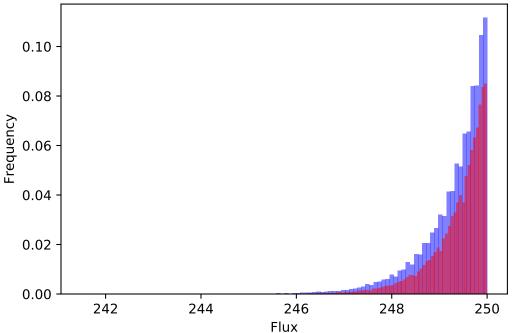
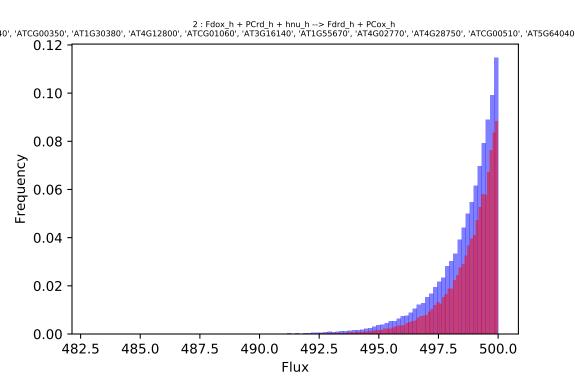
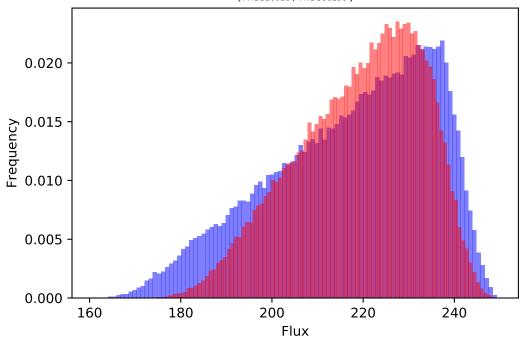


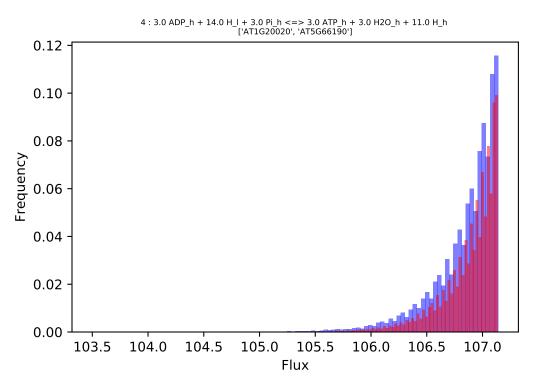
1 : 2.0 H_h + 2.0 PCox_h + PQH2_h --> 4.0 H_l + 2.0 PCrd_h + PQ_h ['AT2G26500', 'AT4G03280', 'ATCG00720', 'ATCG00600', 'ATCG00730', '2*ATCG00540', 'ATCG00210', 'ATCG00590']

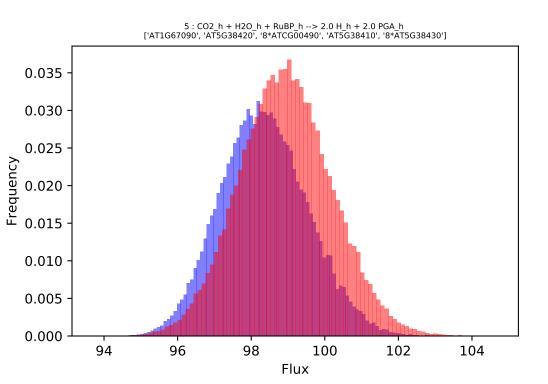


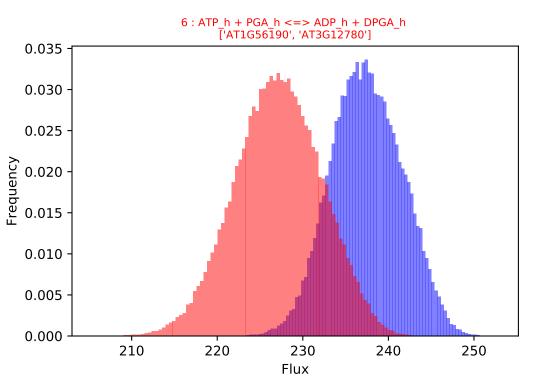


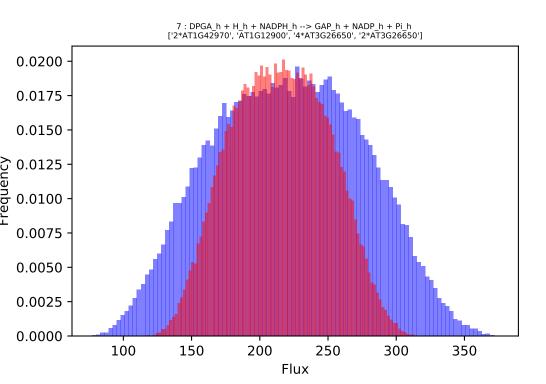
3: 2.0 Fdrd_h + H_h + NADP_h --> 2.0 Fdox_h + NADPH_h ['AT1G20020', 'AT5G66190']

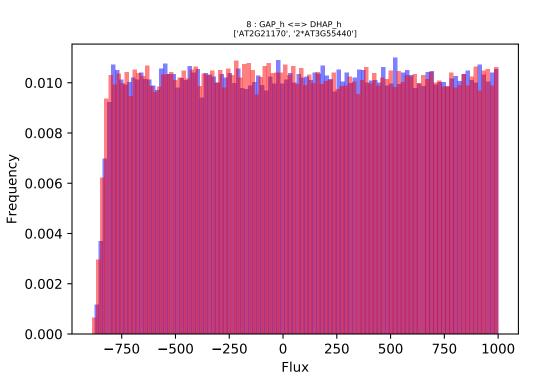


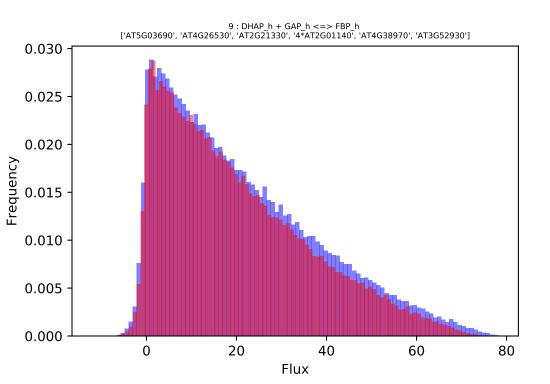


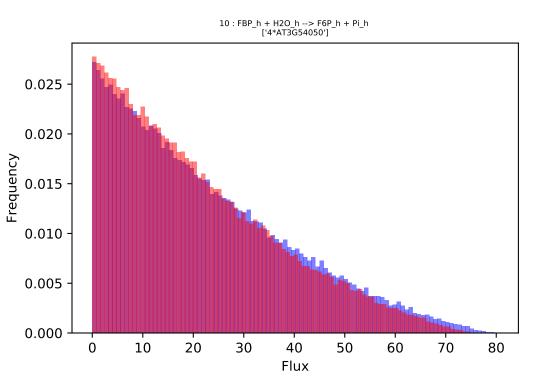


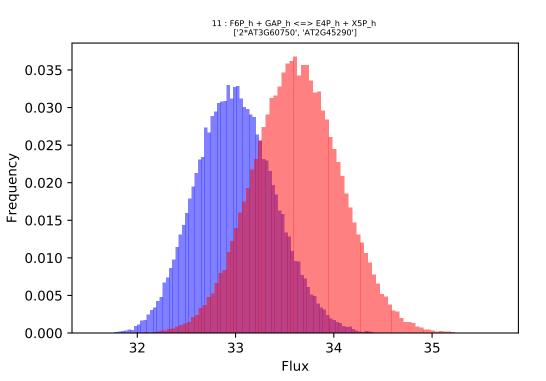




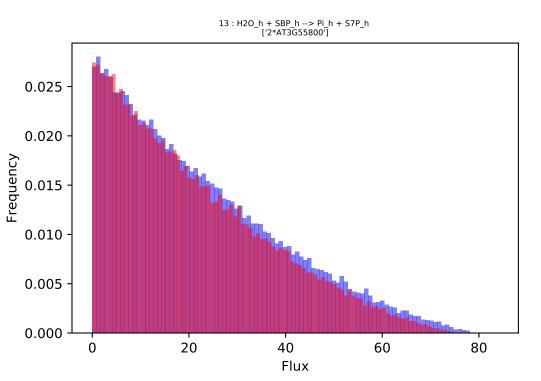




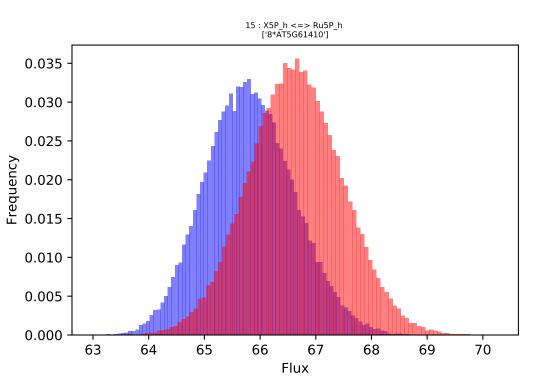


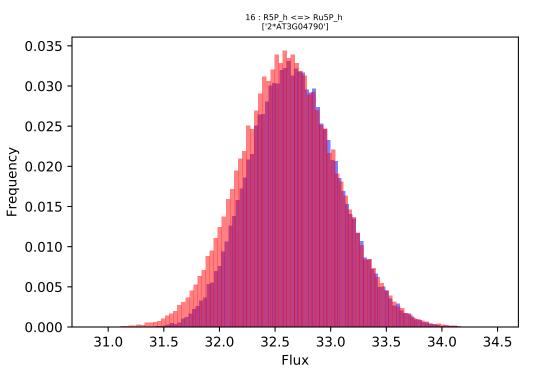


12 : DHAP_h + E4P_h --> SBP_h ['AT5G03690', 'AT4G26530', 'AT2G21330', '4*ĀT2G01140', 'AT4G38970', 'AT3G52930'] 0.025 0.020 -Frequency 0.015 -0.010 0.005 0.000 20 40 60 80 Flux



14 : GAP_h + S7P_h <=> R5P_h + X5P_h ['2*AT3G60750', 'AT2G45290'] 0.035 0.030 0.025 -Frequency 0.020 0.015 -0.010 -0.005 0.000 32.0 32.5 33.0 31.5 33.5 34.0 34.5 Flux





17 : ATP_h + Ru5P_h --> ADP_h + H_h + RuBP_h ['2*AT1G32060'] 96 98 100 102 104

Flux

0.035

0.030

0.025

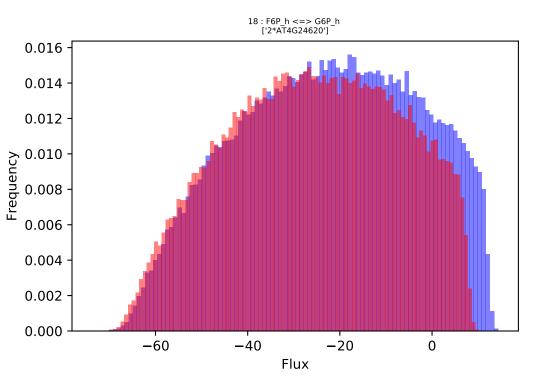
Freduency - 0.015 -

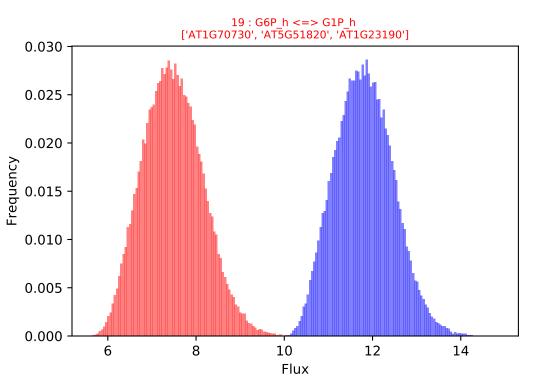
0.010 -

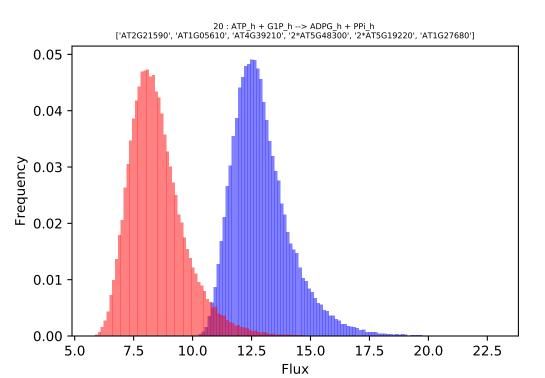
0.005

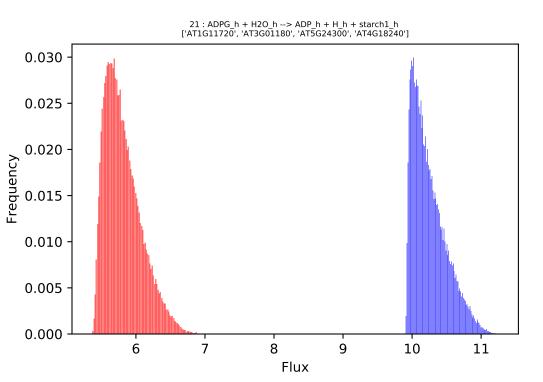
0.000

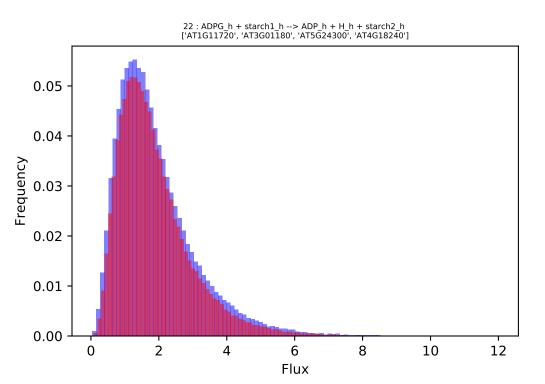
94

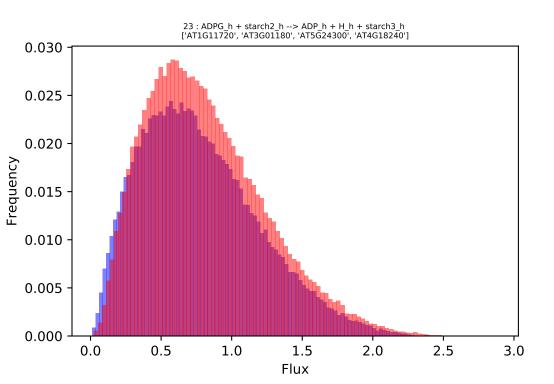




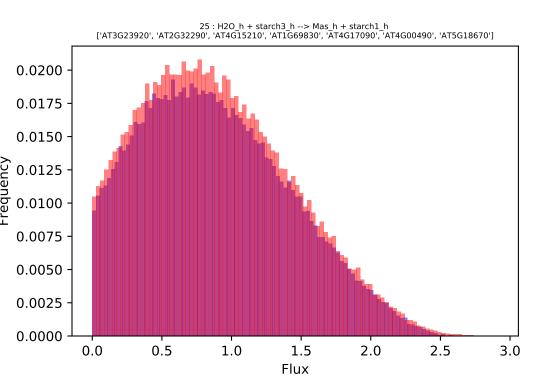








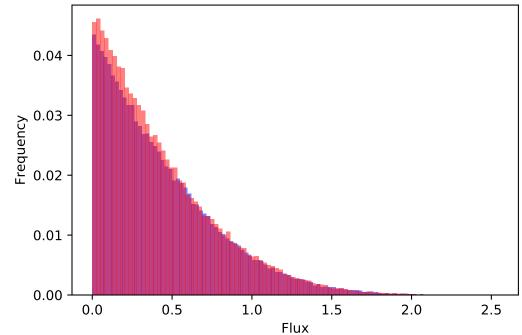
 $24: H2O_h + starch5_h --> Mas_h + starch3_h \\ ['AT3G23920', 'AT5G18670', 'AT4G15210', 'AT1G69830', 'AT4G17090', 'AT4G00490', 'AT2G32290']$ 0.040 0.035 -0.030 -Frequency 0.025 -0.020 0.015 -0.010 -0.005 -0.000 0.00 0.25 0.50 0.75 1.00 1.25 1.50 Flux

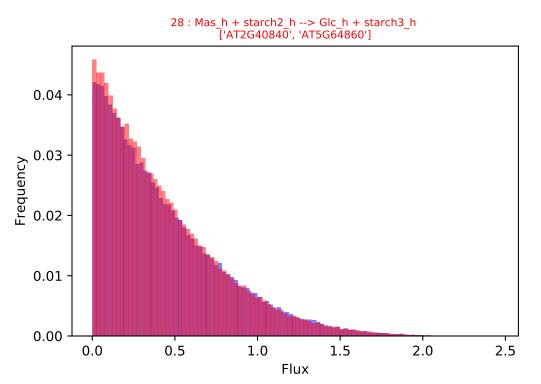


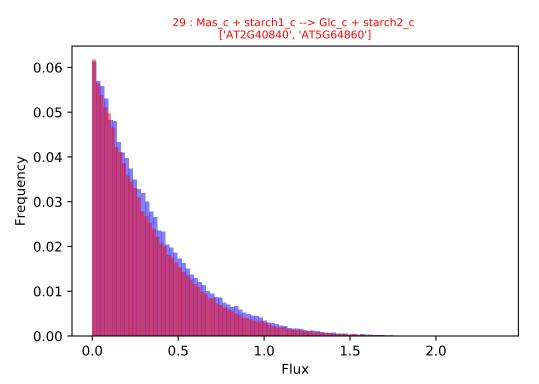
0.040 0.035 -0.030 -0.025 -0.020 0.015 -0.010 -0.005 -0.000 0.25 0.50 1.25 1.50 0.00 0.75 1.00 Flux

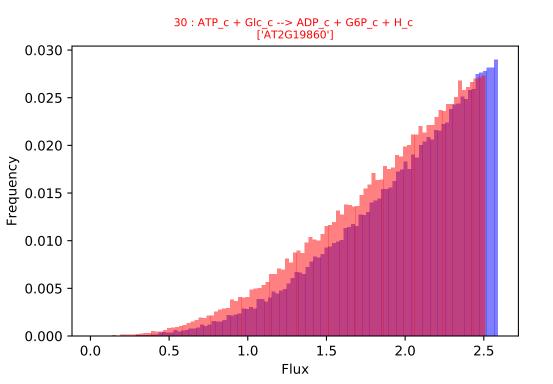
Frequency

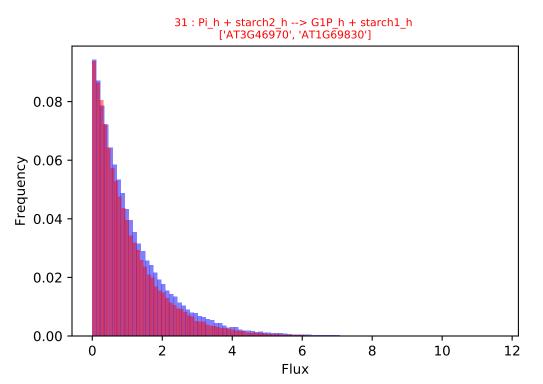
27 : Mas_h + starch1_h --> Glc_h + starch2_h ['AT2G40840', 'AT5G64860']

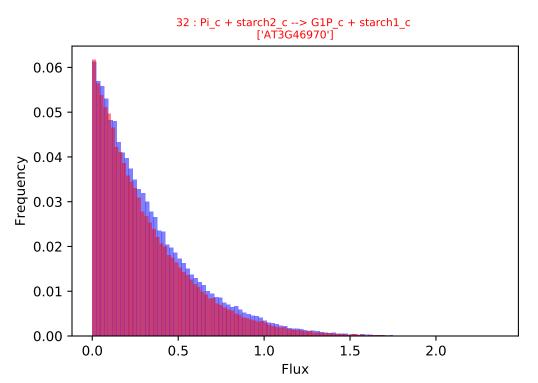


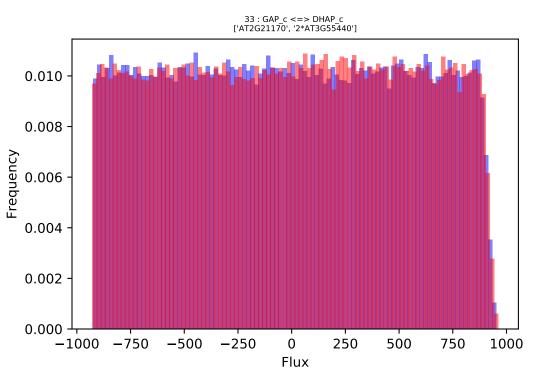




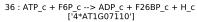


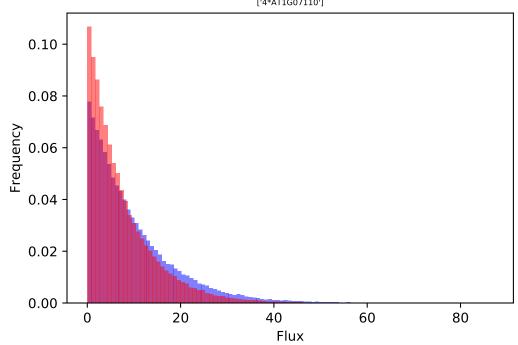


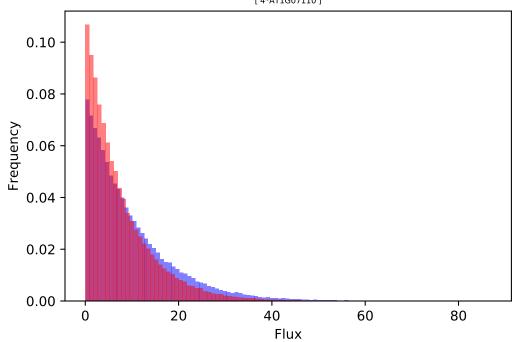


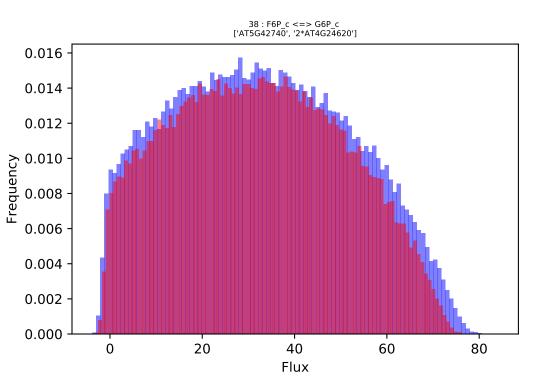


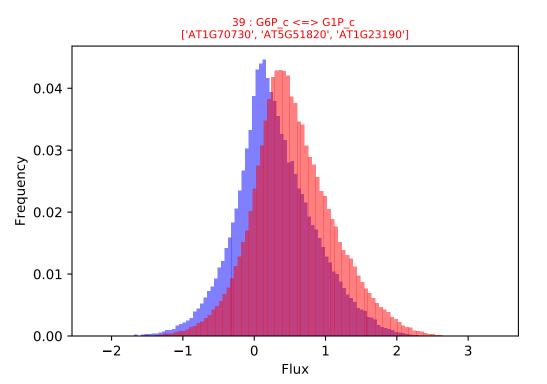
34 : DHAP_c + GAP_c <=> FBP_c ['AT5G03690', 'AT3G52930', 'ĀT2G36460', 'AT4G26530', '4*AT4G26520'] 0.016 0.014 0.012 0.010 -Frequency 0.008 -0.006 0.004 0.002 0.000 20 40 60 80 Flux

