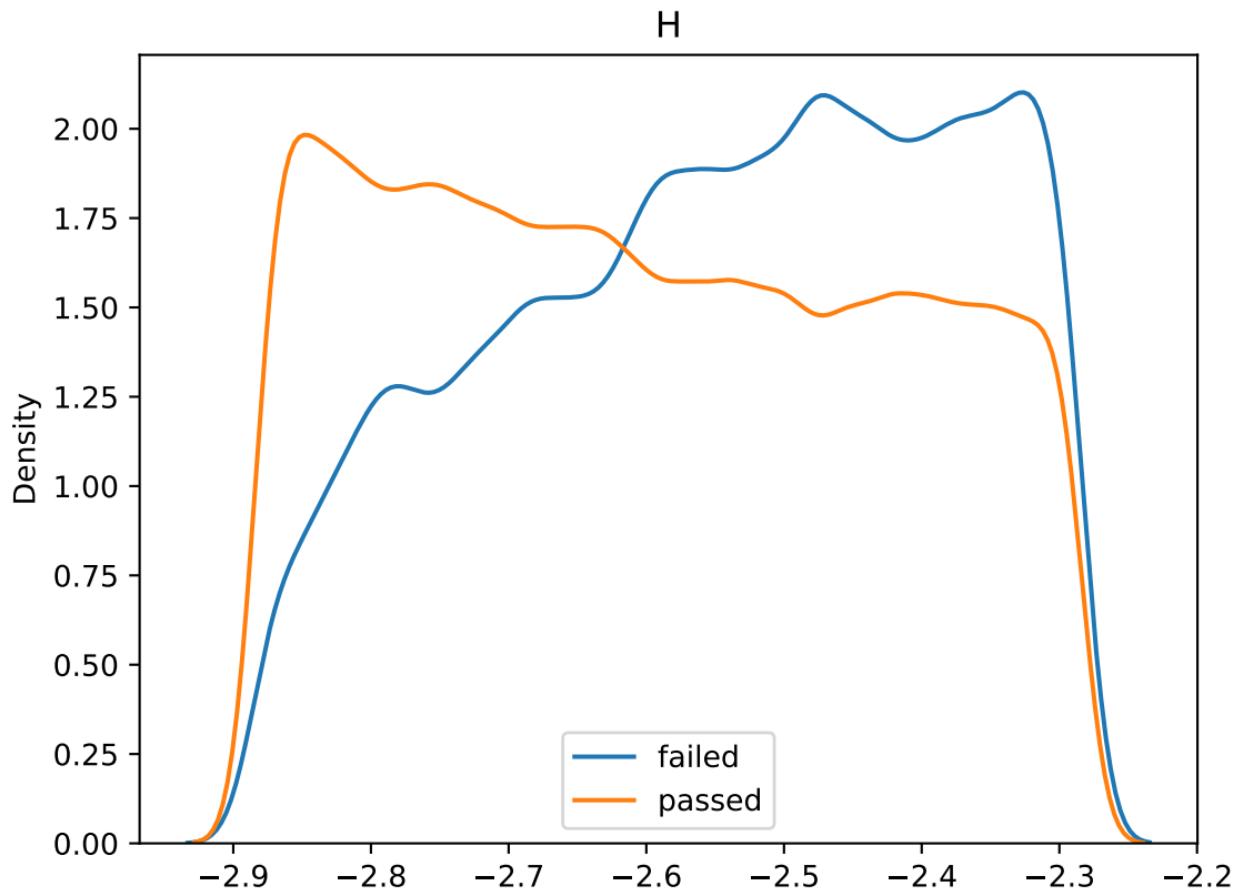


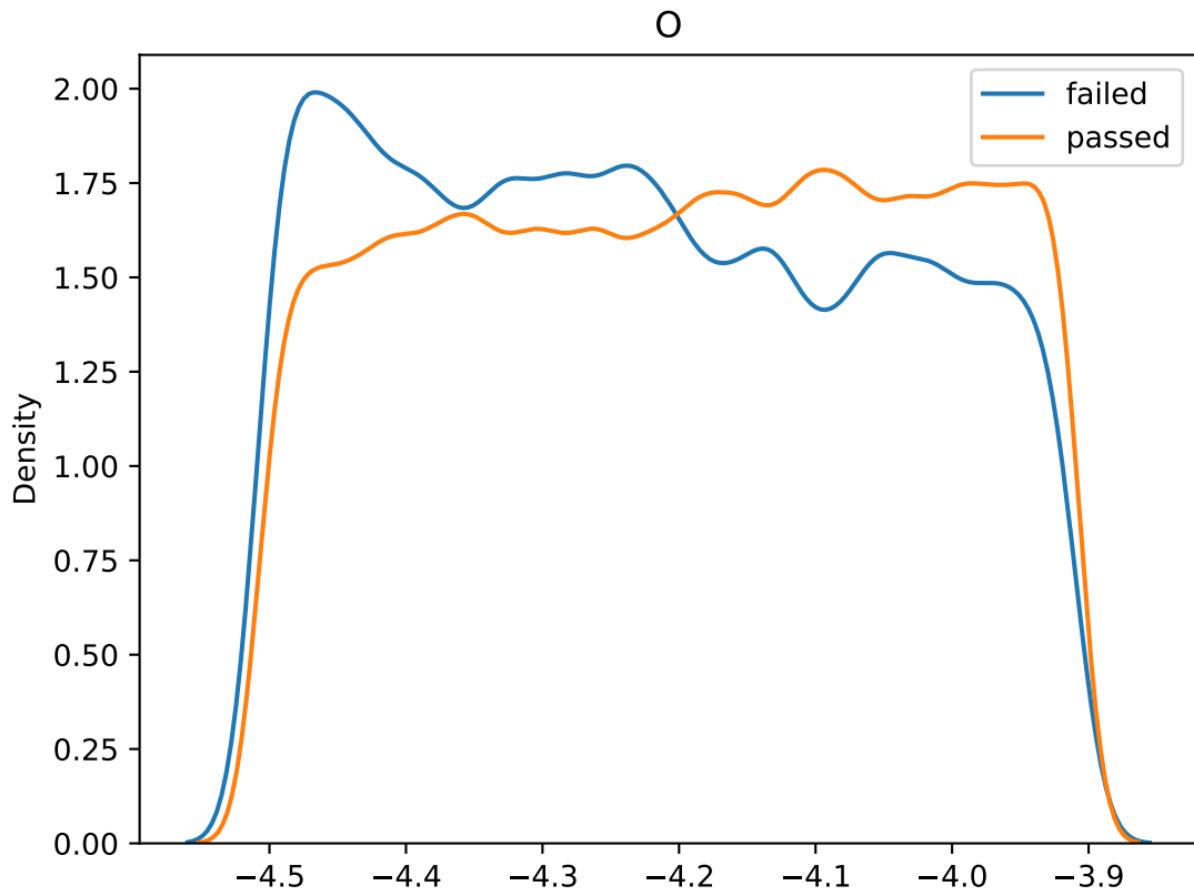
CPOX_Pt/Deutschmann2006_adjusted/34/CH₃X + HX <=> CH₄ + Pt + Pt/E



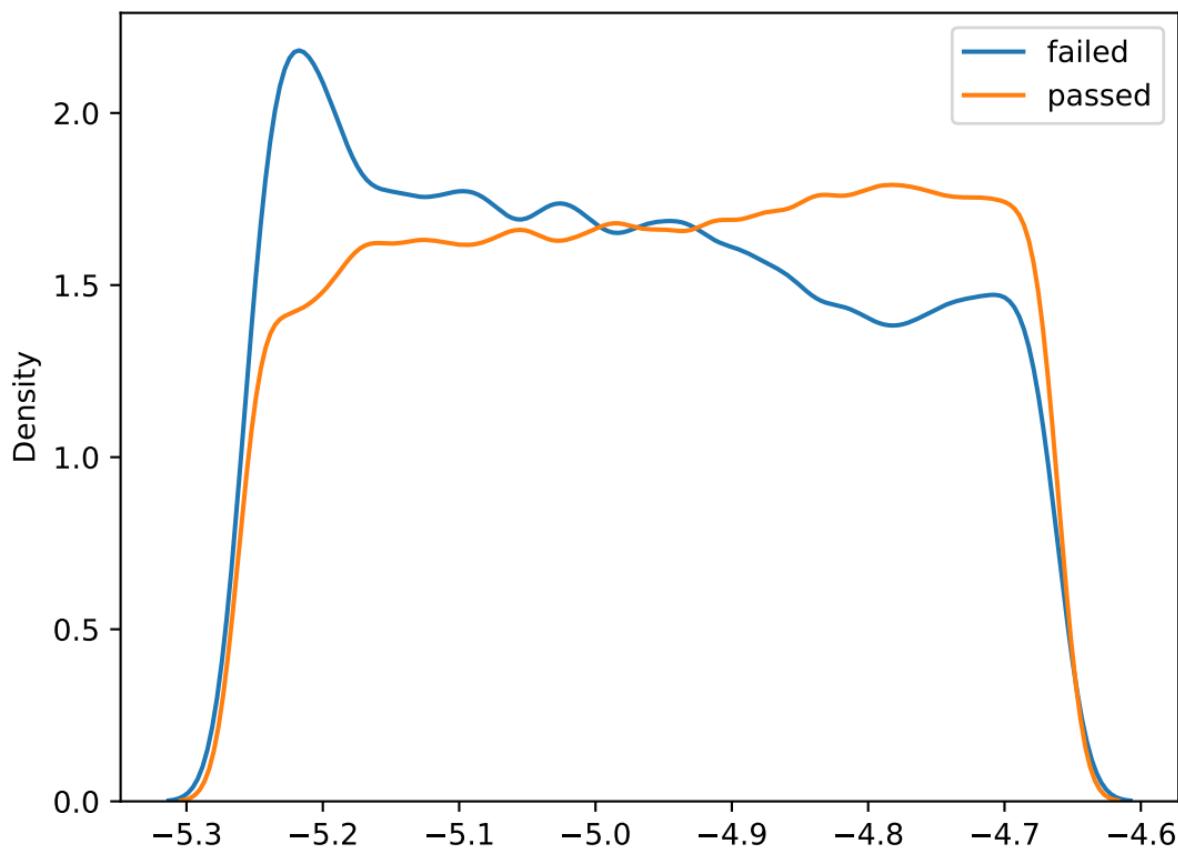