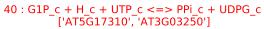


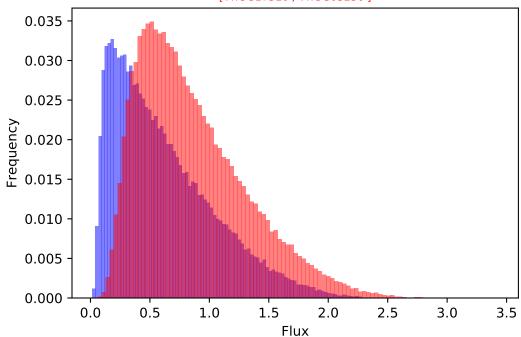


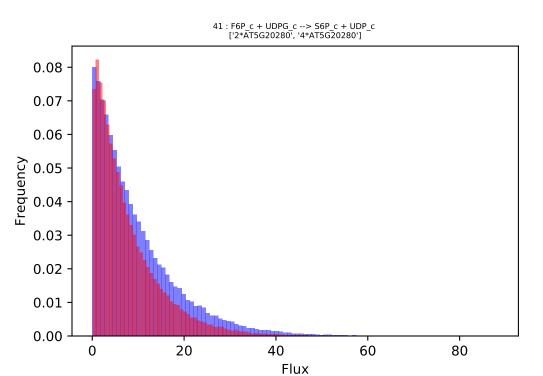




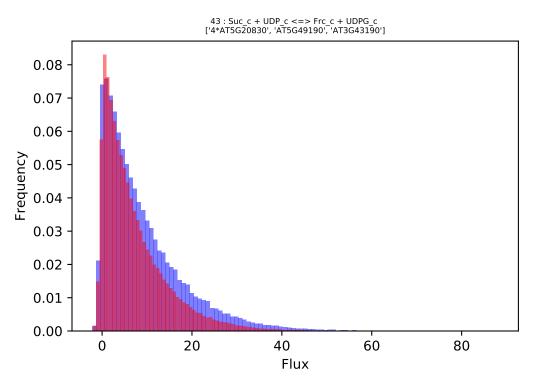


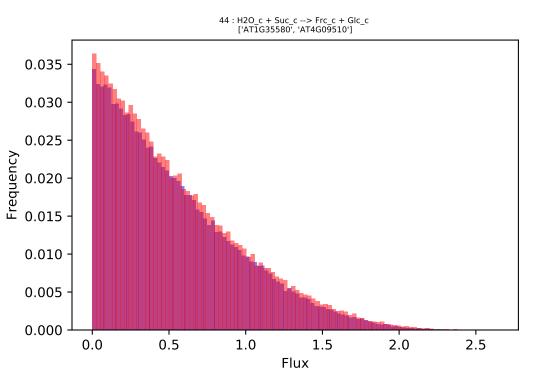


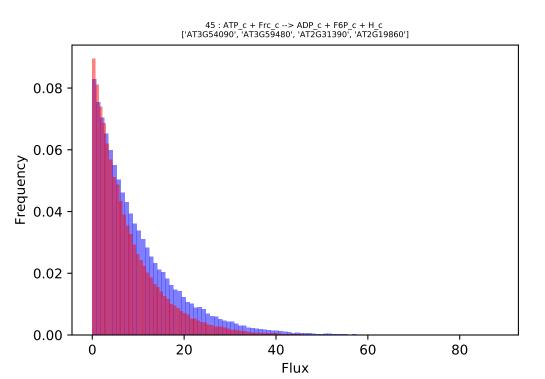


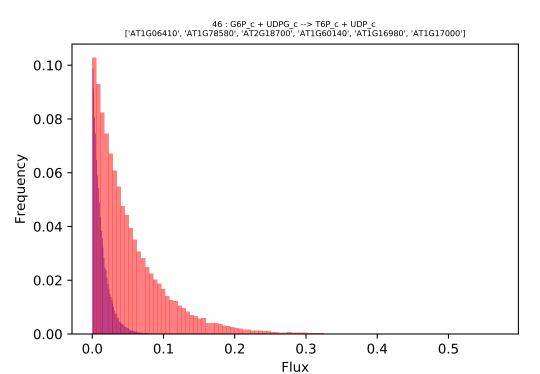


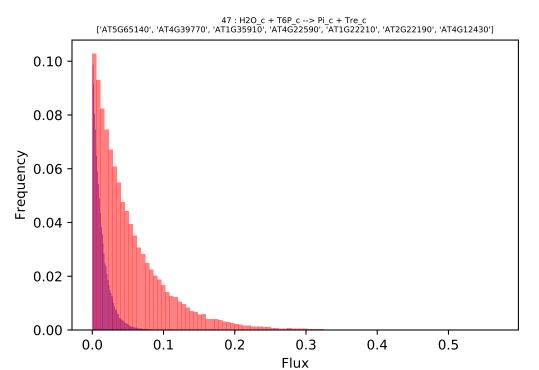
Flux



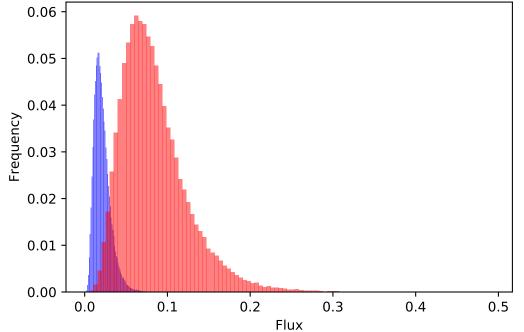




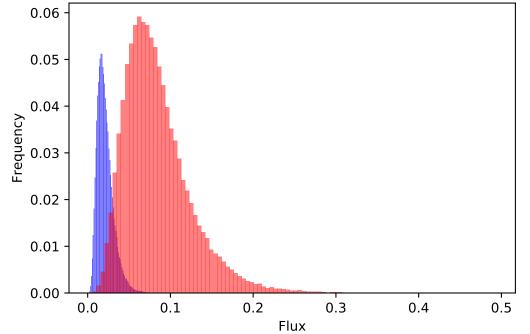




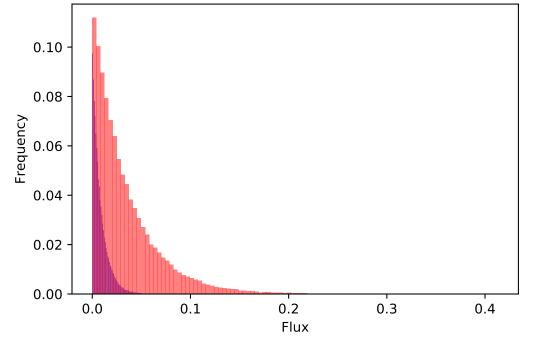
48 : H2O_c + UDPG_c --> UDP_c + cellulose1_c ['AT4G32410', 'AT4G18780', 'AT2G21770', 'AT5G44030', 'AT2G25540', 'AT4G39350', 'AT5G64740', 'AT5G09870', 'AT5G05170', 'AT5G17420'

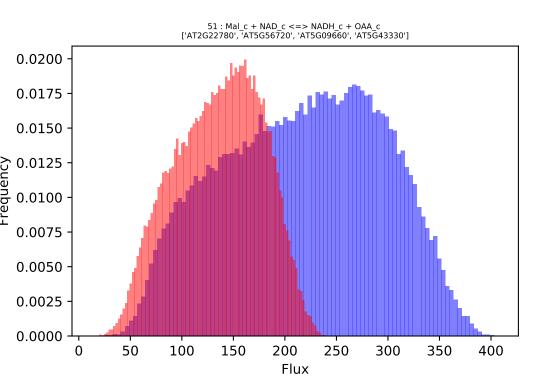


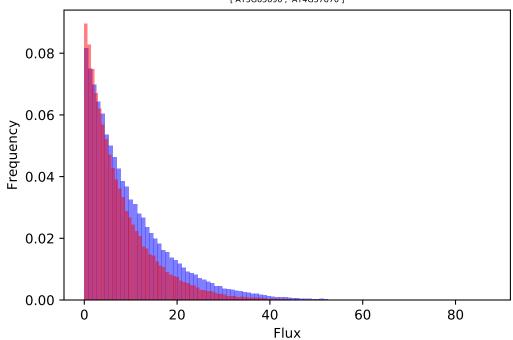
49 : UDPG_c + cellulose1_c --> UDP_c + cellulose2_c ['AT4G32410', 'AT4G18780', 'AT2G21770', 'AT5G44030', 'AT5G17420', 'AT4G39350', 'AT5G64740', 'AT5G05170', 'AT5G09870', 'AT2G25540'

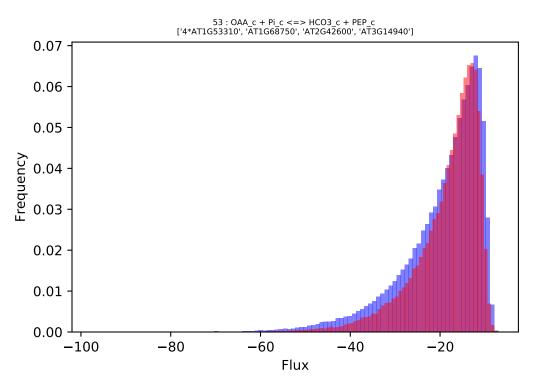


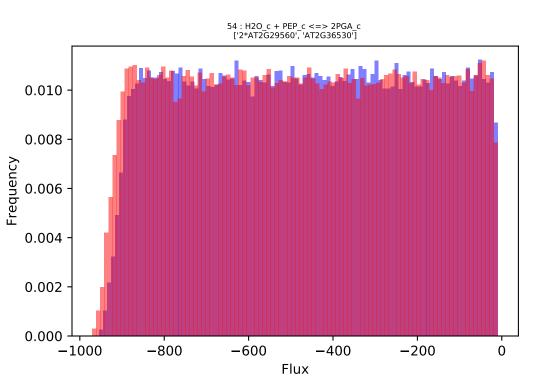
50 : UDPG_c + cellulose2_c --> UDP_c + cellulose3_c ['AT4G32410', 'AT4G18780', 'AT2G21770', 'AT5G44030', 'AT5G17420', 'AT4G39350', 'AT5G64740', 'AT5G05170', 'AT5G09870', 'AT2G25540'

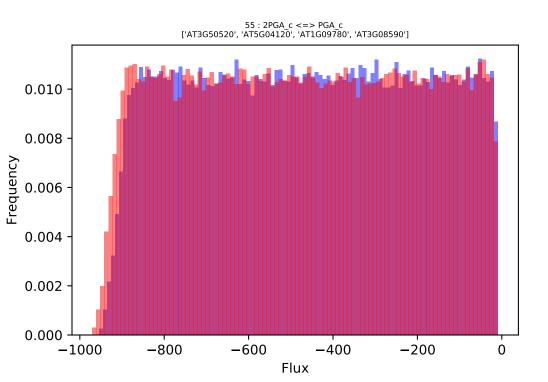


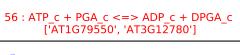


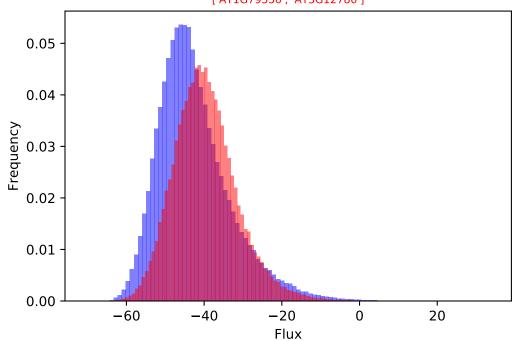


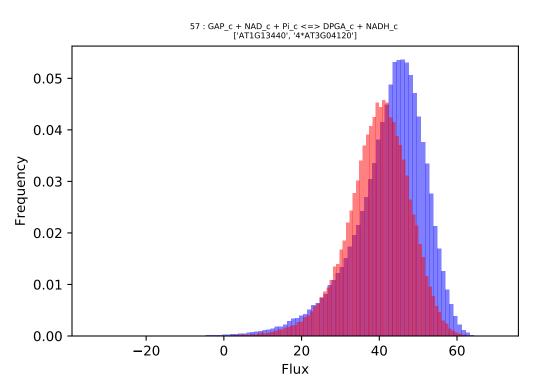




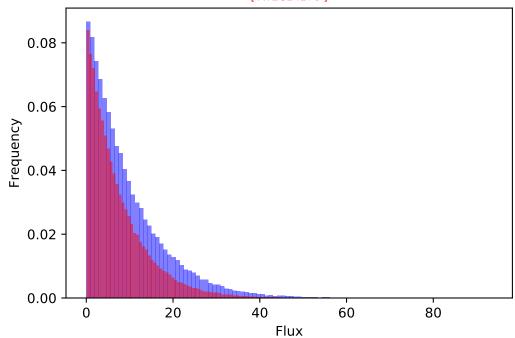


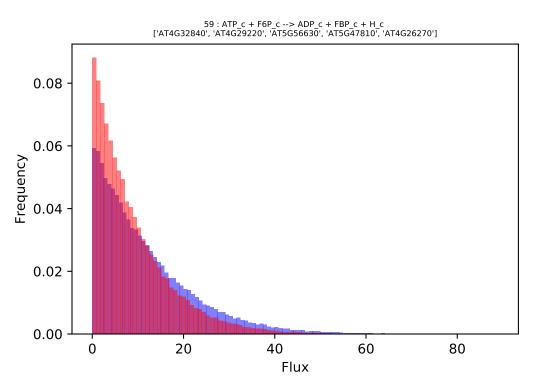


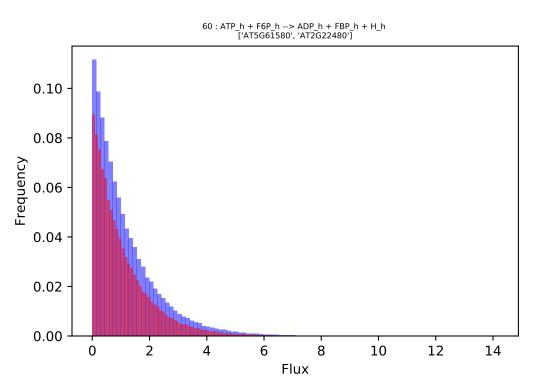


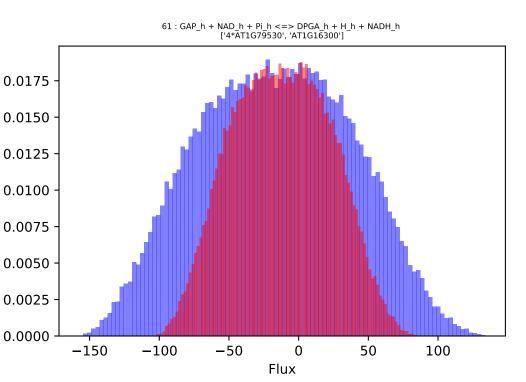


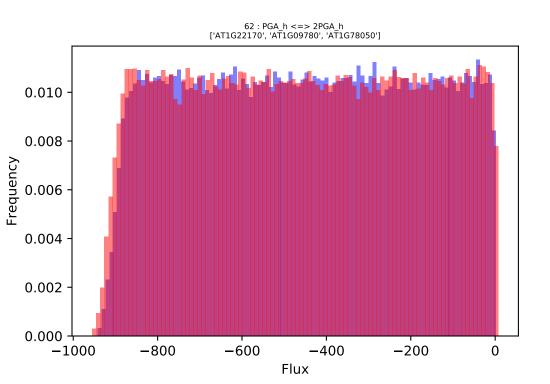


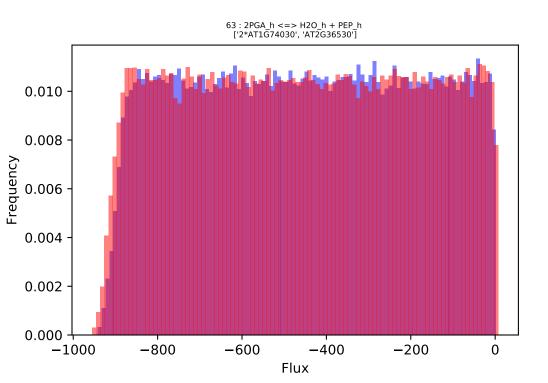


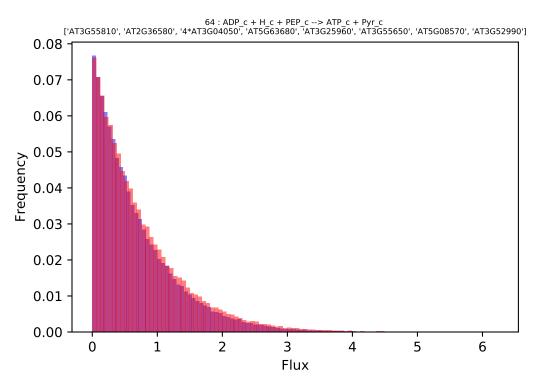


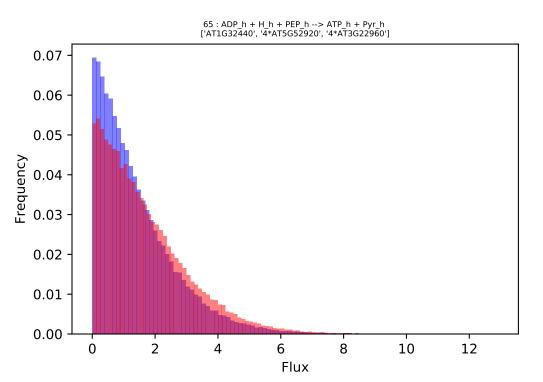


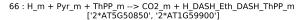


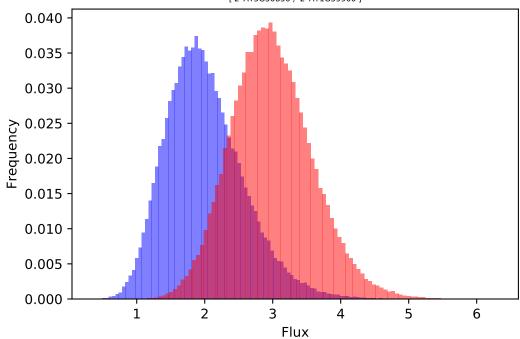




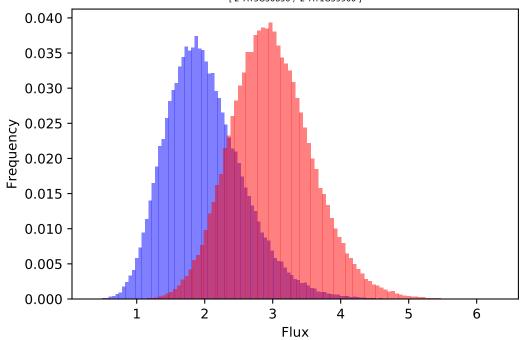




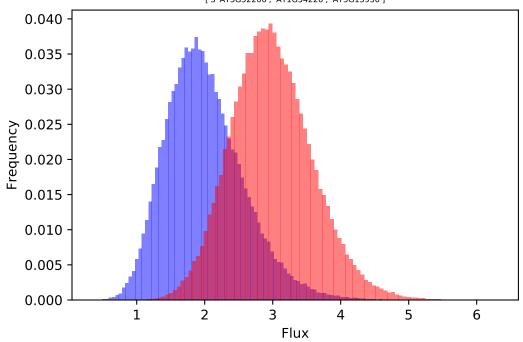


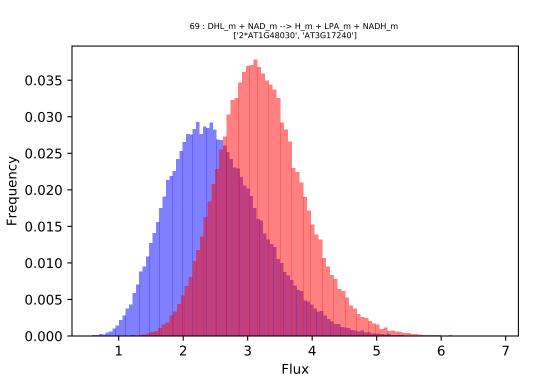


67 : H_DASH_Eth_DASH_ThPP_m + LPA_m --> A_DASH_DHL_m + ThPP_m ['2*AT5G50850', '2*AT1G59900']

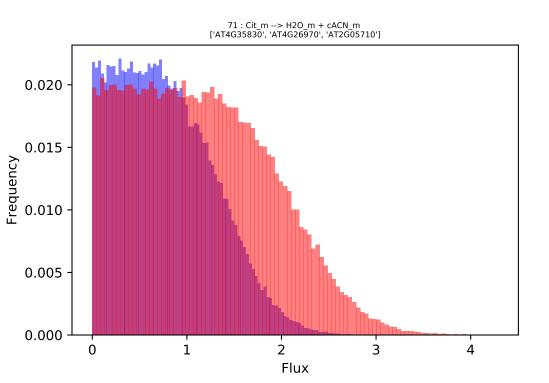


68 : A_DASH_DHL_m + CoA_m --> A_DASH_CoA_m + DHL_m ['3*AT3G52200', 'AT1G54220', 'AT3G13930']

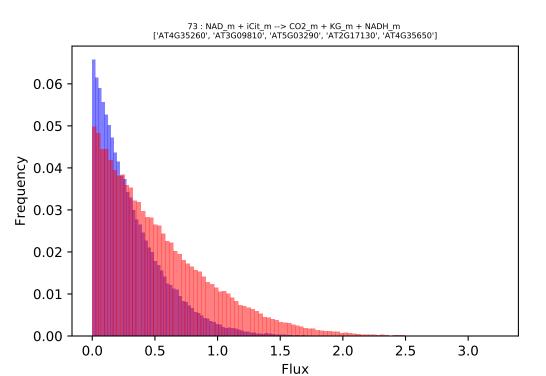




0.040 -0.035 0.030 Ledneuck 0.020 0.015 0.010 -0.005 -0.000 Flux



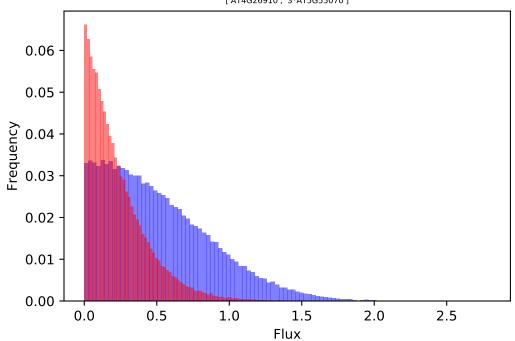
72 : H2O_m + cACN_m --> iCit_m ['AT4G35830', 'AT4G26970', 'AT2G05710'] 0.020 Frequency - 010.0 -0.005 -0.000 Flux



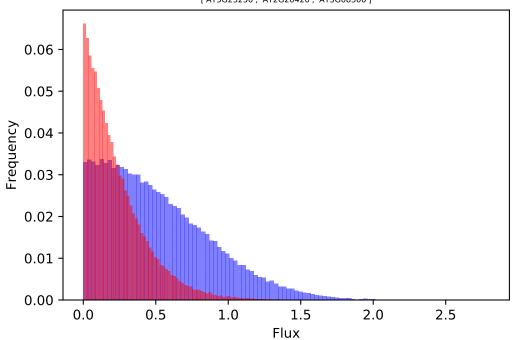
 $74: H_m + KG_m + LPA_m --> CO2_m + S_DASH_DHL_m \\ ['2*AT5G65750', 'AT3G55410']$ 0.06 -0.05 -Frequency - 80.0 - 40.0 0.02 0.01 0.00 2.0 0.0 0.5 1.5 2.5 1.0

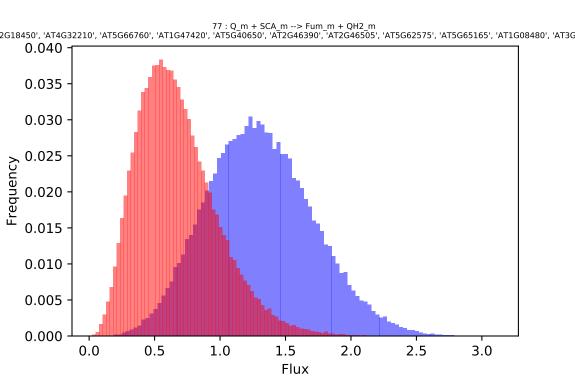
Flux

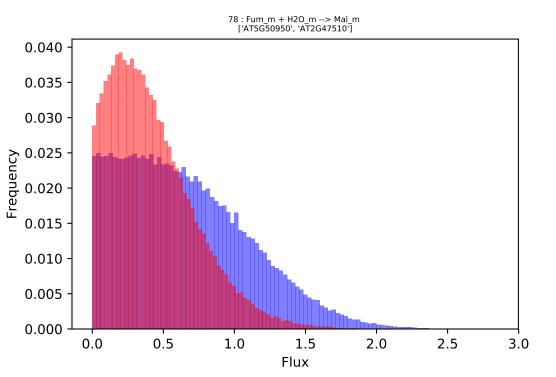
 $75: CoA_m + S_DASH_DHL_m --> DHL_m + S_DASH_CoA_m \\ ['AT4G26910', '3*AT5G55070']$