CPOX_Pt/Deutschmann2006_adjusted/34/CH₃X + HX <=> CH₄ + Pt + Pt/A

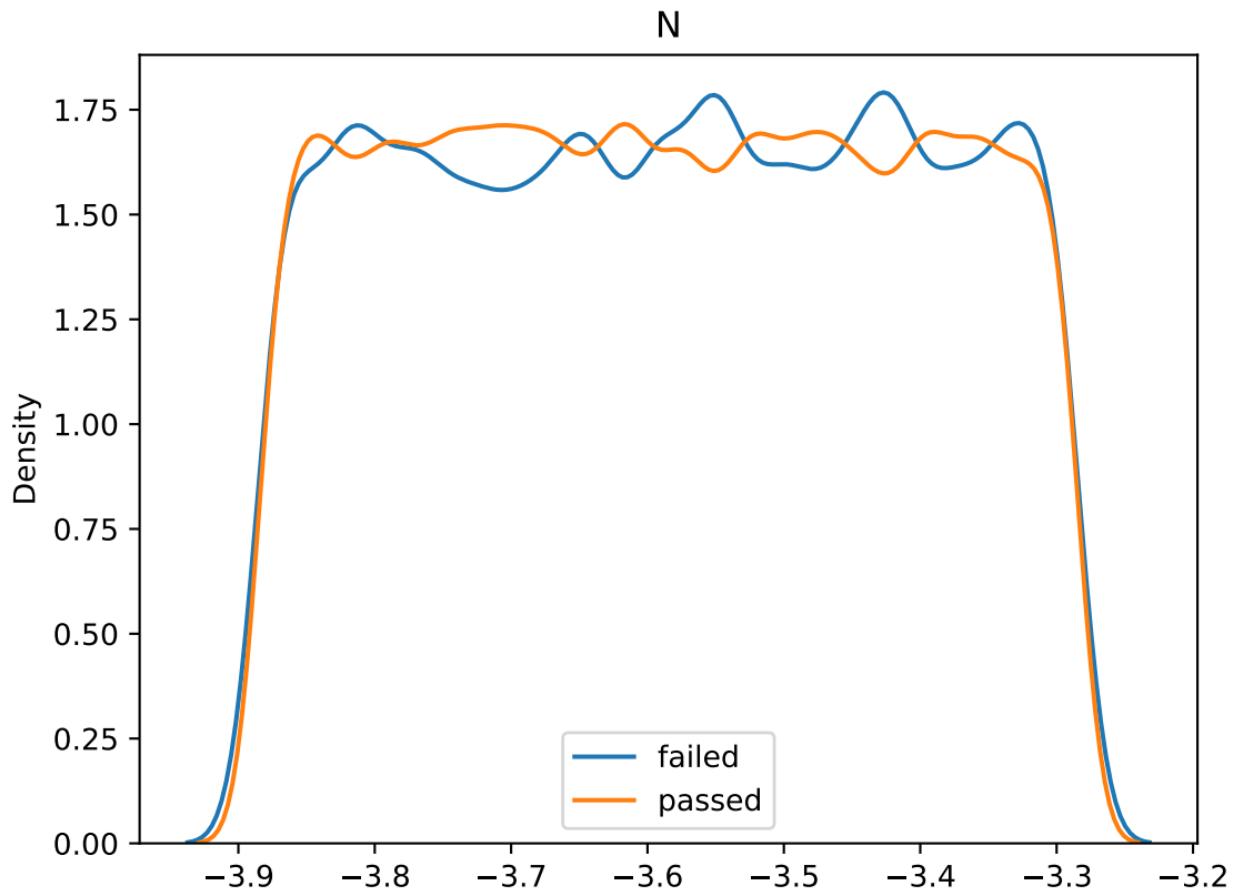






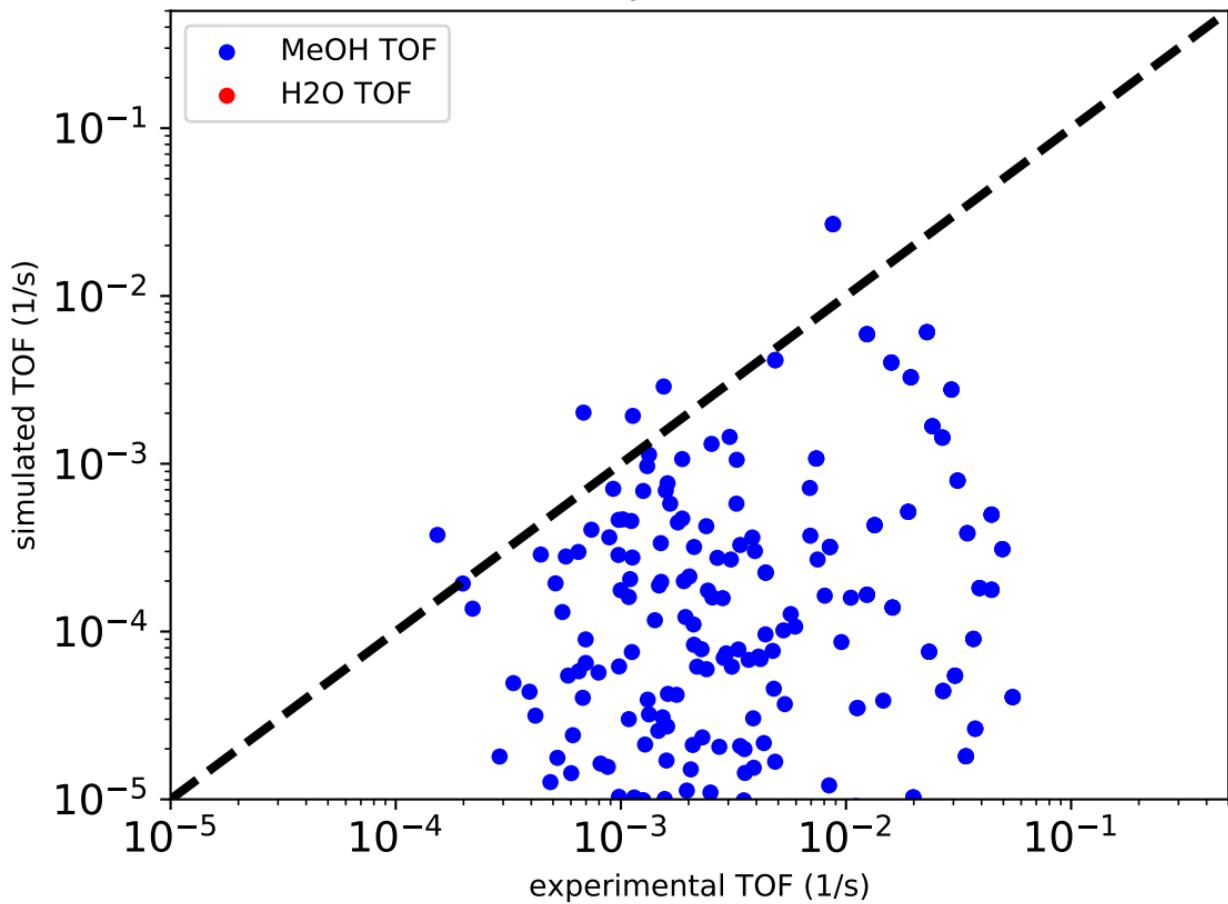
C







lin obj func closest



log obj func closest