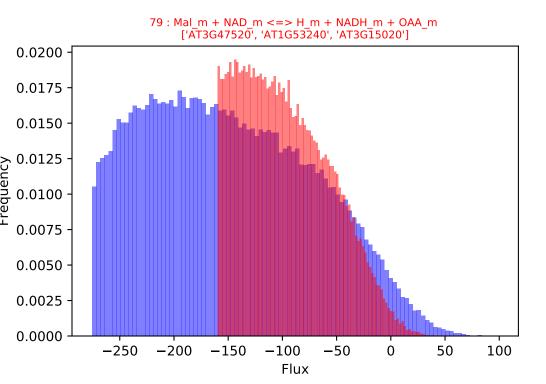


76 : ADP_m + Pi_m + S_DASH_CoA_m --> ATP_m + CoA_m + SCA_m ['AT5G23250', 'AT2G20420', 'AT5G08300']

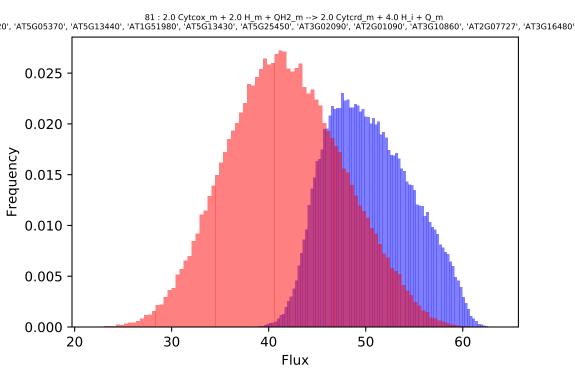




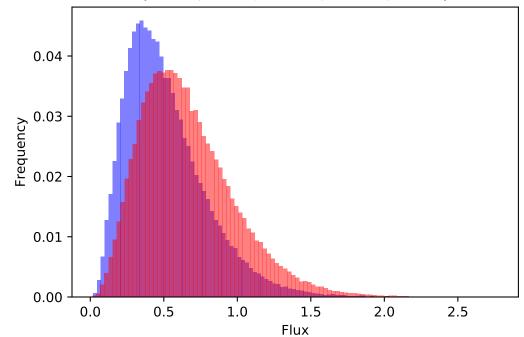


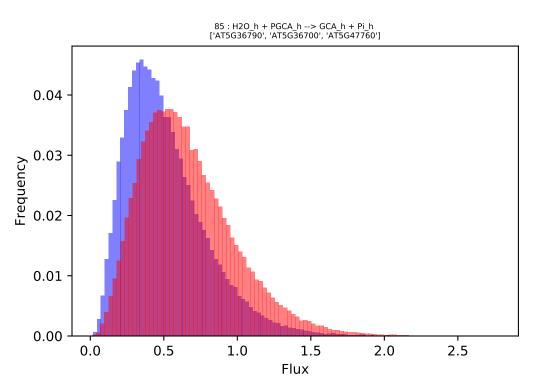


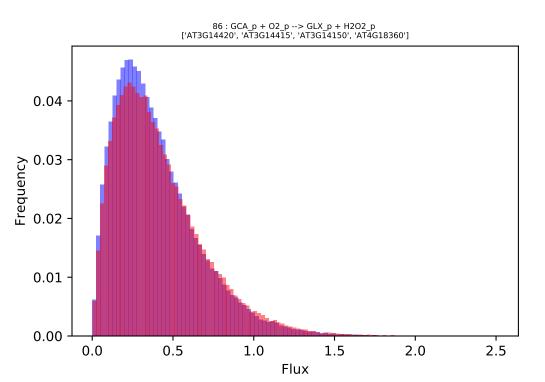
80 : 5.0 H_m + NADH_m + Q_m --> 4.0 H_i + NAD_m + QH2_m o', 'ATMG01275', 'ATMG00285', 'AT5G11770', 'AT4G02580', 'ATMG00650', 'ATMG00270', 'ATMG00665', 'AT5G37510', 'AT1G16700', 'ATMG00510' 0.025 -0.020 Frequency 0.015 -0.010 0.005 0.000 20 30 40 50 60 Flux

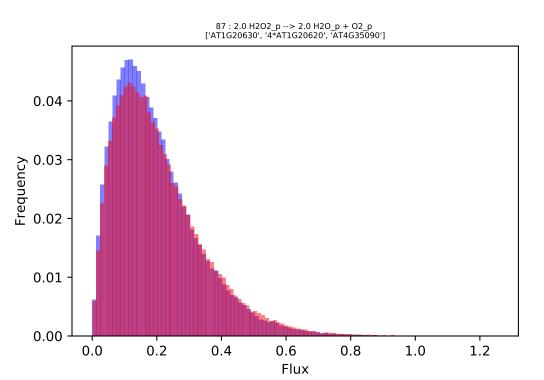


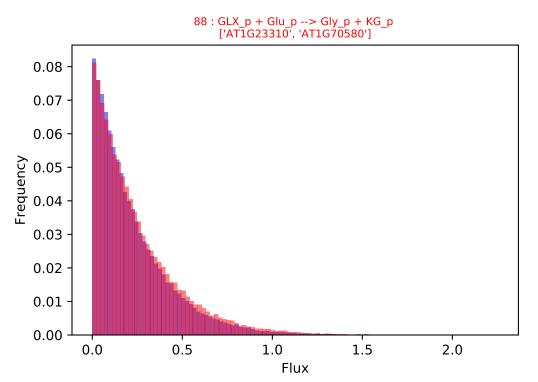
84 : O2_h + RuBP_h --> 2.0 H_h + PGA_h + PGCA_h ['AT1G67090', 'AT5G38410', '8*ATCG00490', '8*AT5G38430', 'AT5G38420']





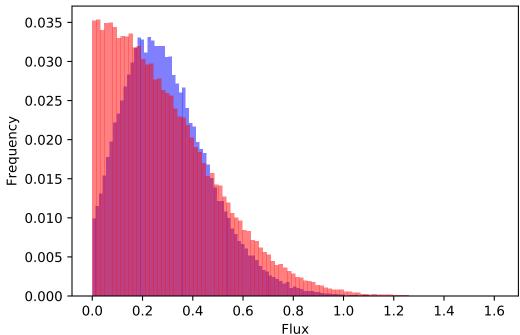




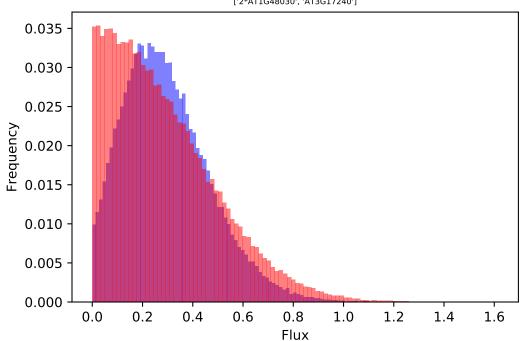


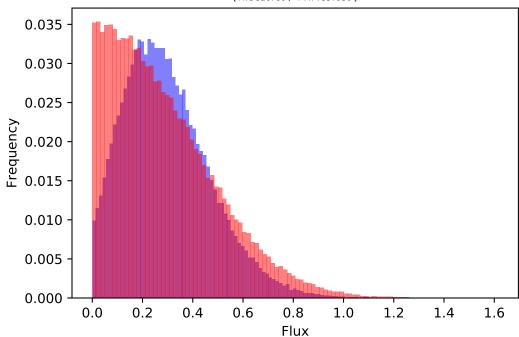
89 : $Gly_m + H_m + LPL_m --> CO2_m + amDHP_m$ ['2*AT4G33010', 'AT2G26080'] 0.035 0.030 -0.025 Frequency - 020.0 - 10.05 0.010 0.005 0.000 0.2 0.4 0.6 1.2 1.6 0.0 8.0 1.0 1.4

Flux

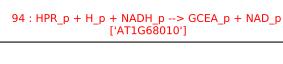


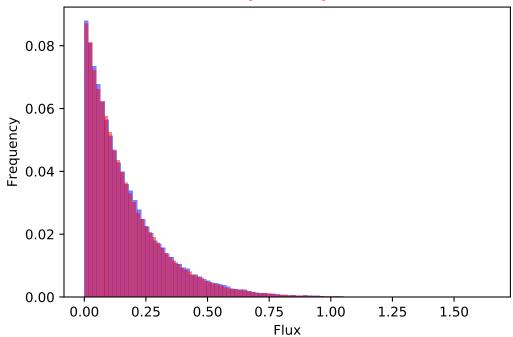
91 : DHP_m + NAD_m --> H_m + LPL_m + NADH_m ['2*AT1G48030', 'AT3G17240']

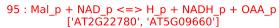


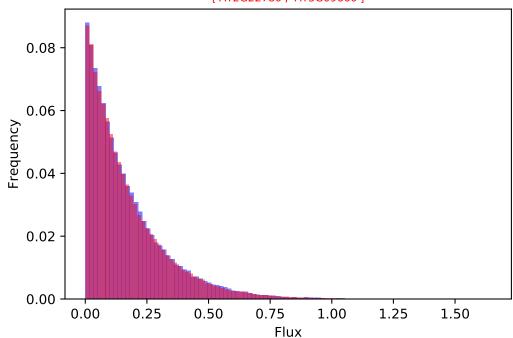


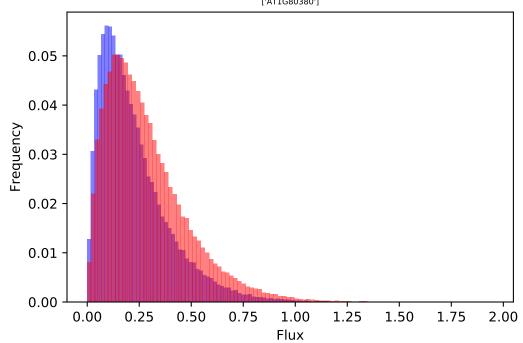
93 : $GLX_p + Ser_p --> Gly_p + HPR_p$ ['2*AT2G13360'] 0.08 0.06 -Frequency - 40.0 0.02 0.00 1.25 1.50 0.00 0.25 0.50 0.75 1.00 Flux

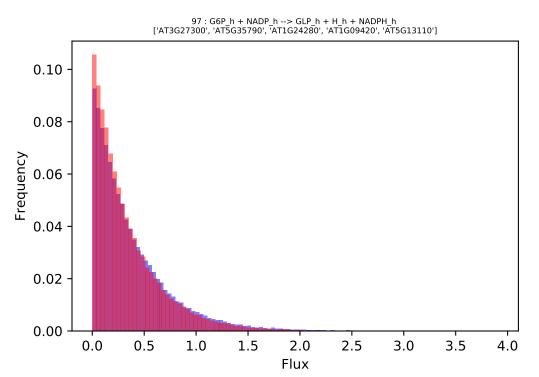


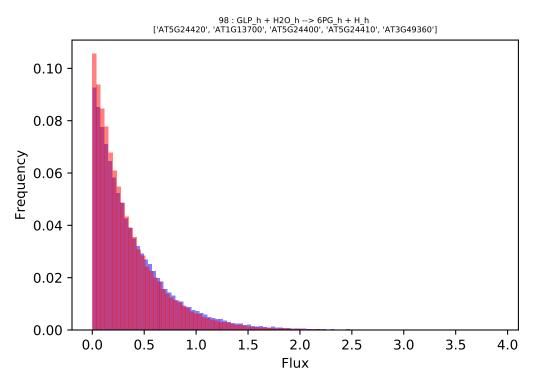


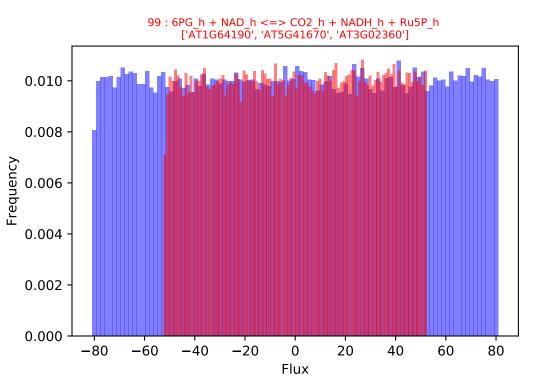


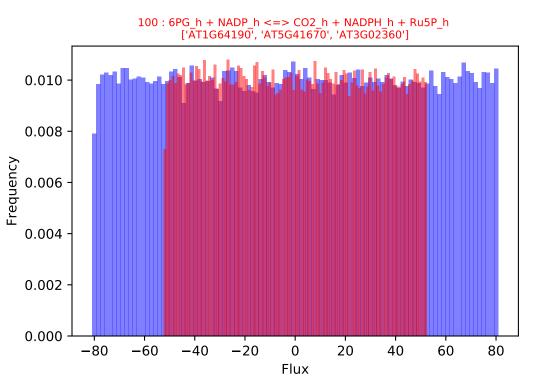


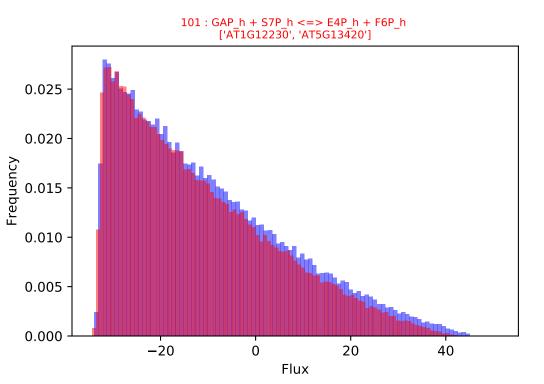


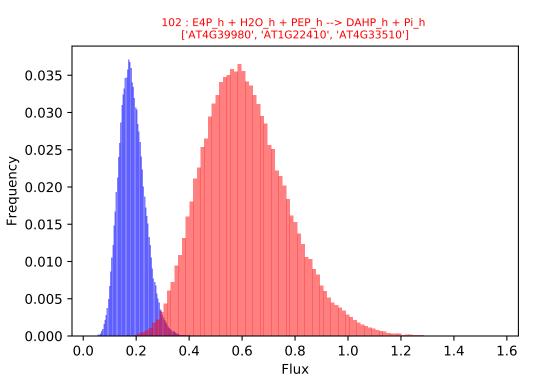


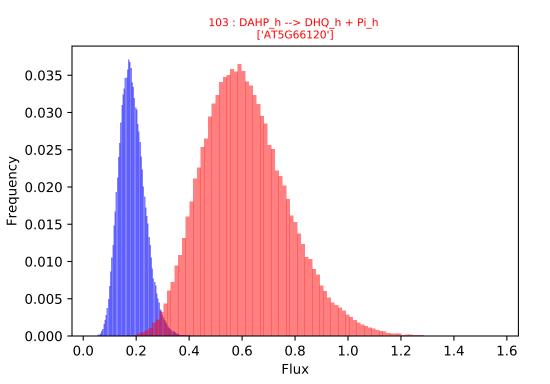


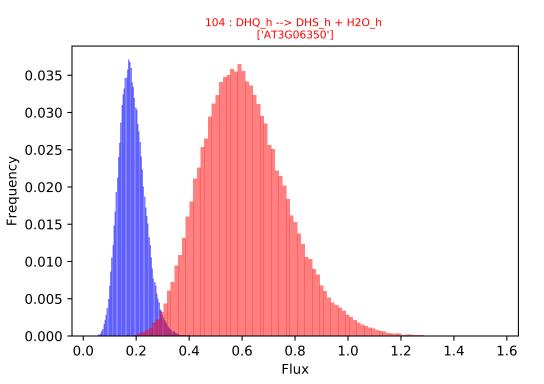


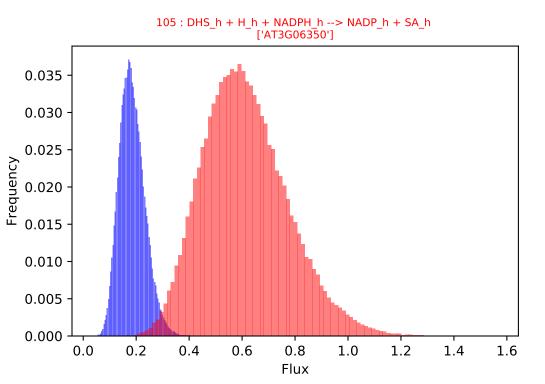


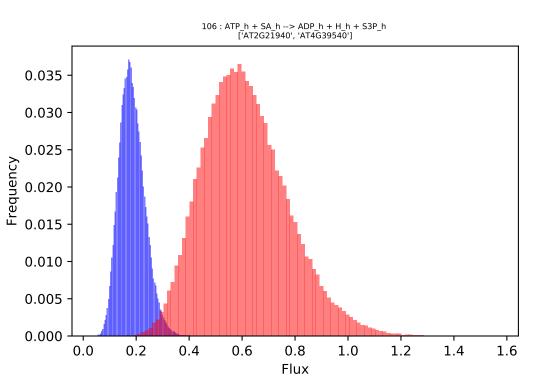


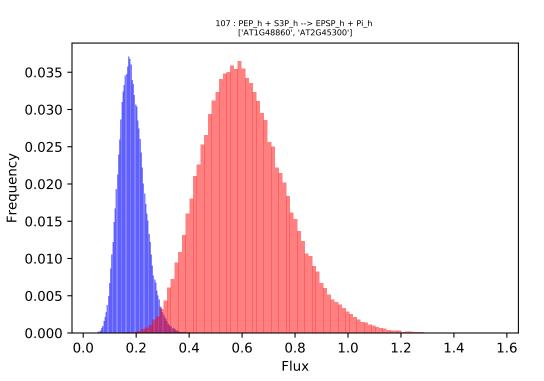


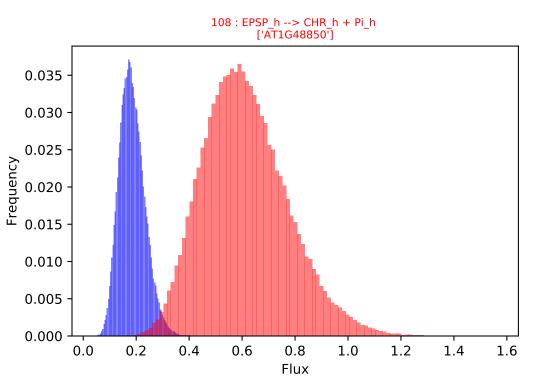


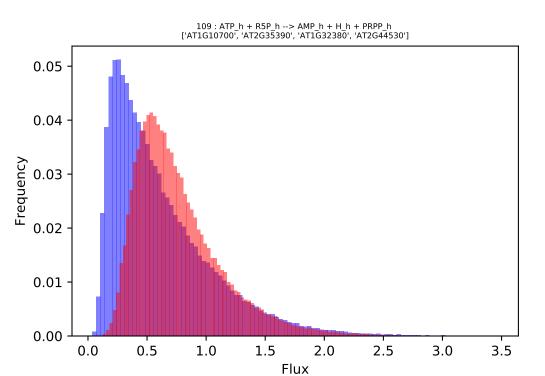




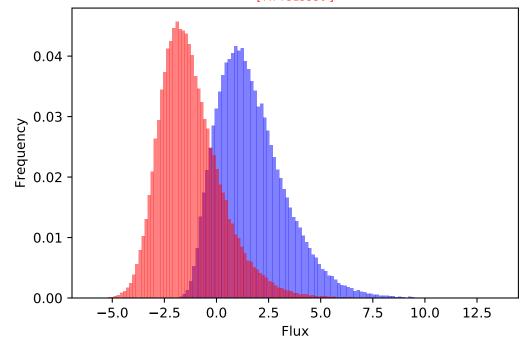


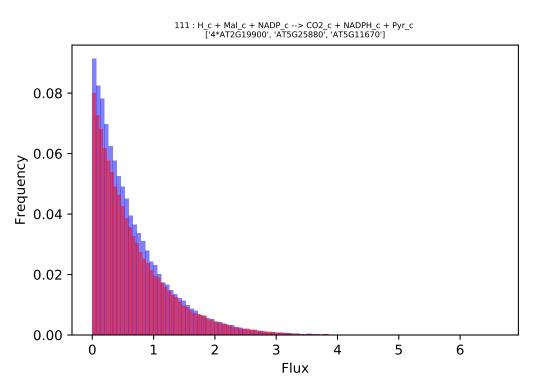


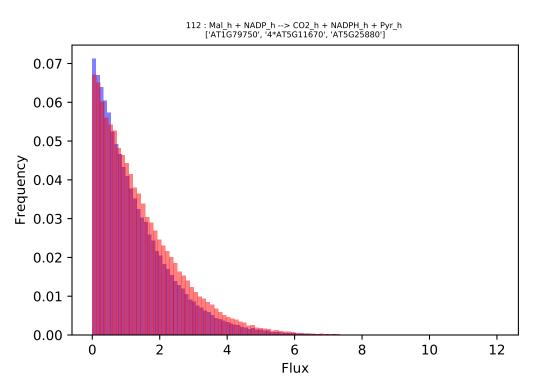


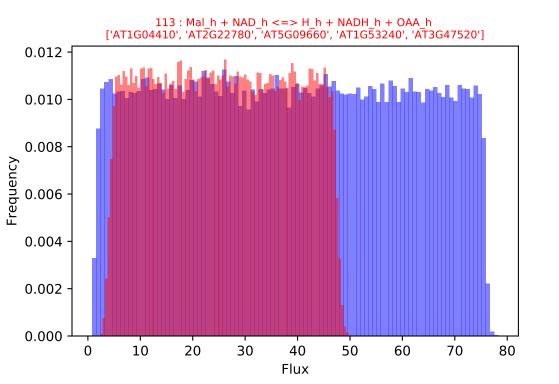


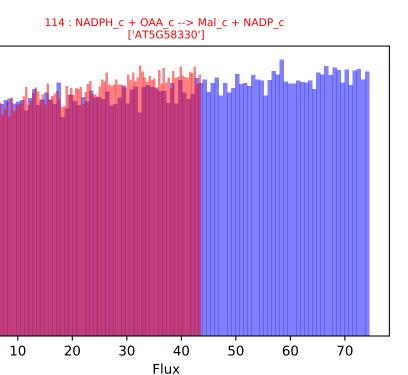
 $110: ATP_h + Pi_h + Pyr_h <=> AMP_h + 2.0 H_h + PEP_h + PPi_h \\ ['AT4G15530']$











0.010

0.008

0.006 -

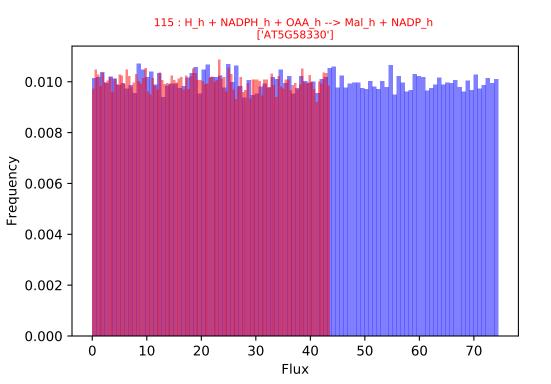
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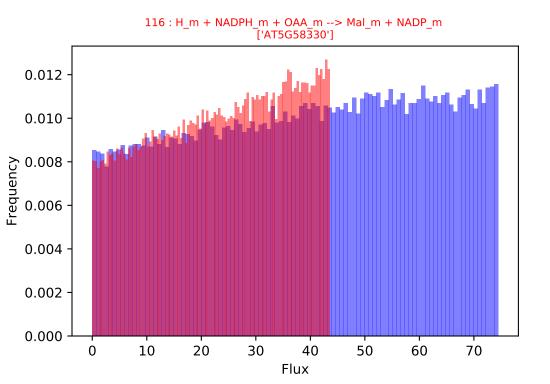
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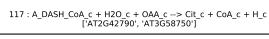
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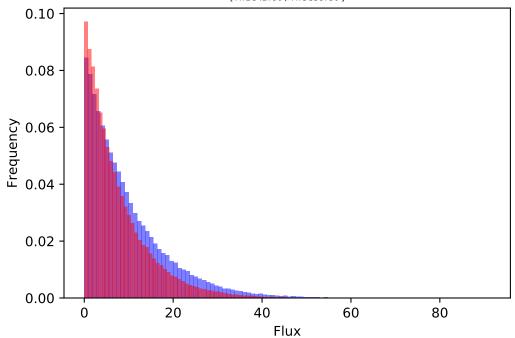
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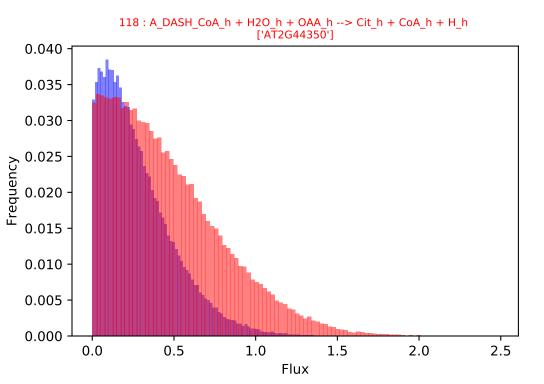
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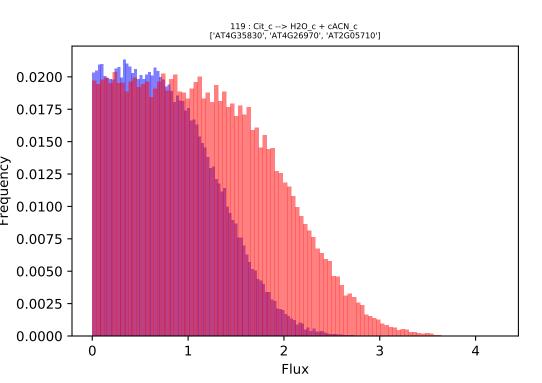


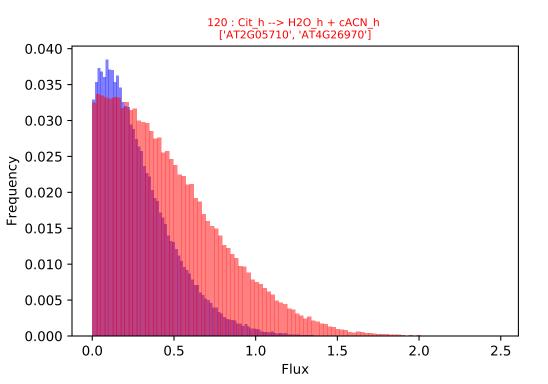


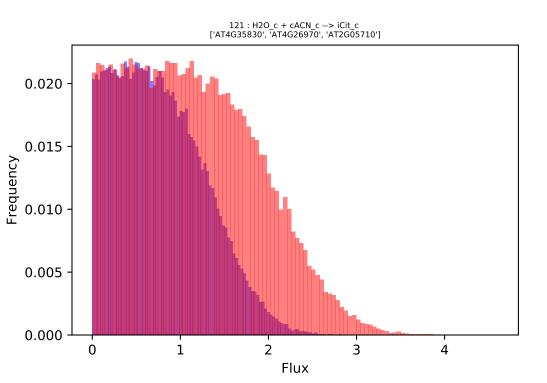


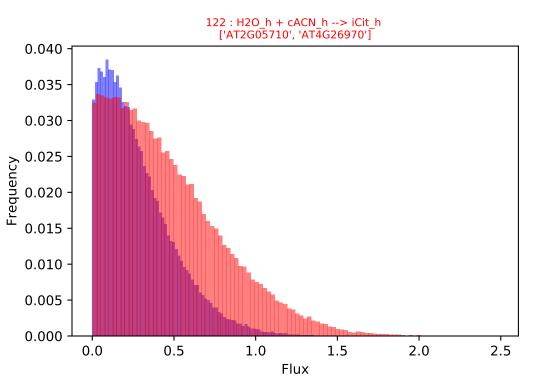


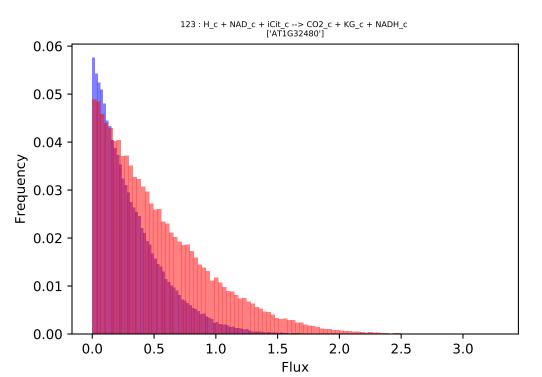


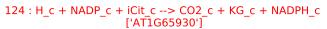


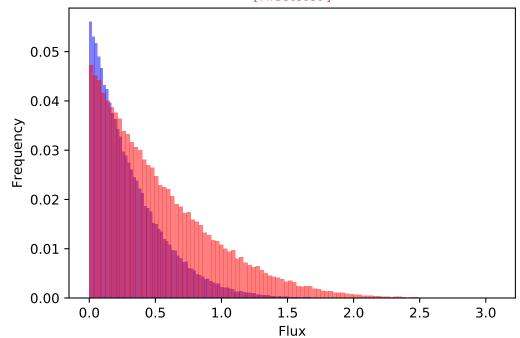


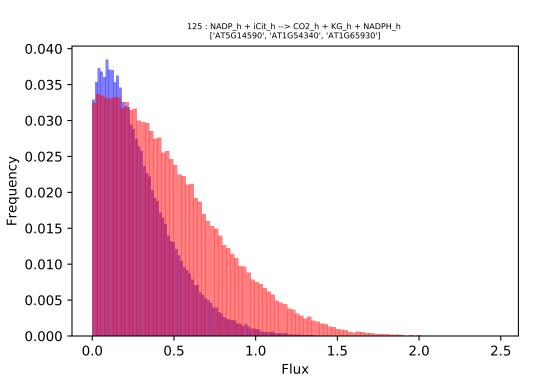




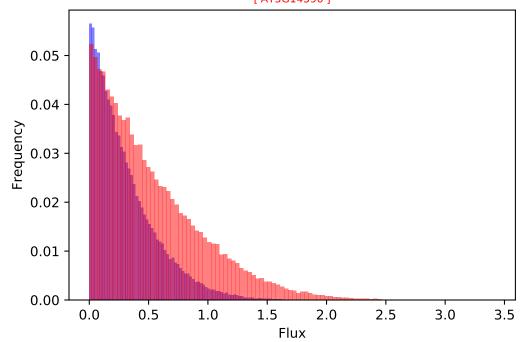


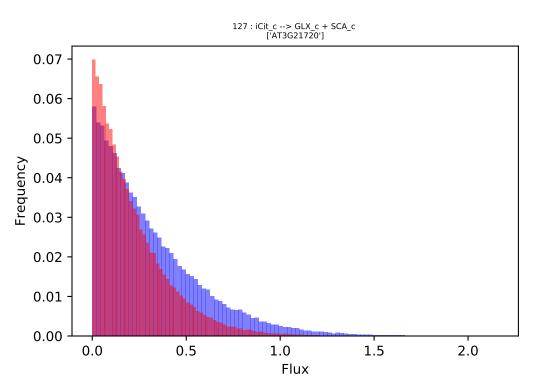


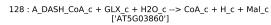


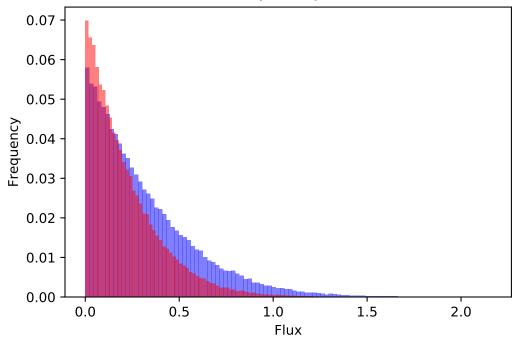


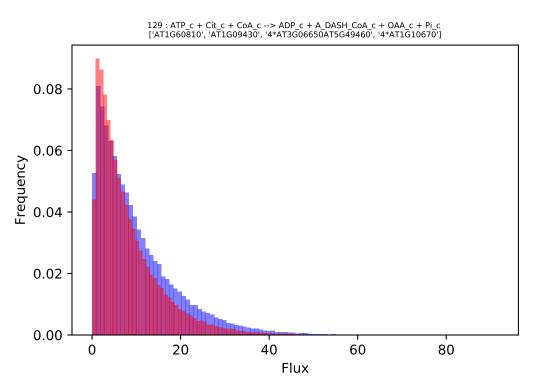
 $\begin{array}{c} 126: \mathsf{NADP_m} + \mathsf{iCit_m} --> \mathsf{CO2_m} + \mathsf{KG_m} + \mathsf{NADPH_m} \\ \qquad \qquad \qquad [\mathsf{'AT5G14590'}] \end{array}$



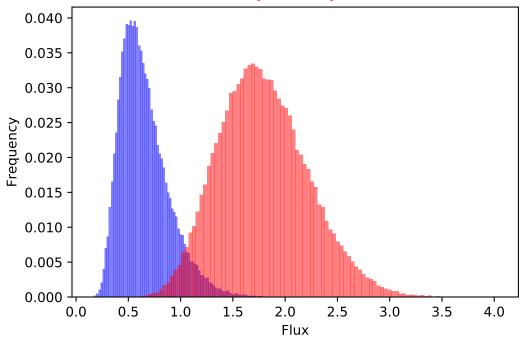




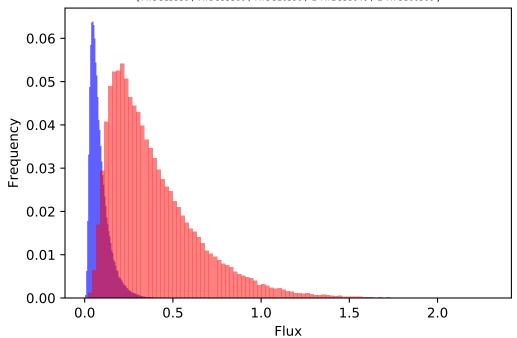




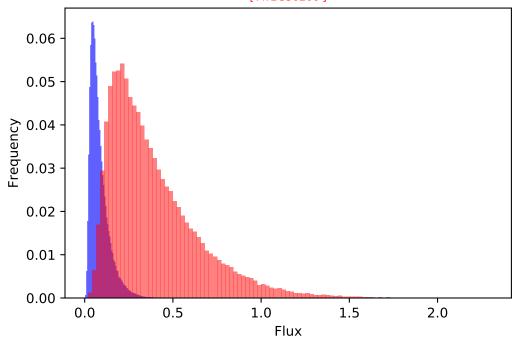
 $130 : AC_h + ATP_h + CoA_h --> AMP_h + A_DASH_CoA_h + H_h + PPi_h$ ['AT5G36880']

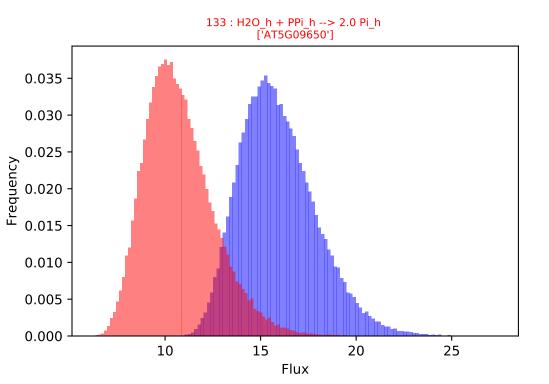


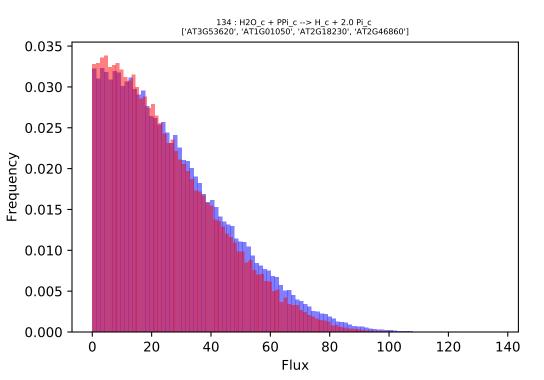
131 : ATP_h + A_DASH_CoA_h + HCO3_h --> ADP_h + H_h + M_DASH_CoA_h + Pi_h ['AT5G15530', 'AT5G35360', 'AT5G16390', '2*AT2G38040', '2*ATCG00500']

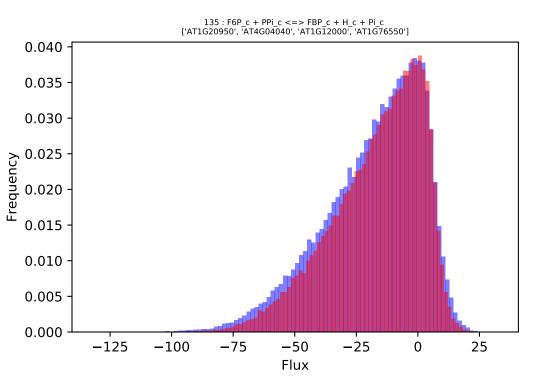


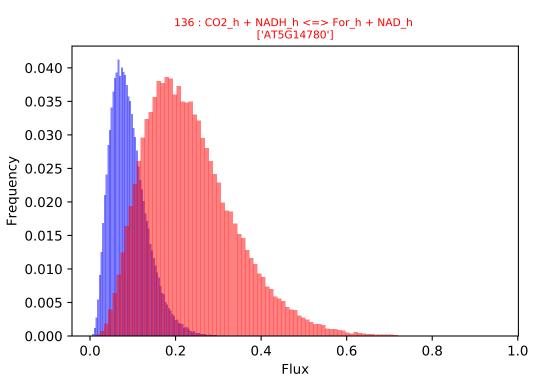


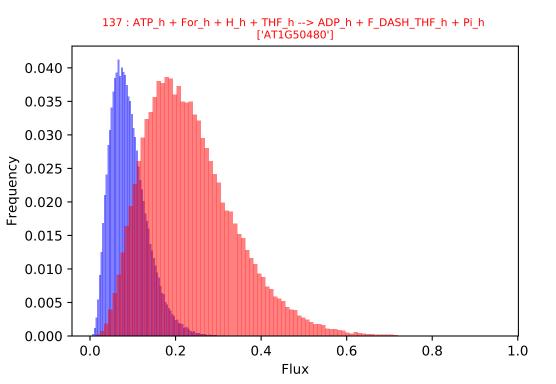


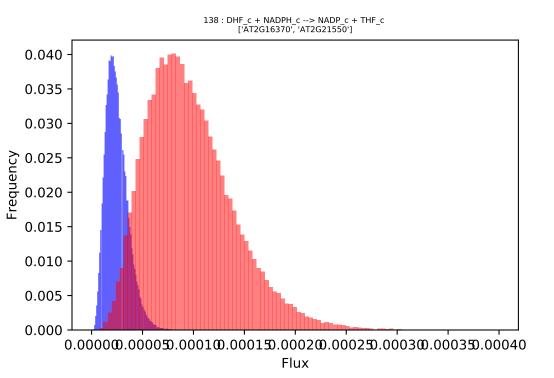




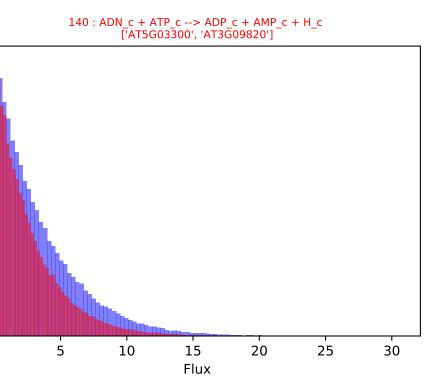








139 : NADPH_c + TRXox_c --> NADP_c + TRXrd_c ['AT2G41680', '2*AT4G35460', 'AT2G17420'] 0.040 0.035 -0.030 -0.025 -Frequency 0.020 -0.015 -0.010 -0.005 -0.000 0.0000 0.0002 0.0004 0.0006 0.0008 0.0010 0.0012 Flux



0.08

0.07 -

0.06 -

Frequency - 50.0

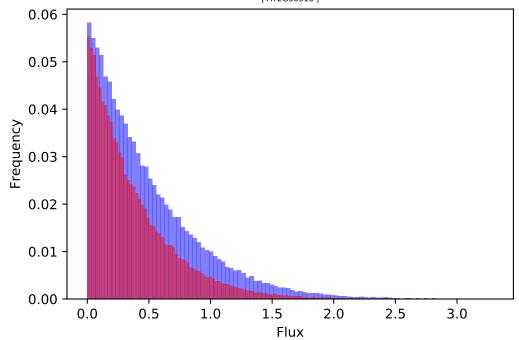
0.03 -

0.02

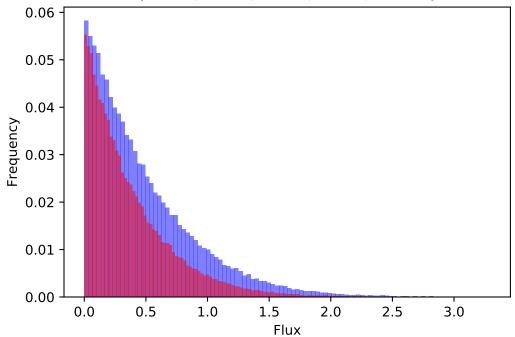
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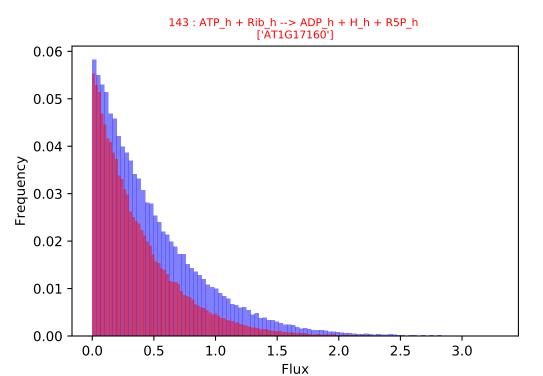
0.00

141 : ADN_c + H2O_c --> AD_c + H_c + Rib_c ['AT2G36310']

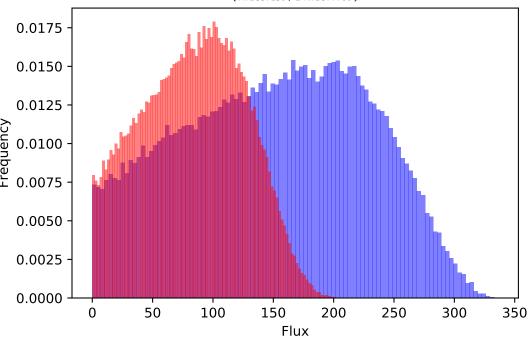


142 : AD_c + PRPP_c --> AMP_c + PPi_c ['AT4G22570', 'AT1G80050', 'AT5G11160', 'AT1G27450', '2*AT4G12440']

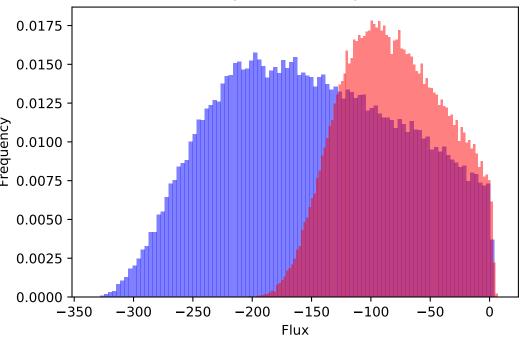


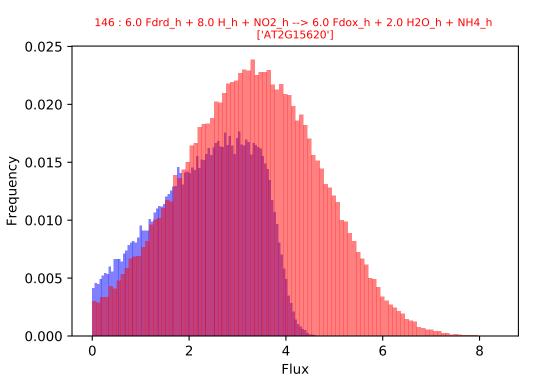


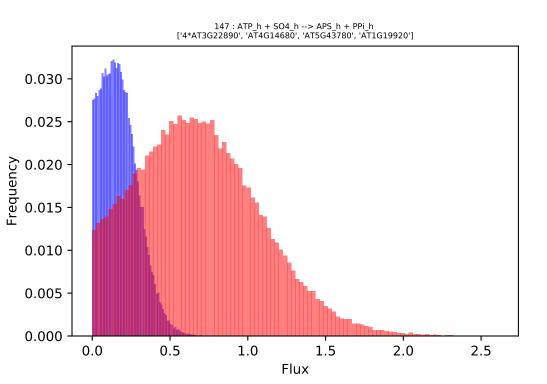
144 : NADH_c + NO3_c --> H2O_c + NAD_c + NO2_c ['AT1G37130', '2*AT1G77760']



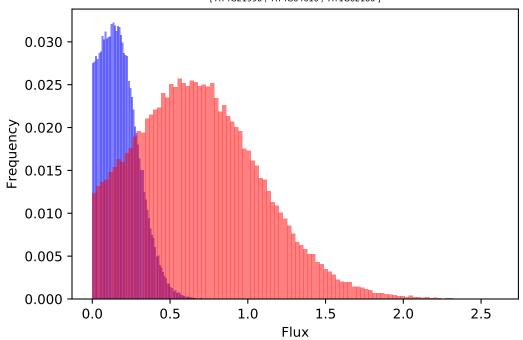
145 : NADPH_c + NO3_c <=> H2O_c + NADP_c + NO2_c ['AT1G37130', '2*AT1G77760']

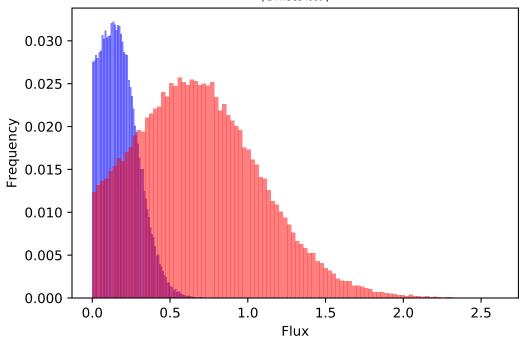


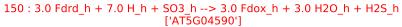


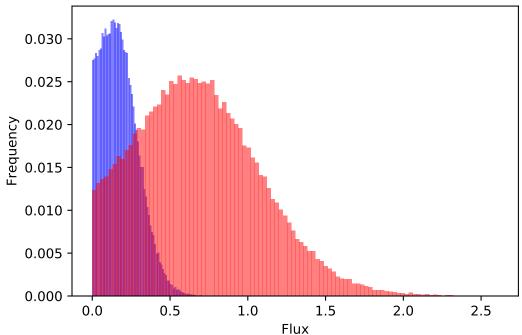


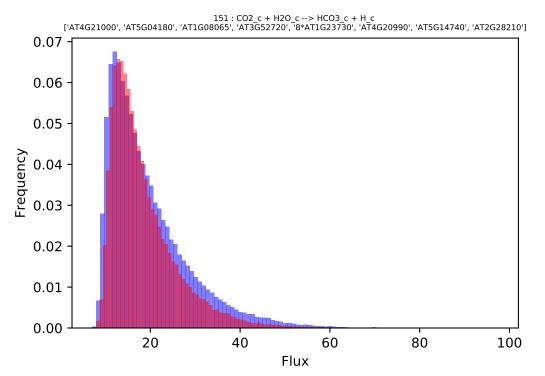
 $148: APS_h + 2.0 \; GSH_h --> AMP_h + GSSG_h + H_h + SO3_h \\ ['AT4G21990', 'AT4G04\bar{e}10', 'AT1G62180']$



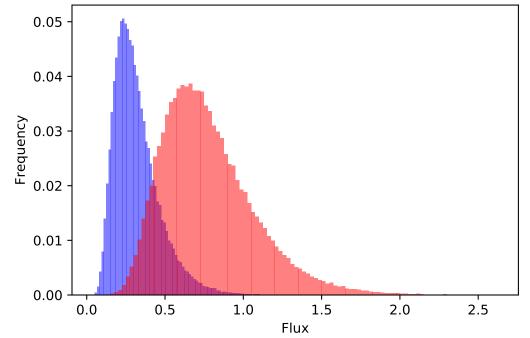


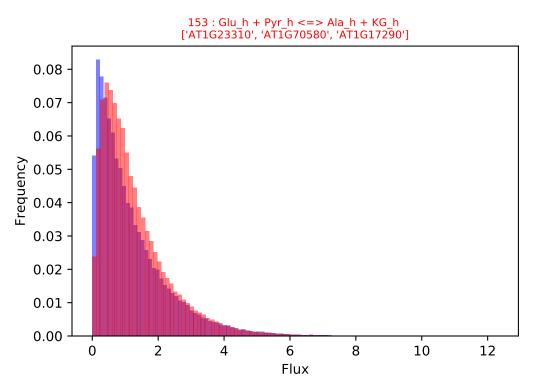


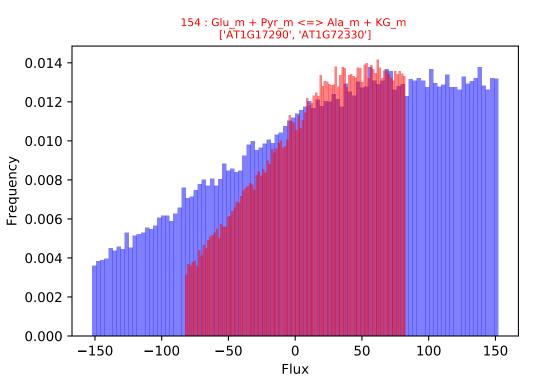




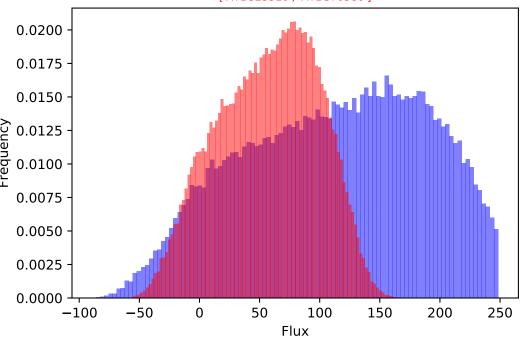
 $152: CO2\ h + H2O_h --> HCO3\ h + H_h \\ ['AT1G70410', 'AT1G58180', 'AT3G01500', 'AT3G52720', 'AT4G33580', 'AT1G08080', 'AT4G20990', 'AT5G14740', '8*AT1G23730']$



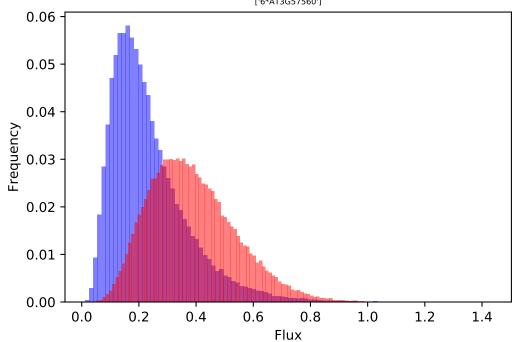




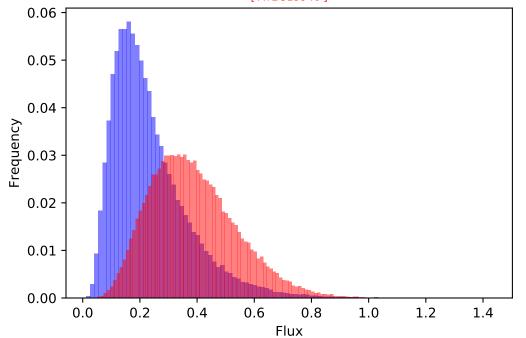
155 : Glu_p + Pyr_p <=> Ala_p + KG_p ['AT1G23310', 'AT1G70580']



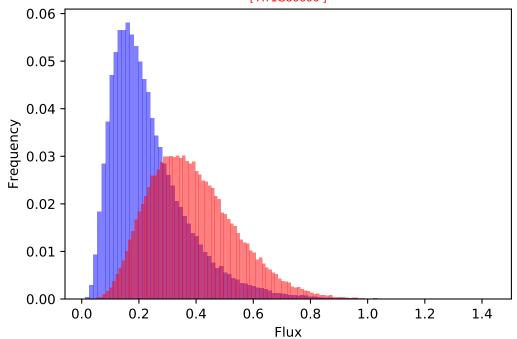
156 : ATP_h + A_DASH_Glu_h --> ADP_h + A_DASH_GluP_h ['6*AT3G57560']



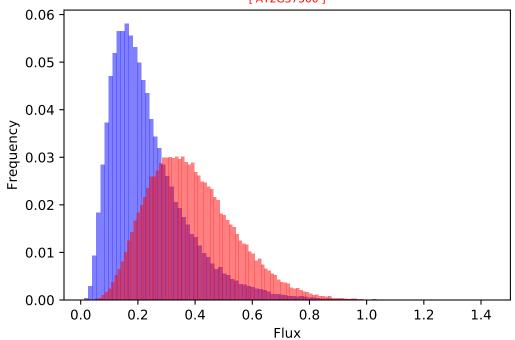
157 : A_DASH_GluP_h + H_h + NADPH_h --> A_DASH_Glu_DASH_SeA_h + NADP_h + Pi_h ['AT2G19940']



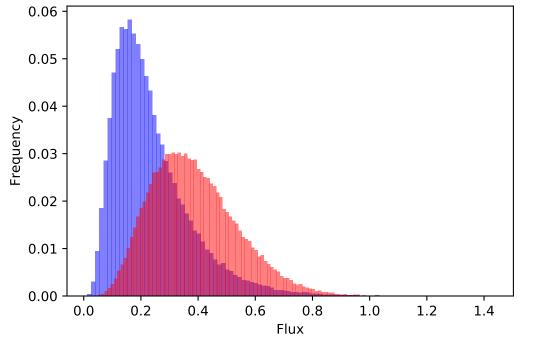
158 : A_DASH_Glu_DASH_SeA_h + Glu_h --> A_DASH_Orn_h + KG_h ['AT1G80600']

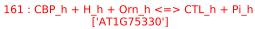


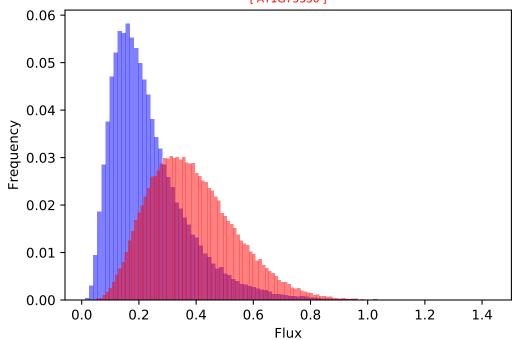
159 : A_DASH_Orn_h + Glu_h --> A_DASH_Glu_h + Orn_h ['AT2G37500']



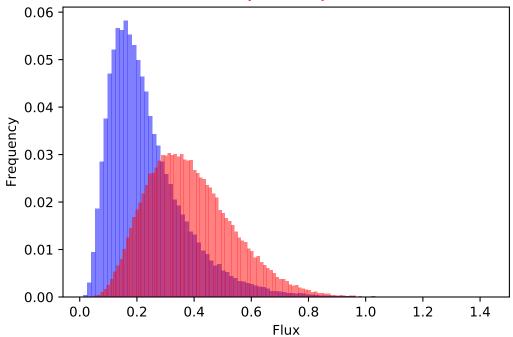
 $160: 2.0 \; ATP_h + Gln_h + H2O_h + HCO3_h --> 2.0 \; ADP_h + CBP_h + Glu_h + 3.0 \; H_h + Pi_h \\ ['AT3G27740', 'AT1G29900']$



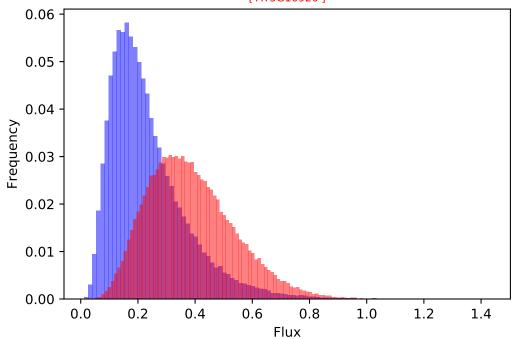


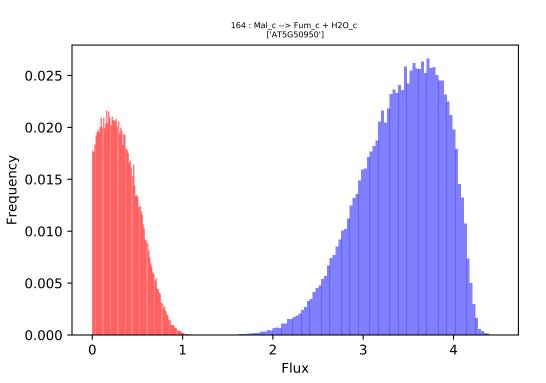


162 : ATP_h + Asp_h + CTL_h --> AMP_h + Arg_DASH_SCA_h + 3.0 H_h + PPi_h ['AT4G24830']

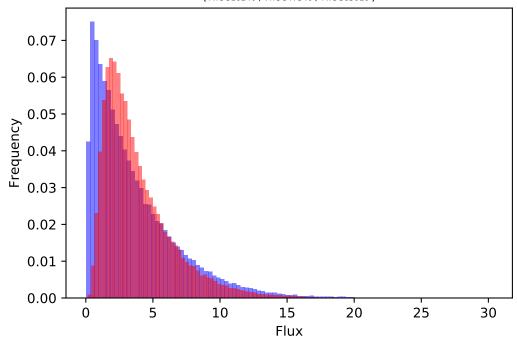


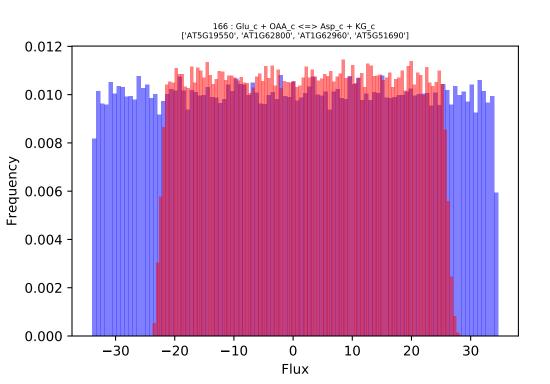
163 : Arg_DASH_SCA_h --> Arg_h + Fum_h ['AT5G10920']

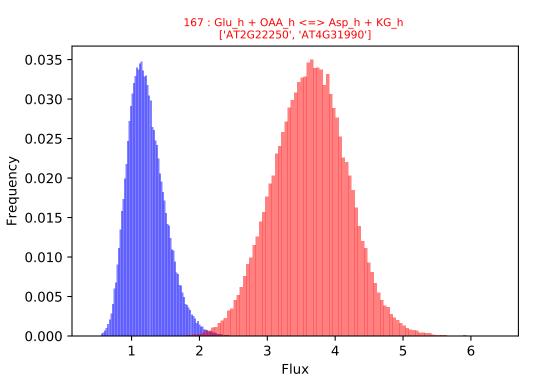


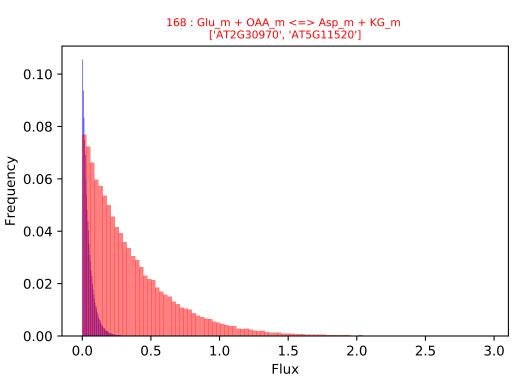


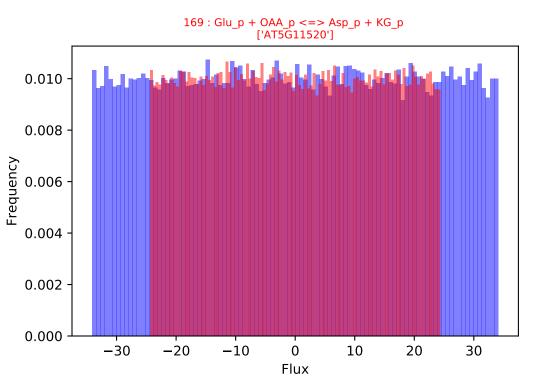
165 : ATP_c + Asp_c + Gln_c + H2O_c --> AMP_c + Asn_c + Glu_c + H_c + PPi_c ['AT5G10240', 'AT3G47340', 'AT5G65010']

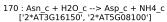


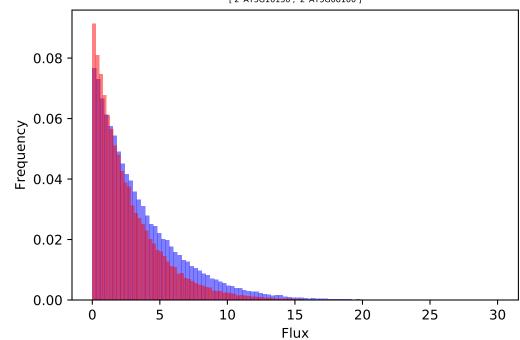


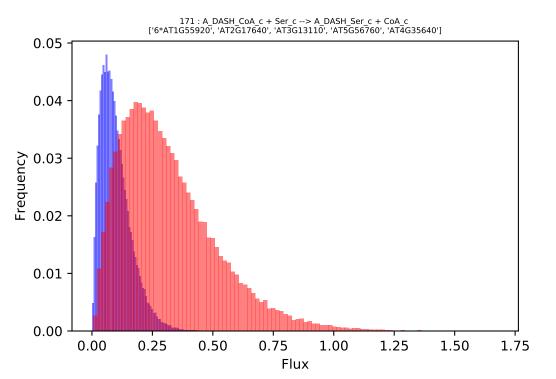




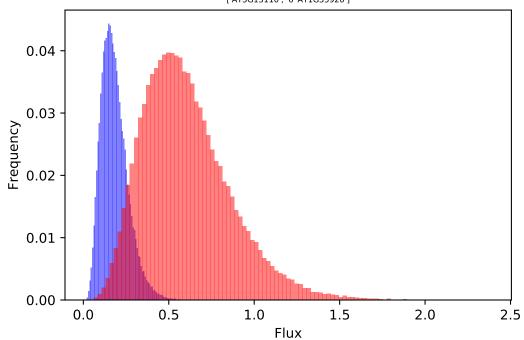




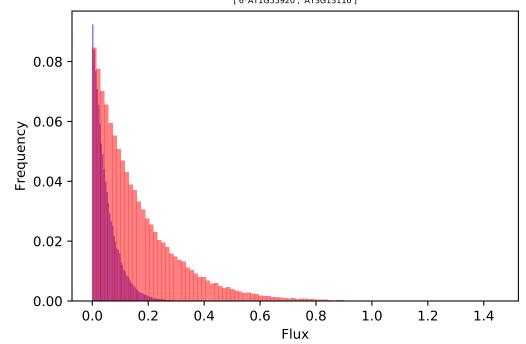




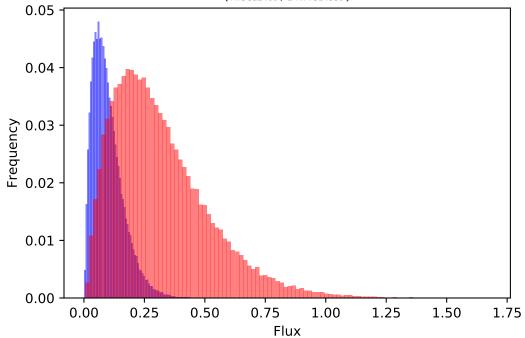
172 : A_DASH_CoA_h + Ser_h --> A_DASH_Ser_h + CoA_h ['AT3G13110', '6*AT1G55920']

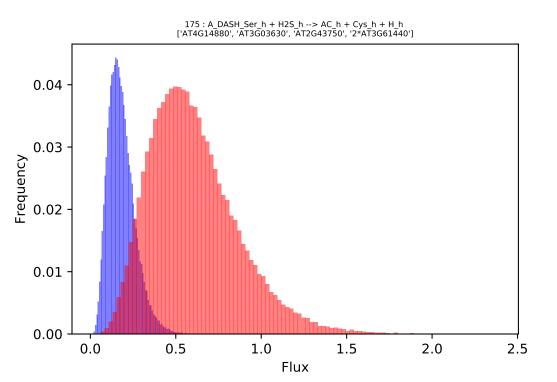


 $173: A_DASH_CoA_m + Ser_m --> A_DASH_Ser_m + CoA_m \\ ['6*AT1G55920', 'AT3G13110']$

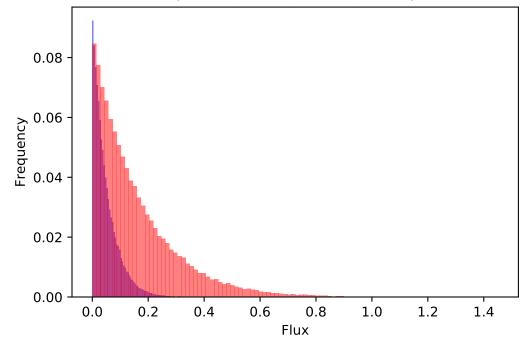


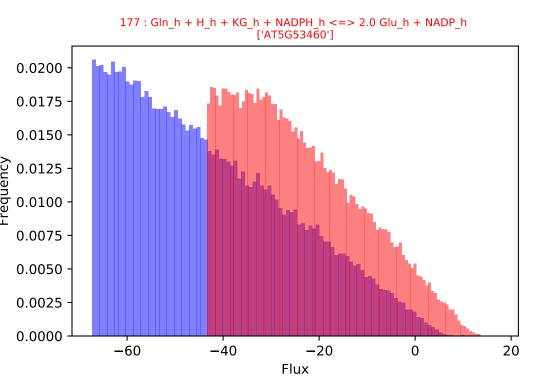
174 : A_DASH_Ser_c + H2S_c --> AC_c + Cys_c + H_c ['AT3G22460', '2*AT4G14880']





176 : A_DASH_Ser_m + H2S_m --> AC_m + Cys_m + H_m ['AT5G28020', 'AT2G43750', '2*AT3G61440', 'AT3G03630']





0.0200

0.0175 -

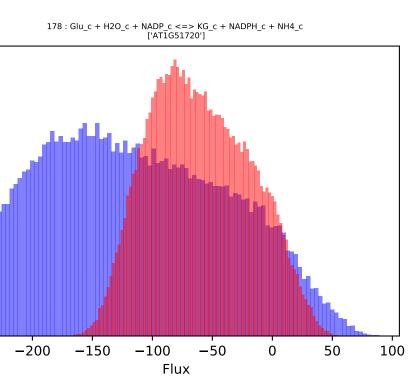
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0.0075 -

0.0050 -

0.0025 -

0.0000



0.0200

0.0175 -

0.0150 -

- 0.0125 -0.0100 -

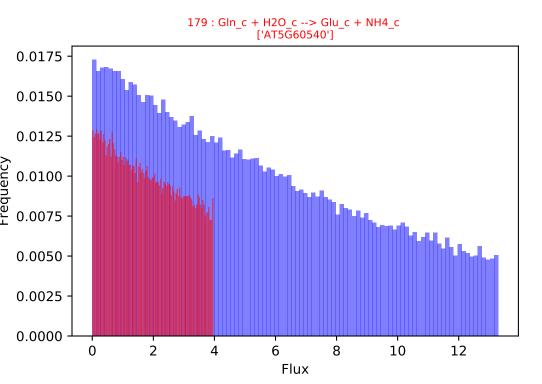
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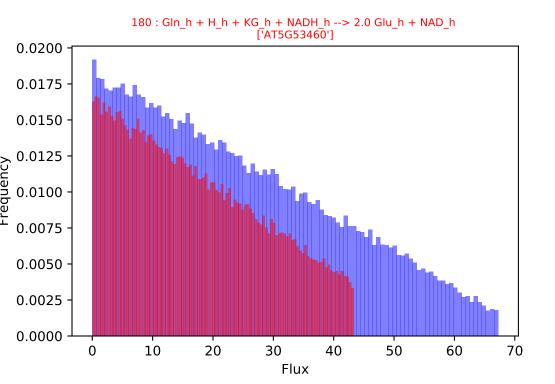
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0.0025

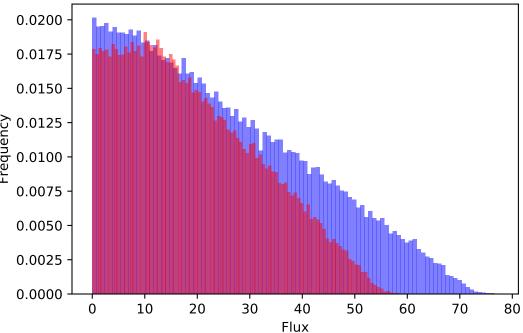
0.0000

-250





 $181: 2.0 \; Fdrd_h \; + \; Gln_h \; + \; 2.0 \; H_h \; + \; KG_h \; --> \; 2.0 \; Fdox_h \; + \; 2.0 \; Glu_h \\ ['AT5G04140', 'AT2G41220']$



 $182: H_m + KG_m + NADH_m + NH4_m --> Glu_m + H2O_m + NAD_m \\ ['AT5G07440', '6*AT5G18170', 'AT3G03910']$

600

800

1000

0.012

0.010

0.008

0.006

0.004

0.002

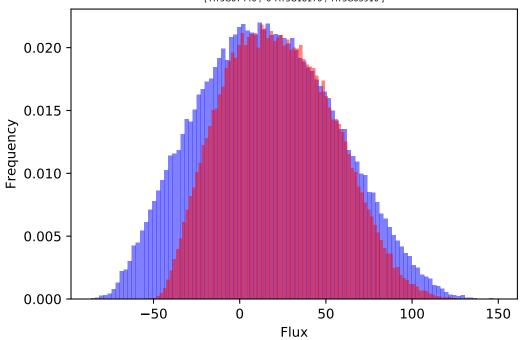
0.000

200

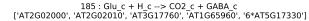
400

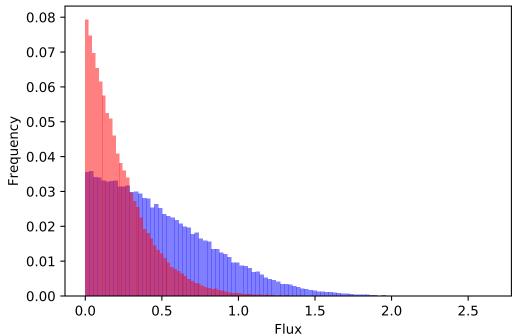
Flux

Frequency



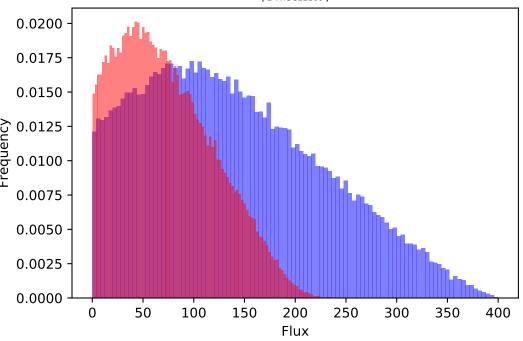
Flux

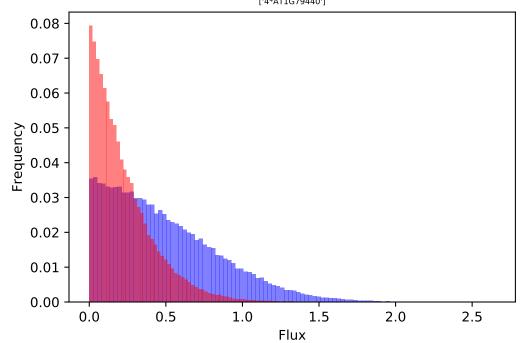




 $186: GABA_m + Pyr_m <=> Ala_m + SCA_DASH_SeA_m \\ ['2*AT3G22200']$ 0.0200 0.0175 0.0150 - 0.0125 - 0.0100 -0.0075 0.0050 0.0025 -0.0000 -400-350-300 -250-200 -150-100-50Flux

187 : GABA_m + KG_m --> Glu_m + SCA_DASH_SeA_m ['2*AT3G22200']

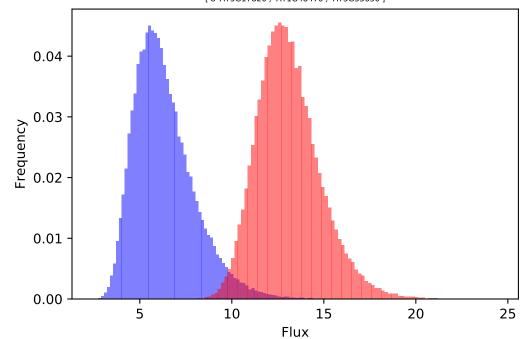


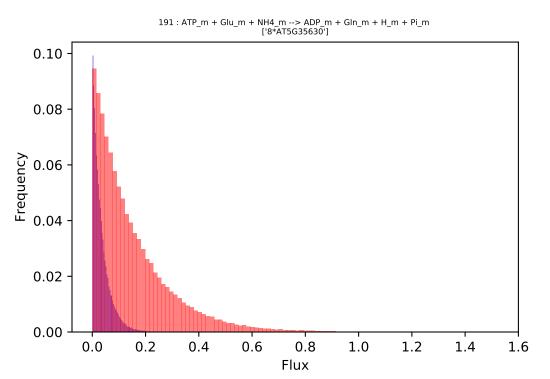


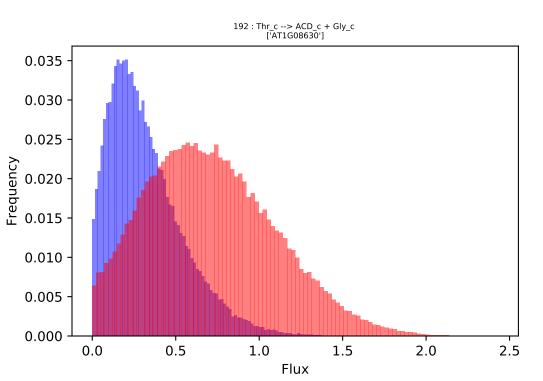
 $189: ATP_c + Glu_c + NH4_c --> ADP_c + Gln_c + H_c + Pi_c \ ['AT3G17820', 'AT1G66200', 'AT5G16570', '8*AT5G37600']$ 0.05 0.04 Frequency 60.0 0.02 0.01 0.00 5 10 20 25 30 35 15

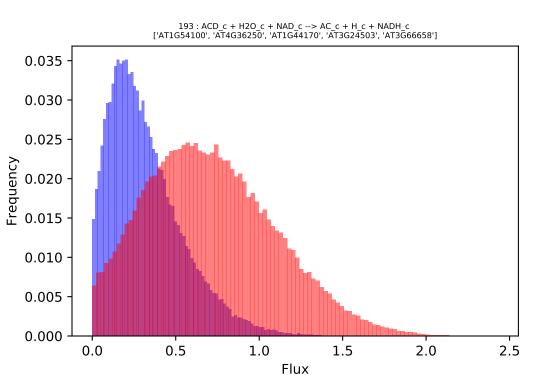
Flux

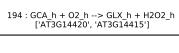
190 : ATP_h + Glu_h + NH4_h --> ADP_h + Gln_h + H_h + Pi_h ['8*AT3G17820', 'AT1G48470', 'AT5G35630']

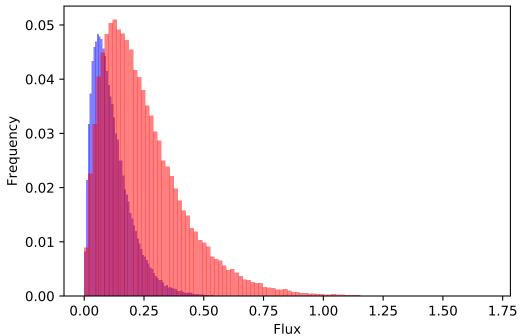


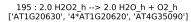


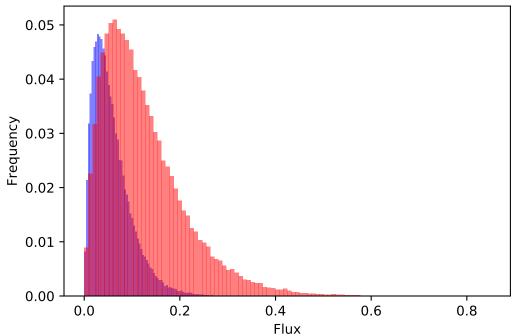


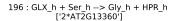


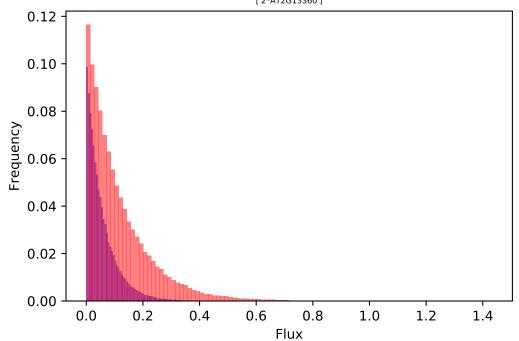




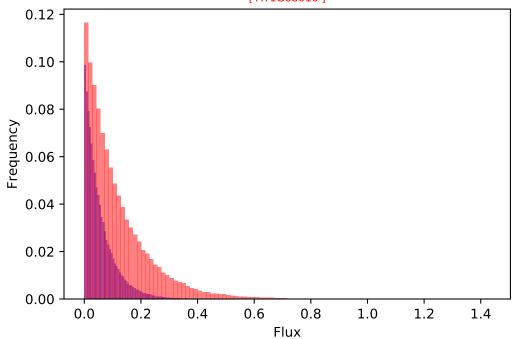


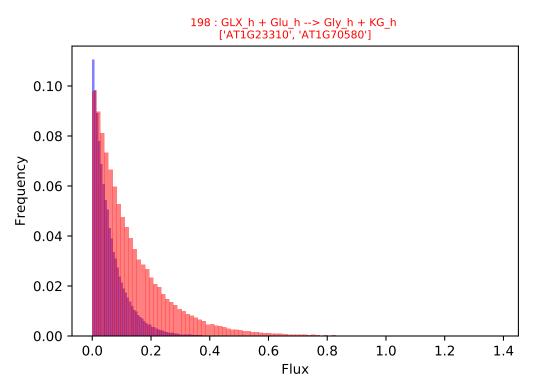


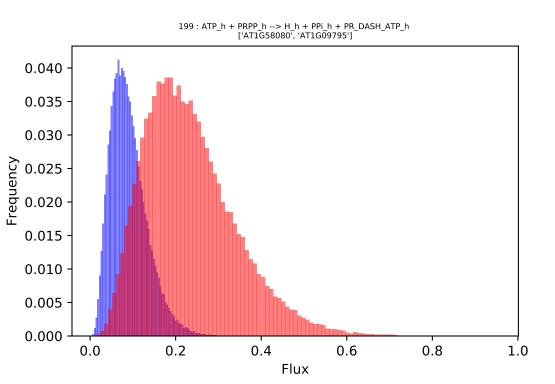


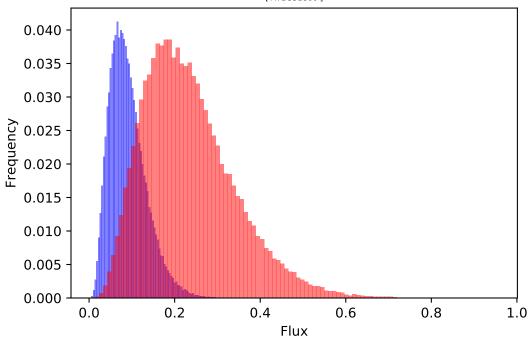


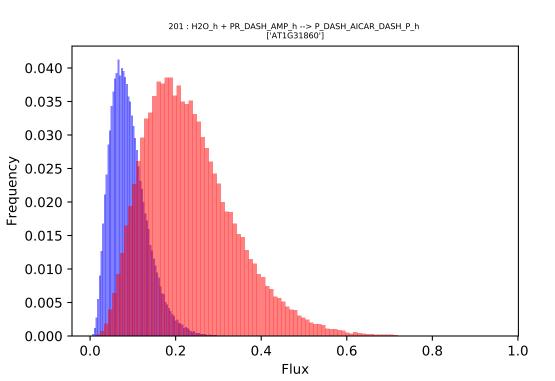


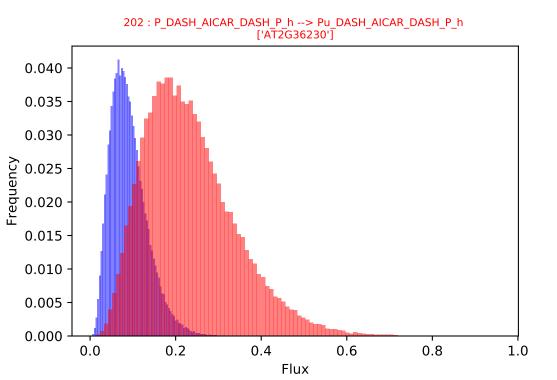


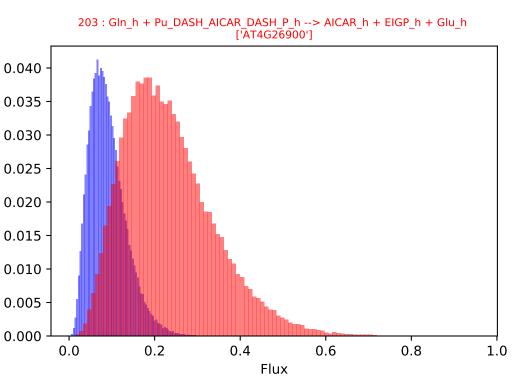




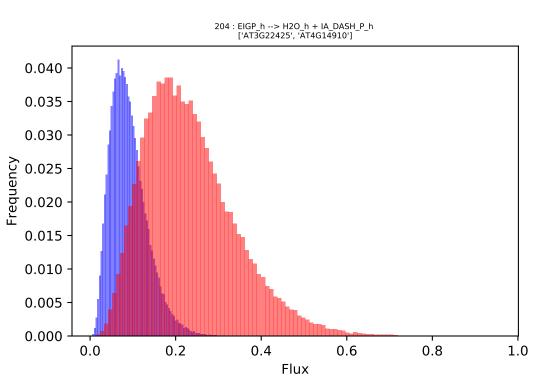


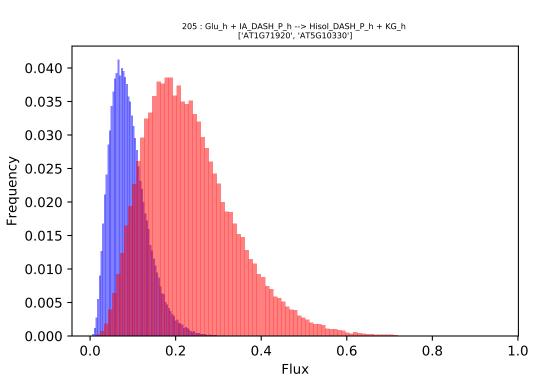


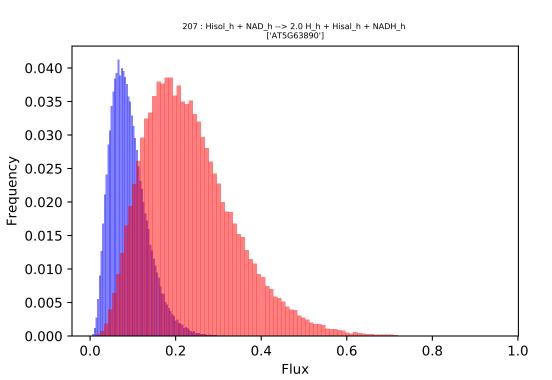


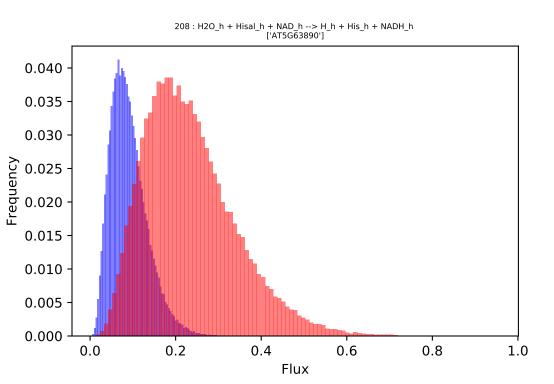


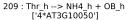
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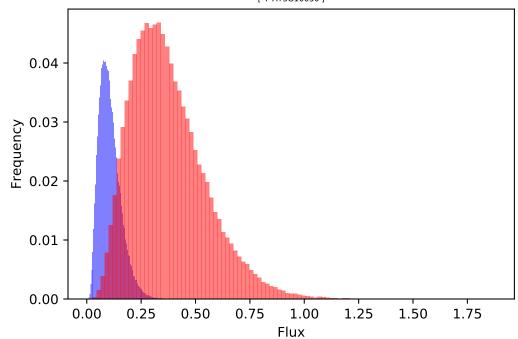


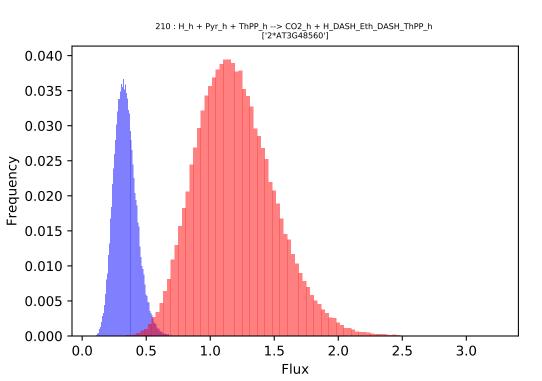




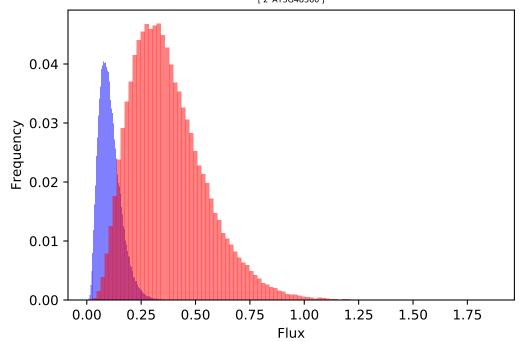




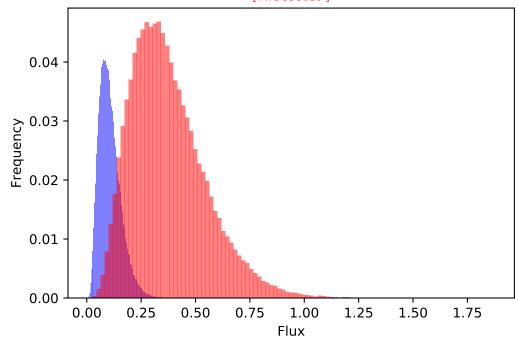




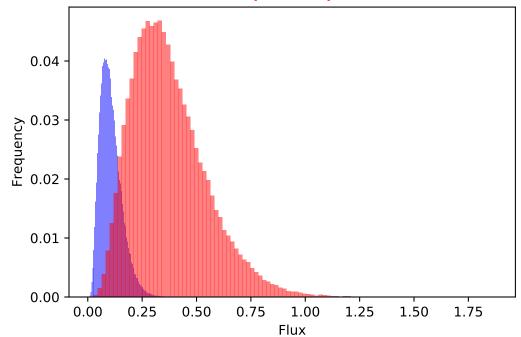
211 : $H_DASH_Eth_DASH_ThPP_h + OB_h --> AHB_h + ThPP_h$ ['2*AT3G48560']



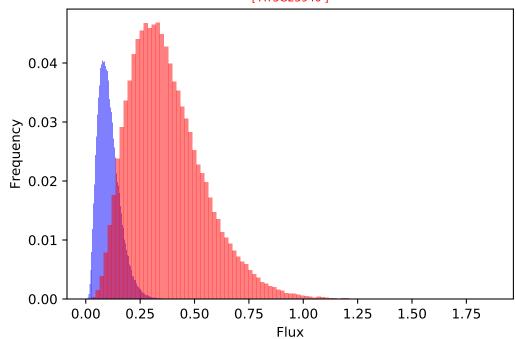
212 : AHB_h <=> HMOP_h ['AT3G58610']

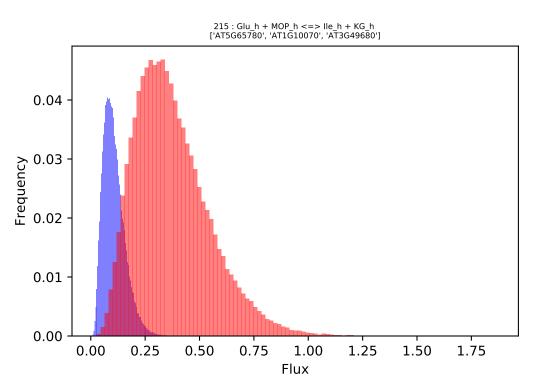


213 : HMOP_h + H_h + NADPH_h --> DHMP_h + NADP_h ['AT3G58610']

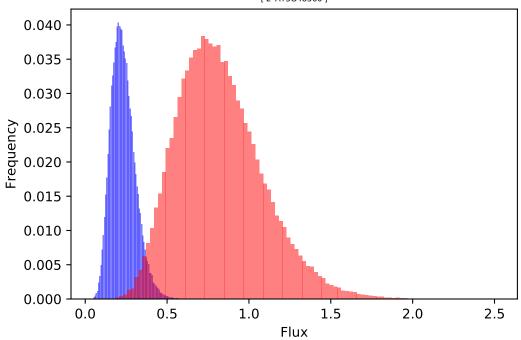


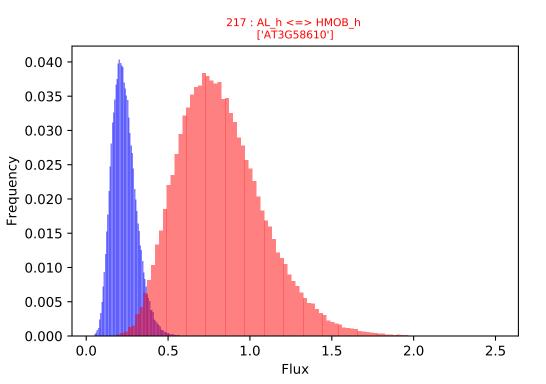
214 : DHMP_h --> H2O_h + MOP_h ['AT3G23940']



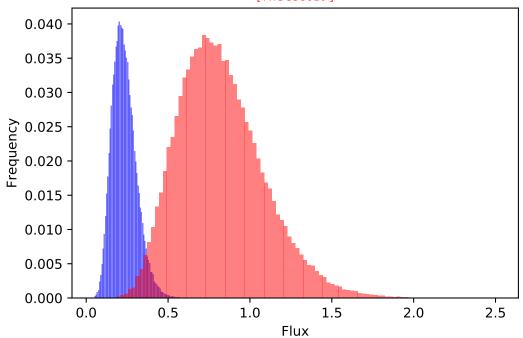


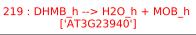
216 : $H_DASH_Eth_DASH_ThPP_h + Pyr_h --> AL_h + ThPP_h$ ['2*AT3G48560']

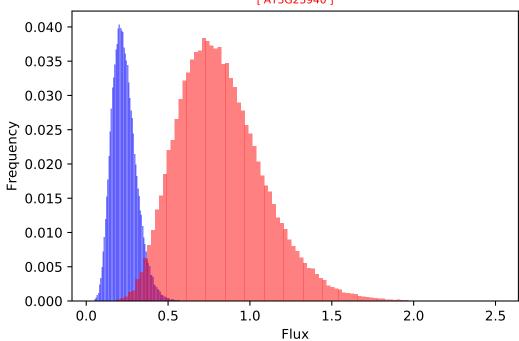


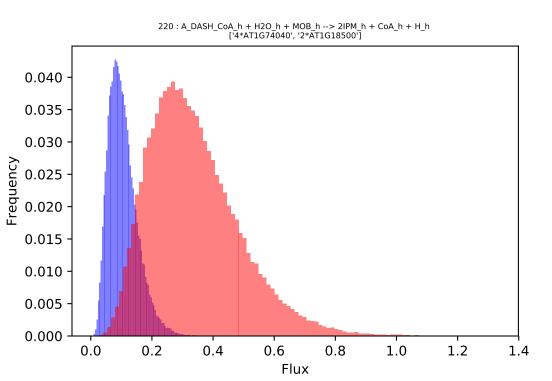


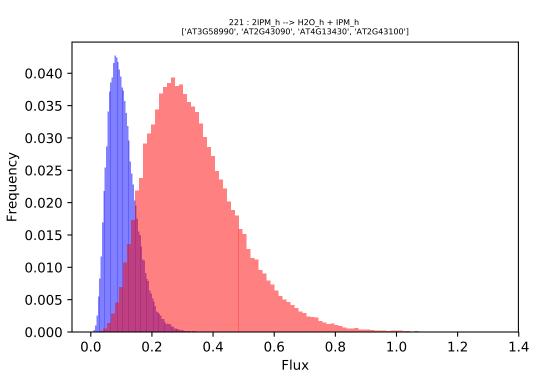
218 : $HMOB_h + H_h + NADPH_h --> DHMB_h + NADP_h$ ['AT3G58610']

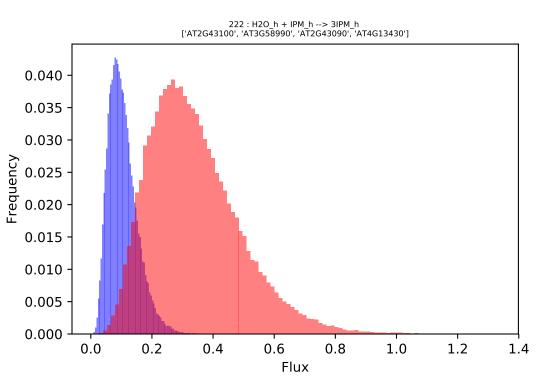


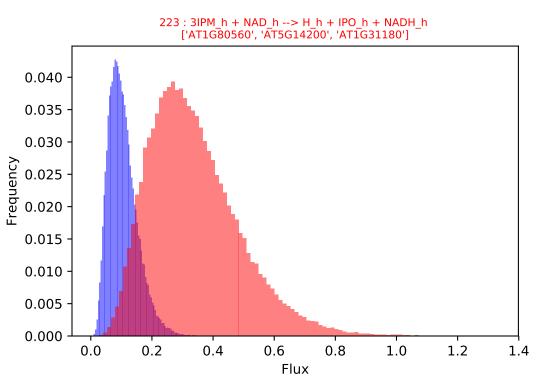


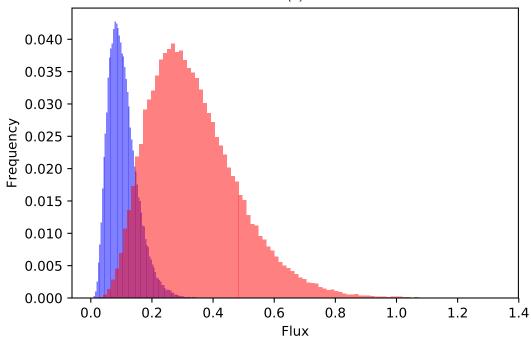


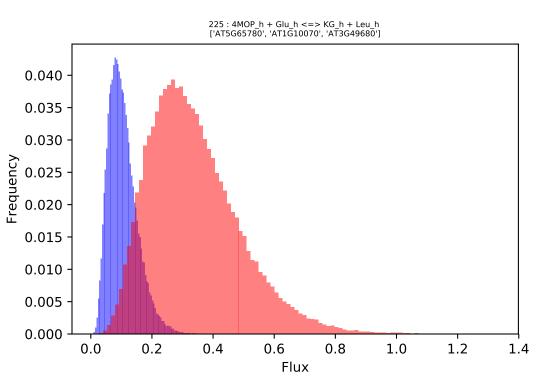


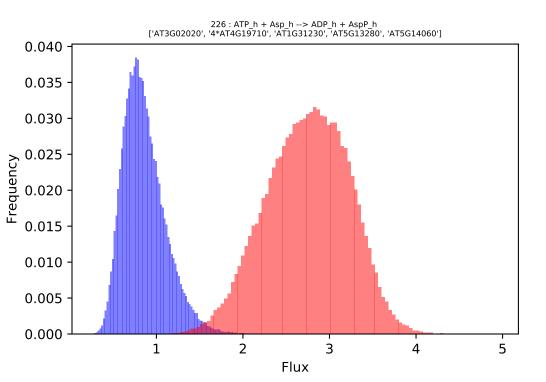


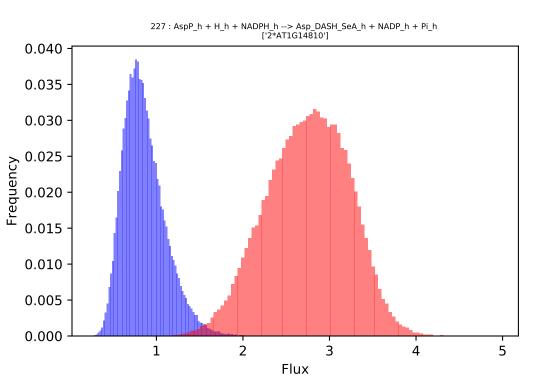


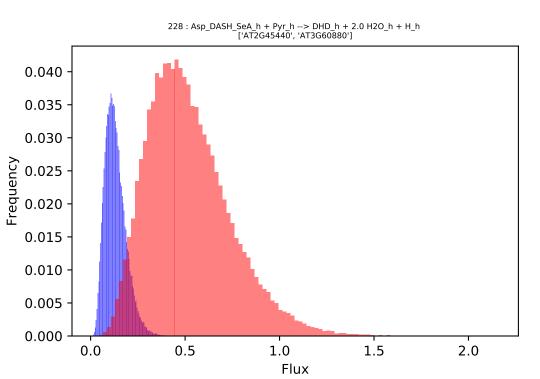


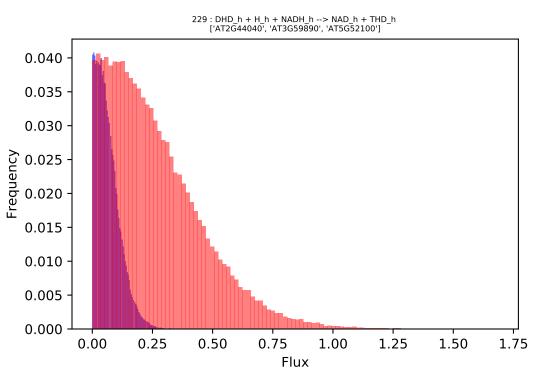




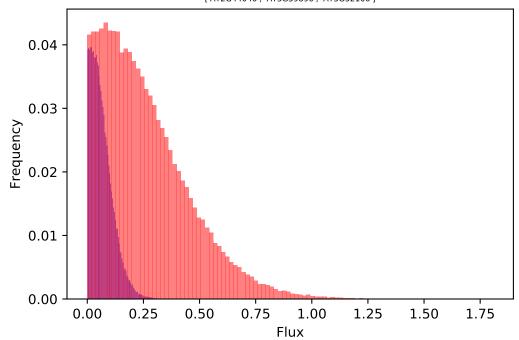


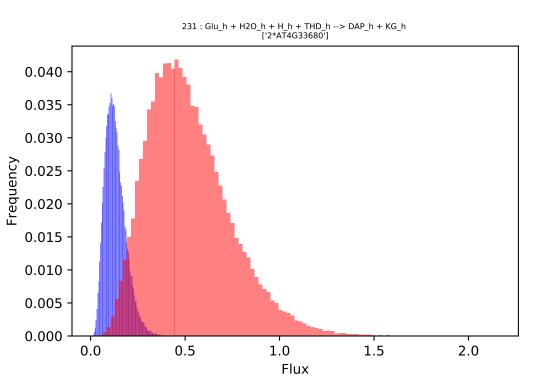


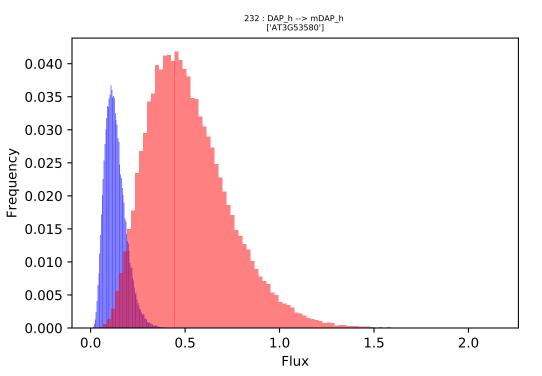


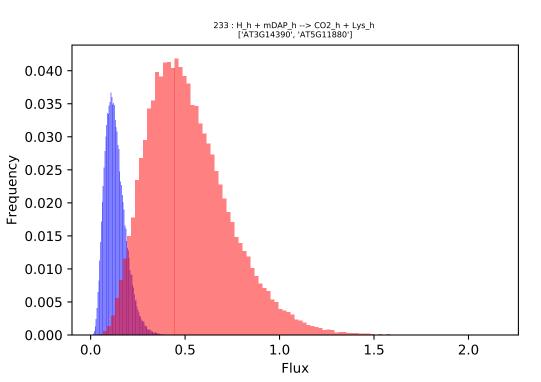


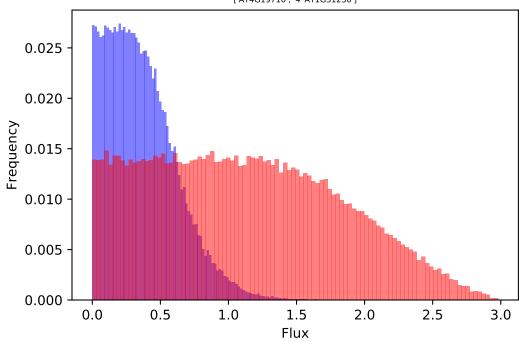
230 : DHD_h + H_h + NADPH_h --> NADP_h + THD_h ['AT2G44040', 'AT3G59890', 'AT5G52100']



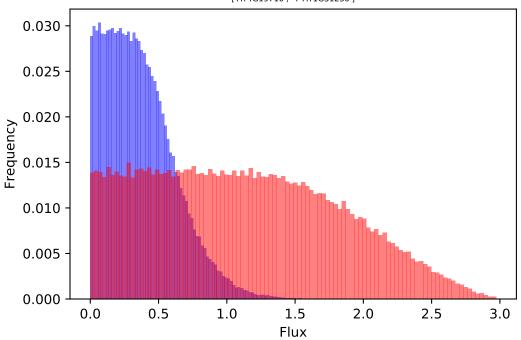


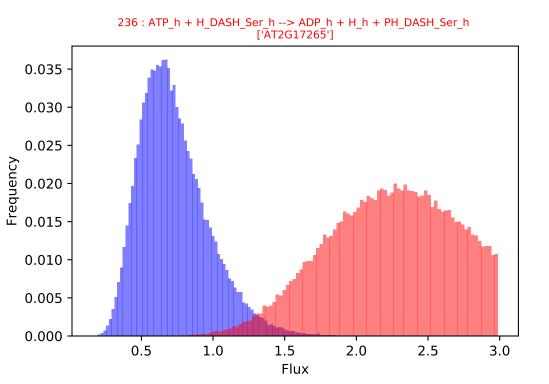


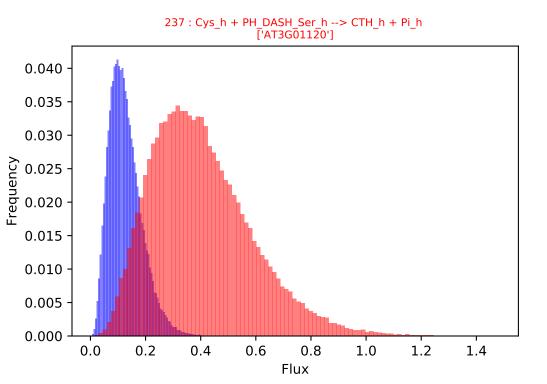


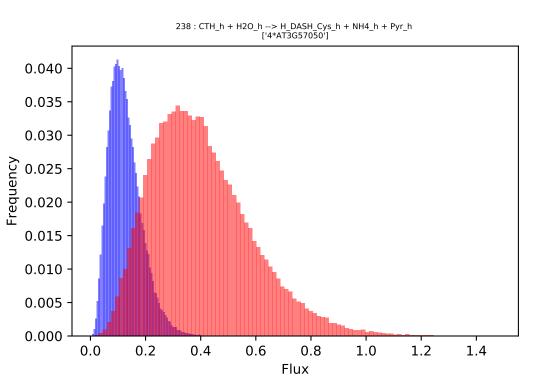


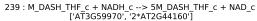
235 : Asp_DASH_SeA_h + H_h + NADH_h --> H_DASH_Ser_h + NAD_h ['AT4G19710', '4*AT1G31230']

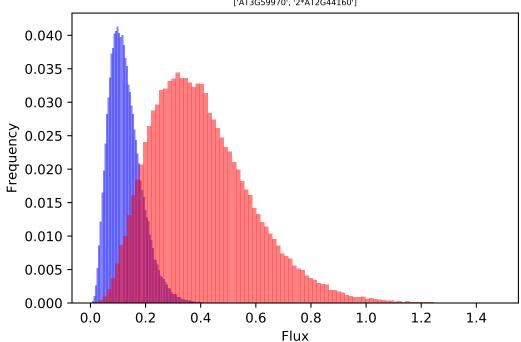


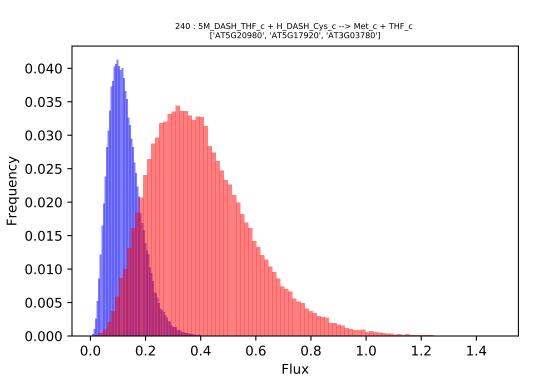


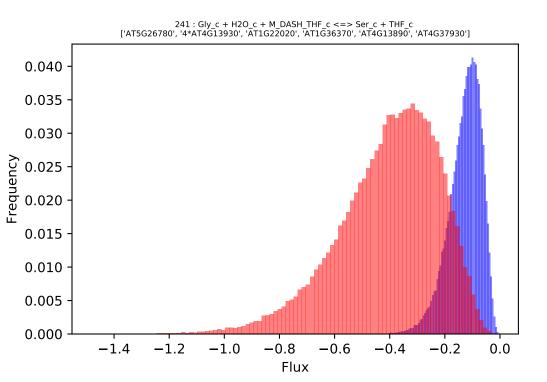




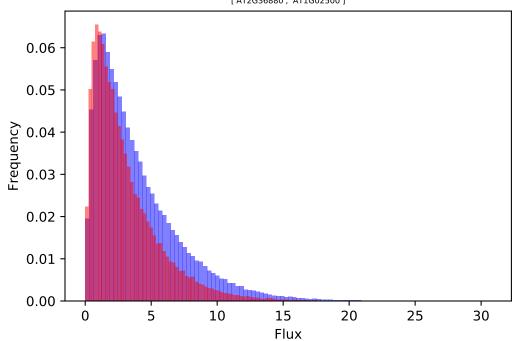


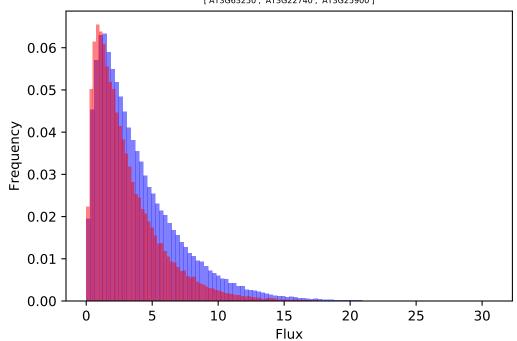


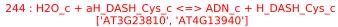


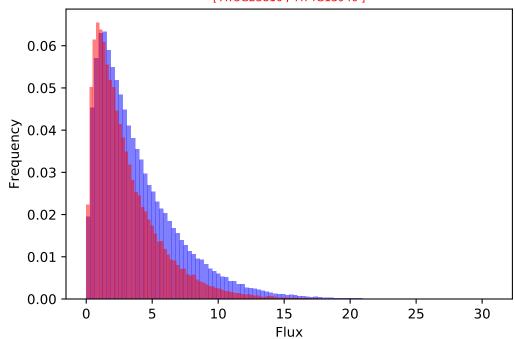


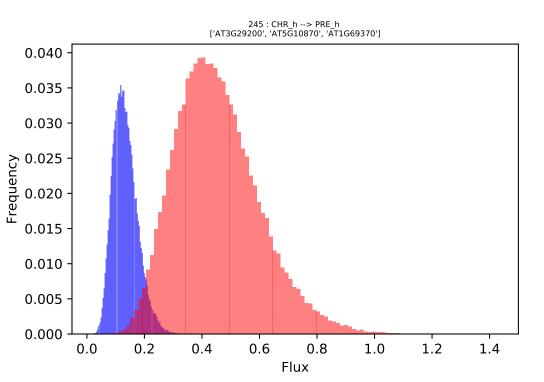
242 : ATP_c + H2O_c + Met_c --> H_c + PPi_c + Pi_c + $aMet_c$ ['AT2G36880', 'AT1G02500']

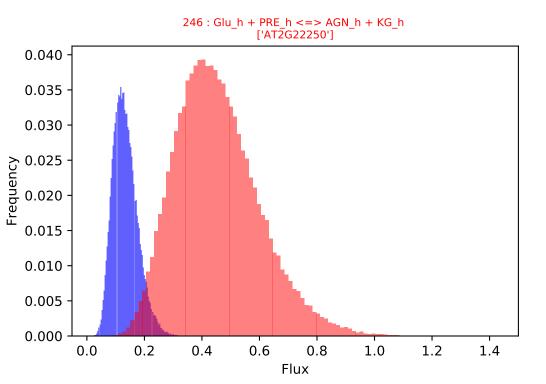


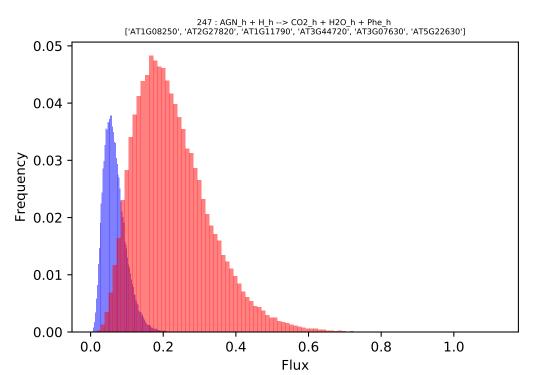




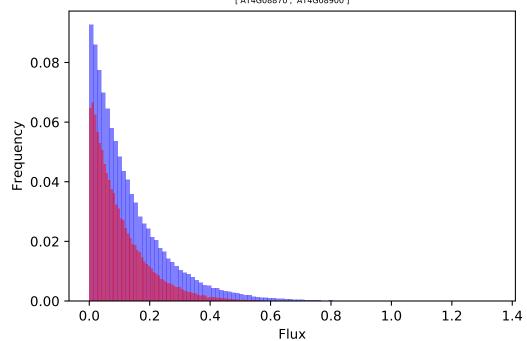


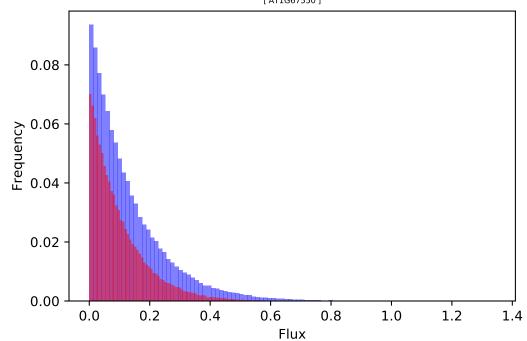


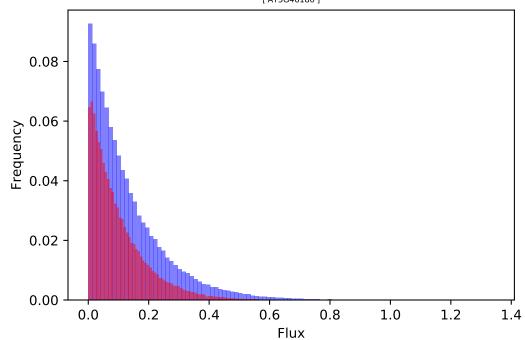


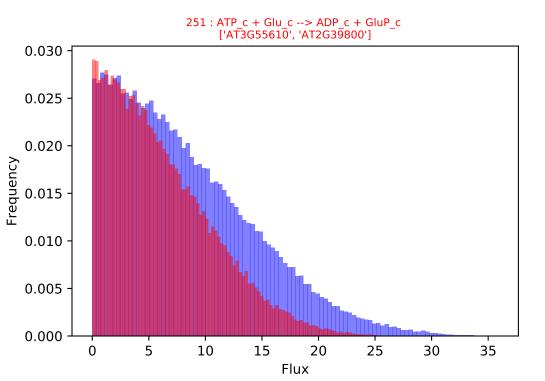


248 : Arg_m + H2O_m + H_m --> Orn_m + urea_m ['AT4G08870', 'AT4G08900']

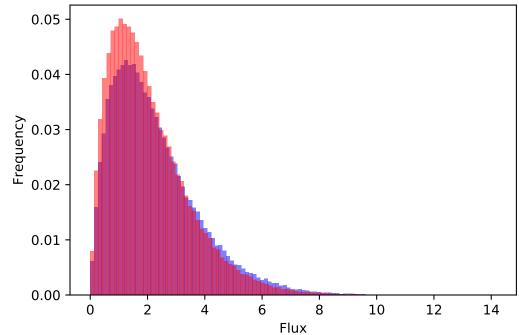


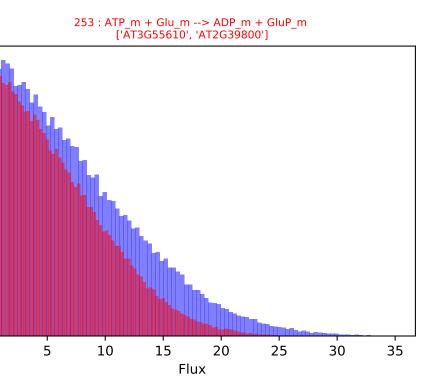






252 : ATP_h + Glu_h --> ADP_h + GluP_h ['AT3G55610', 'AT2G39800']





0.030

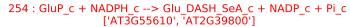
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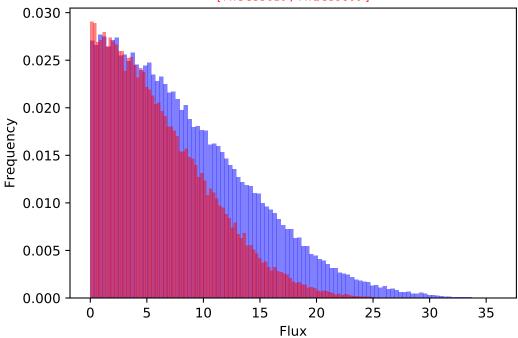
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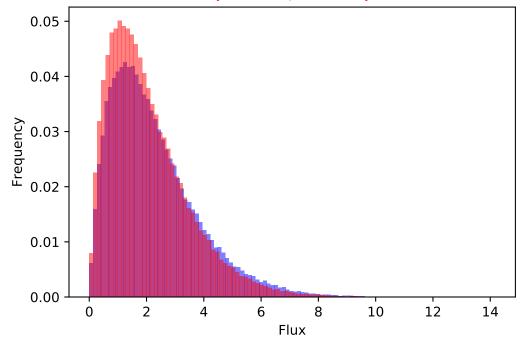
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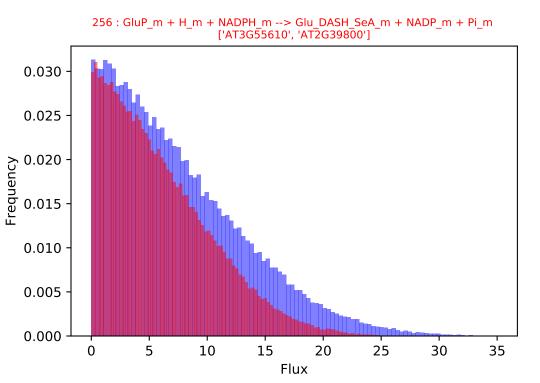
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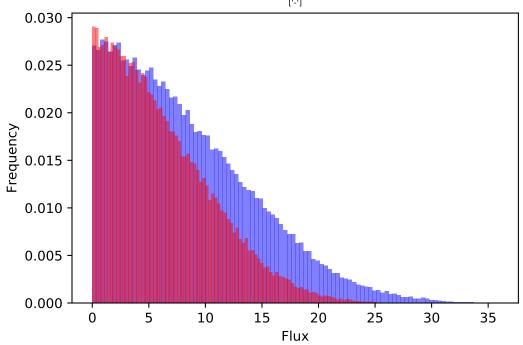
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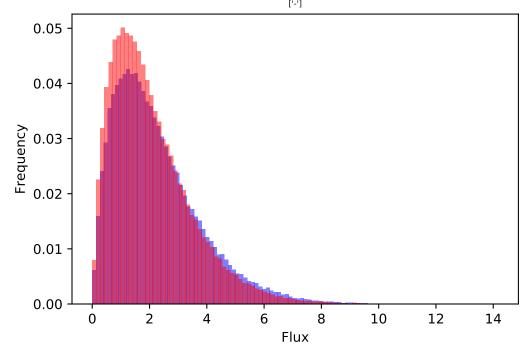


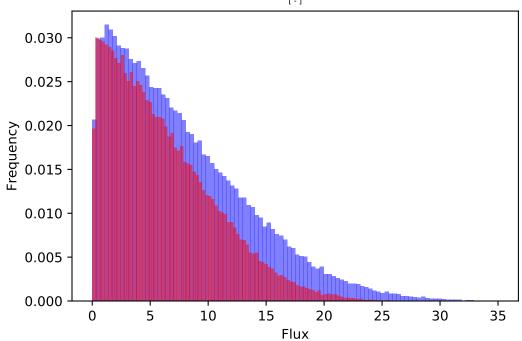


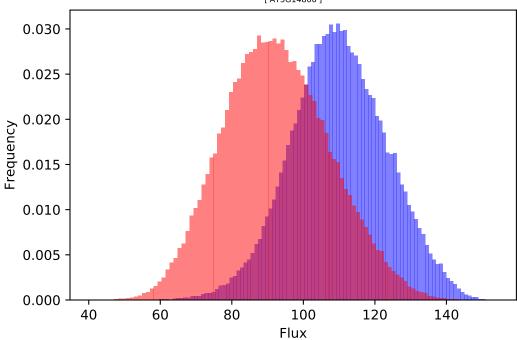




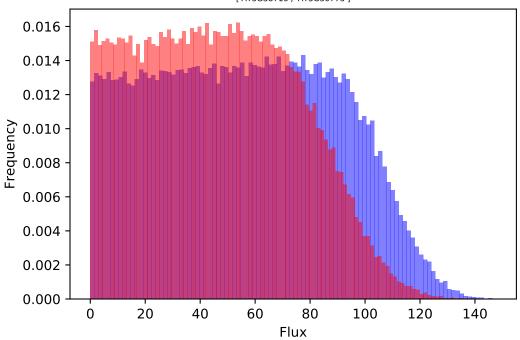




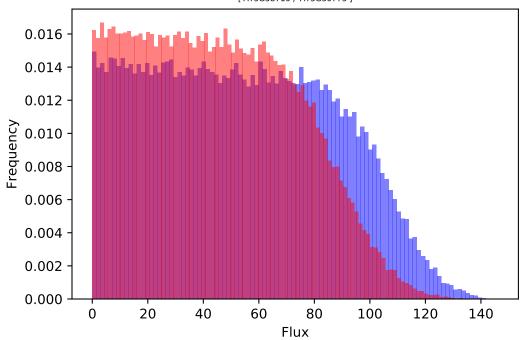


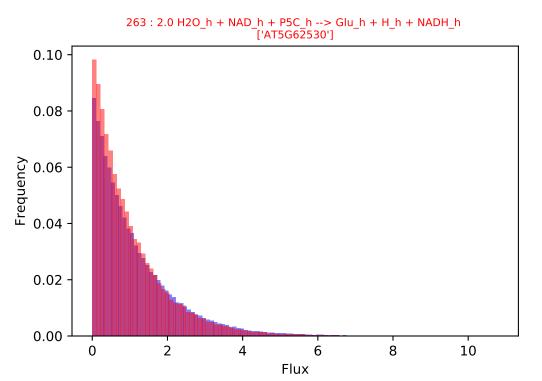


261 : NAD_m + Pro_m --> 2.0 H_m + NADH_m + P5C_m ['AT5G38710', 'AT3G30775']

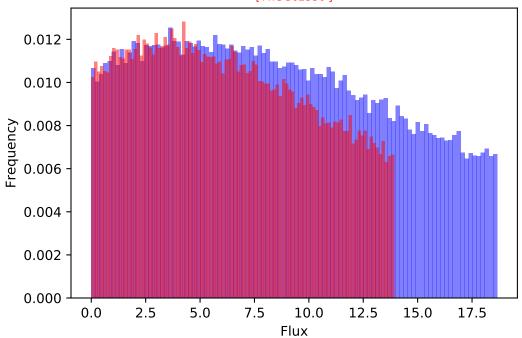


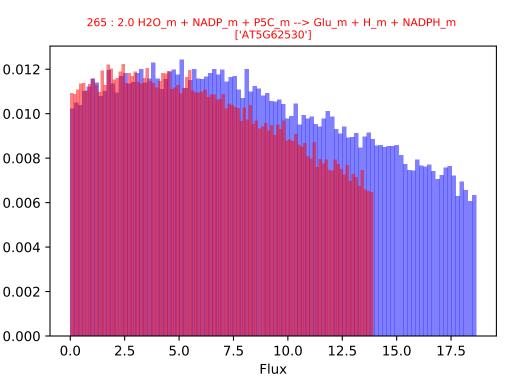
262 : NADP_m + Pro_m --> 2.0 H_m + NADPH_m + P5C_m ['AT5G38710', 'AT3G30775']





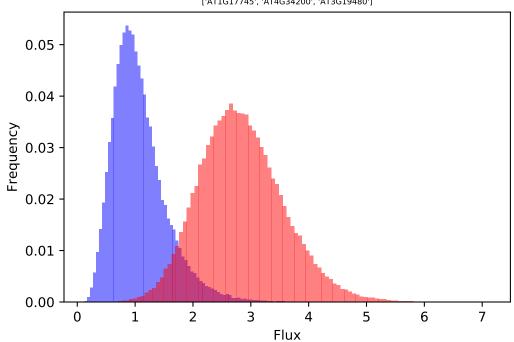




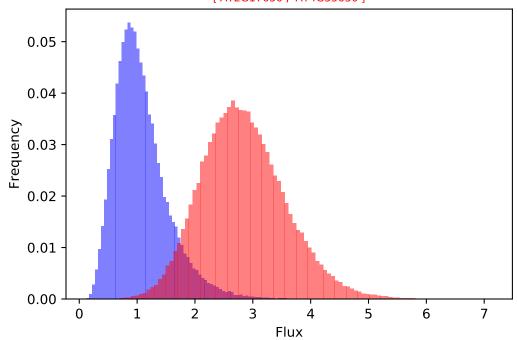


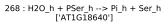
Frequency

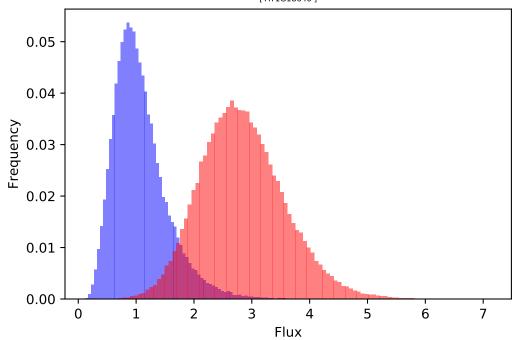
 $266: NAD_h + PGA_h <=> H_h + NADH_h + P_DASH_HPR_h$ ['AT1G17745', 'AT4G34200', 'AT3G19480']

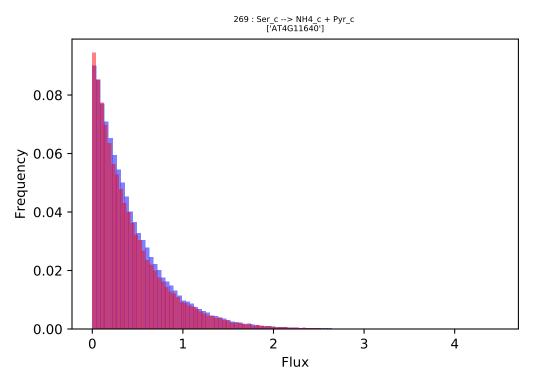


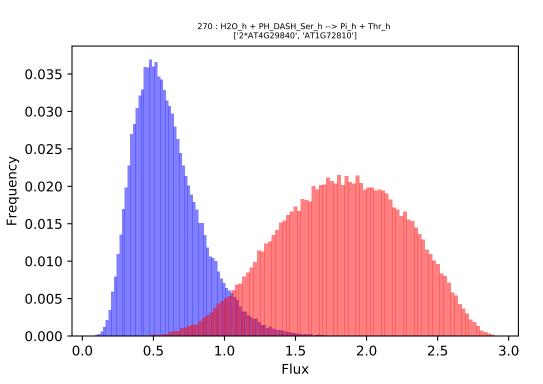
267 : Glu_h + P_DASH_HPR_h --> KG_h + PSer_h ['AT2G17630', 'AT4G35630']

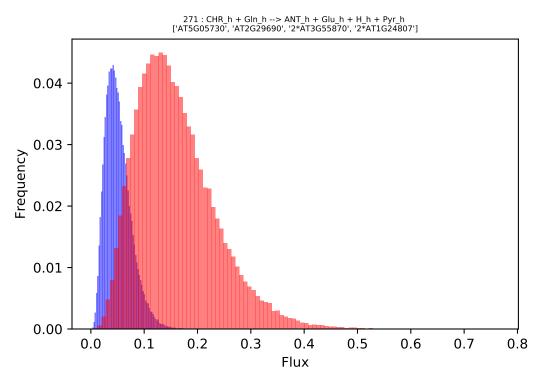




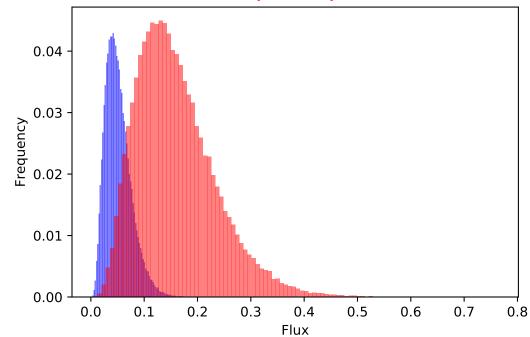


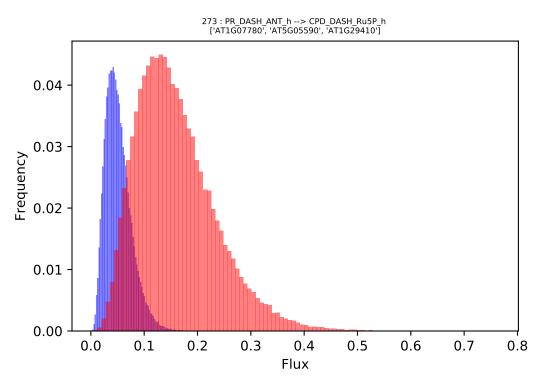




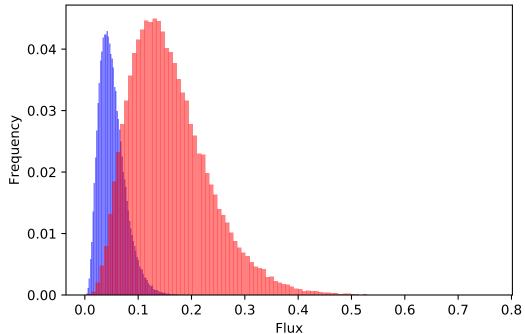


272 : ANT_h + PRPP_h --> H_h + PPi_h + PR_DASH_ANT_h ['AT5G17990']

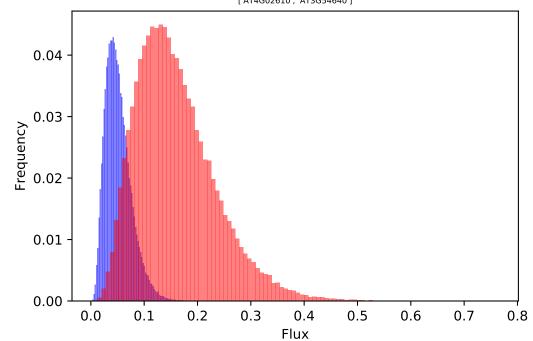


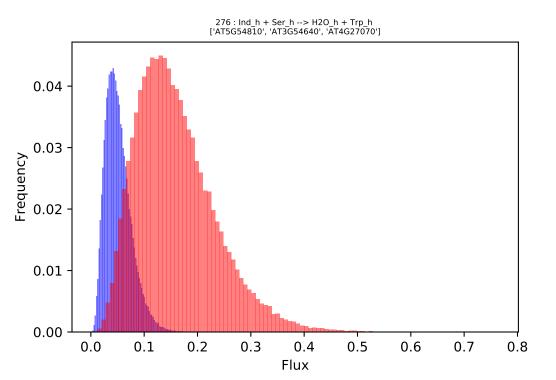


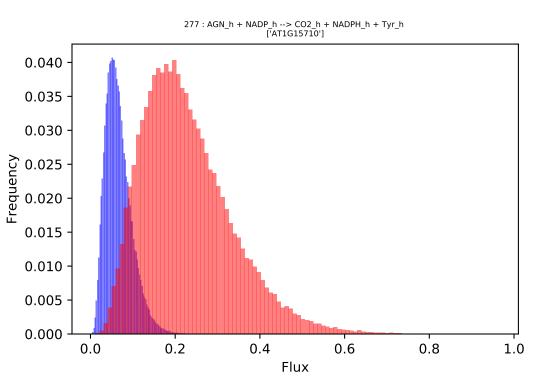
274 : CPD_DASH_Ru5P_h + H_h --> CO2_h + H2O_h + Ind_DASH_GP_h ['AT5G48220', 'AT2G04400']

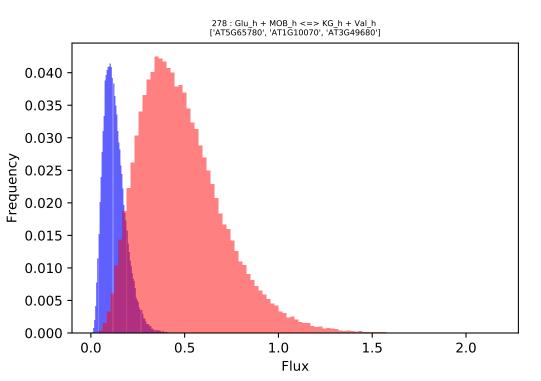


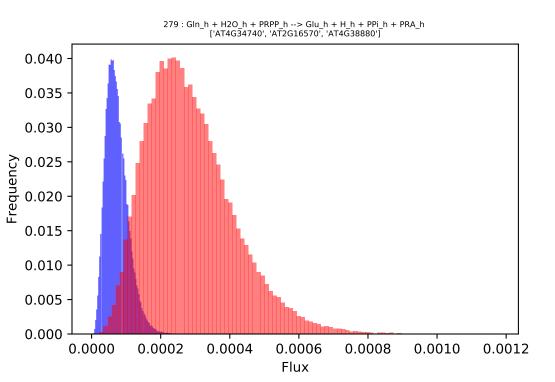
275 : Ind_DASH_GP_h --> GAP_h + Ind_h ['AT4G02610', 'AT3G54640']

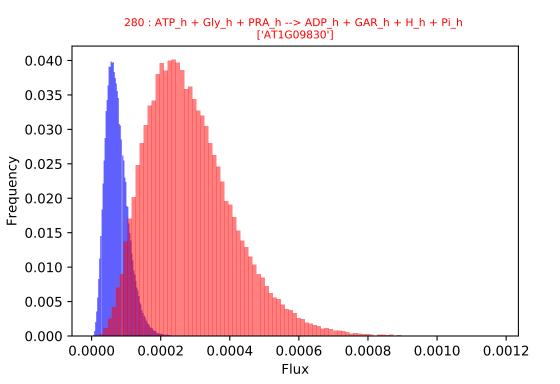


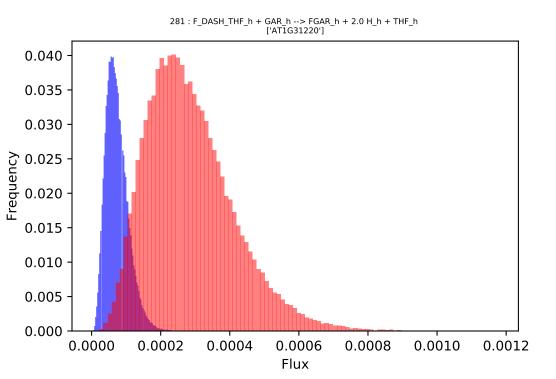




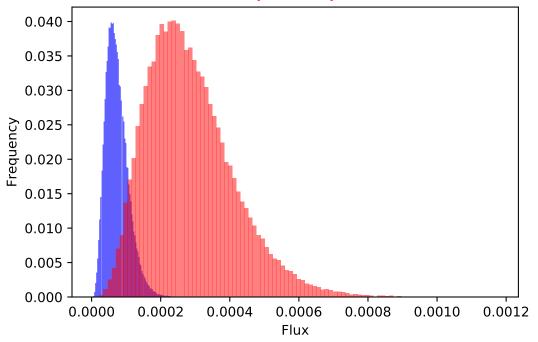


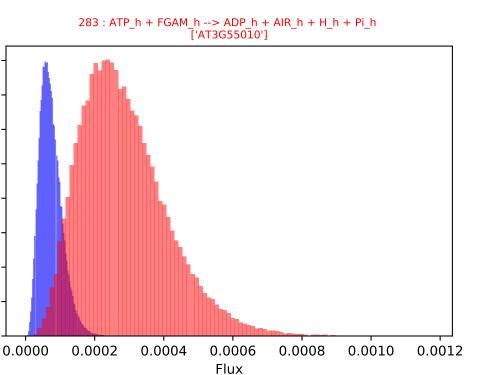






282 : ATP_h + FGAR_h + Gln_h + H2O_h --> ADP_h + FGAM_h + Glu_h + 2.0 H_h + Pi_h ['AT1G74260']





0.040

0.035 -

0.030 -

0.025 -

0.020 -

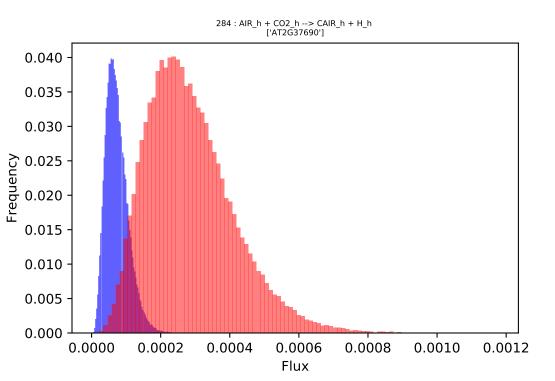
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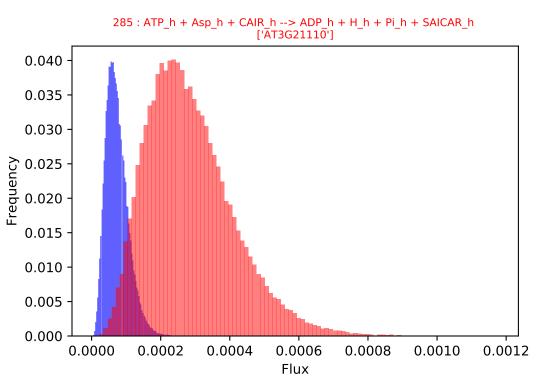
0.010 -

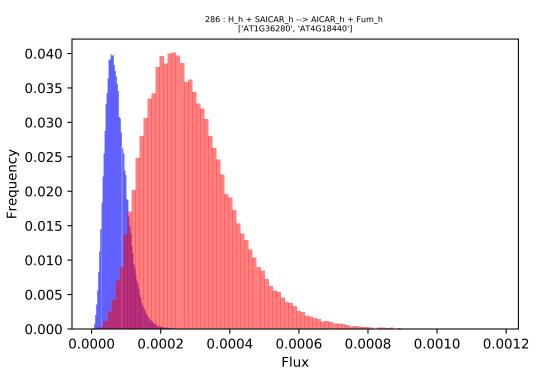
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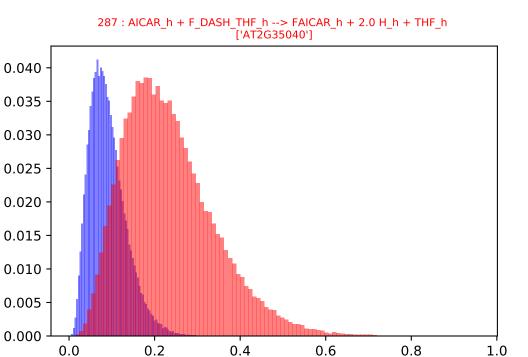
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Frequency









Flux

0.040

0.035 -

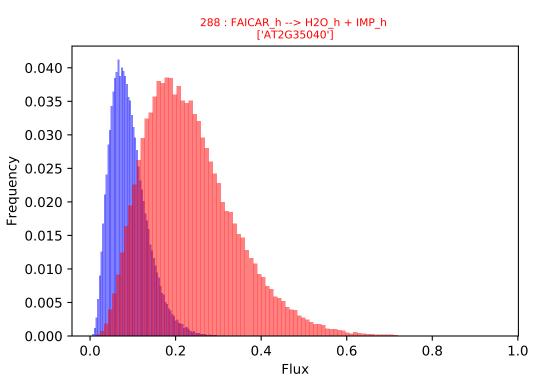
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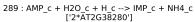
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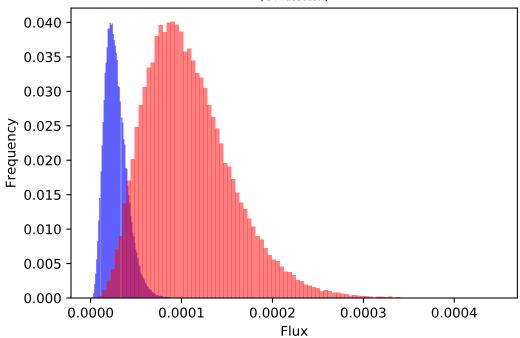
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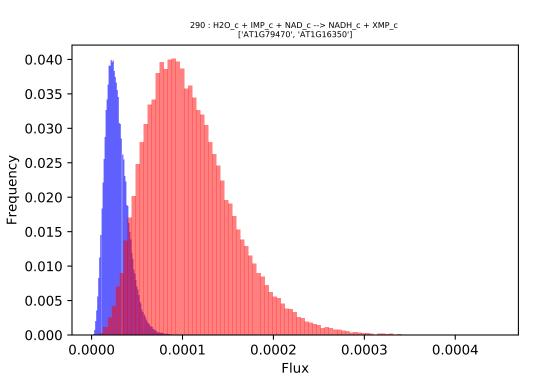
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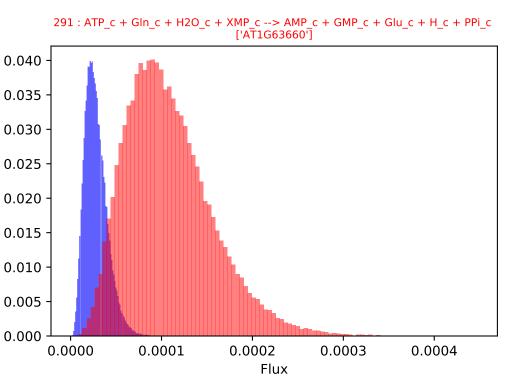
Frequency

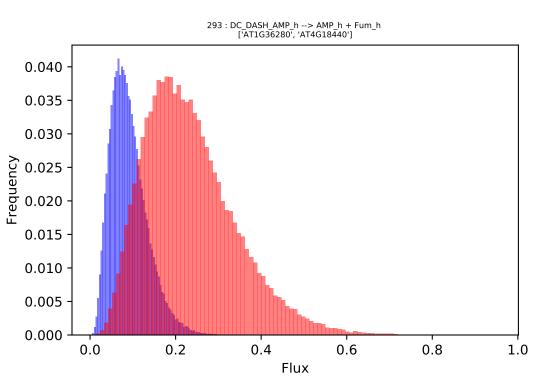


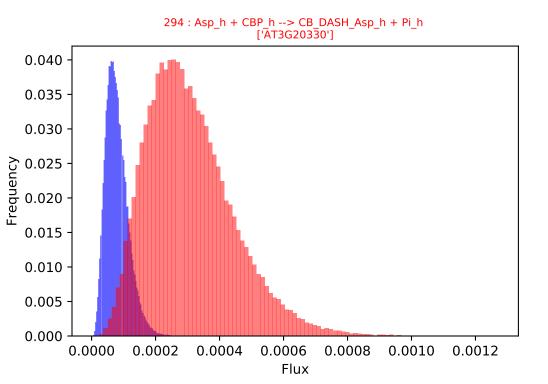


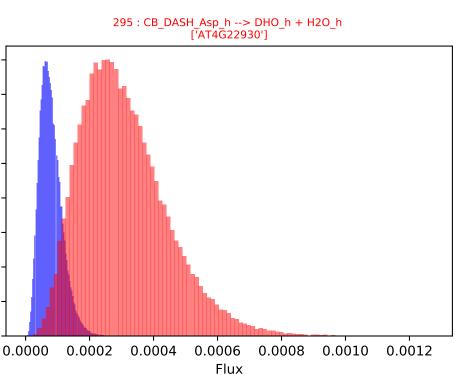












0.040

0.035 -

0.030 -

0.025 -

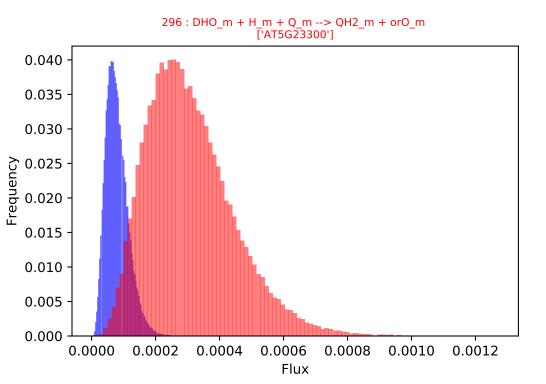
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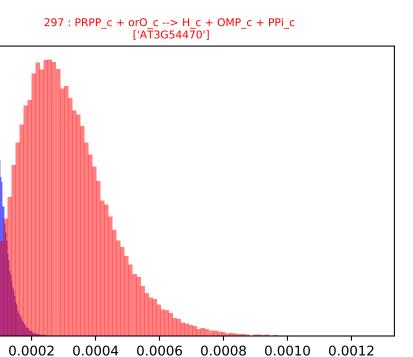
0.015 -

0.010 -

0.005 -

0.000





Flux

0.040

0.035 -

0.030 -

0.025 -

0.020 -

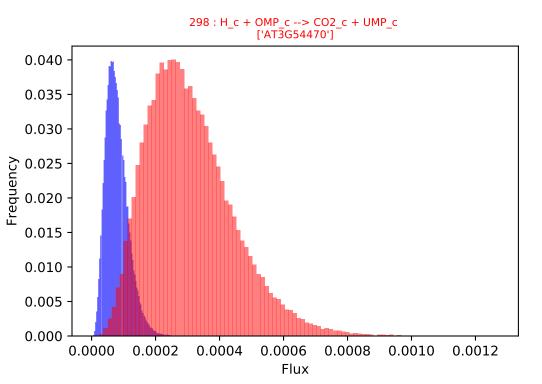
0.015 -

0.010 -

0.005 -

0.000

0.0000



0.0003

Flux

0.0005

0.0002

0.040

0.035 -

0.030

0.025 -

0.020

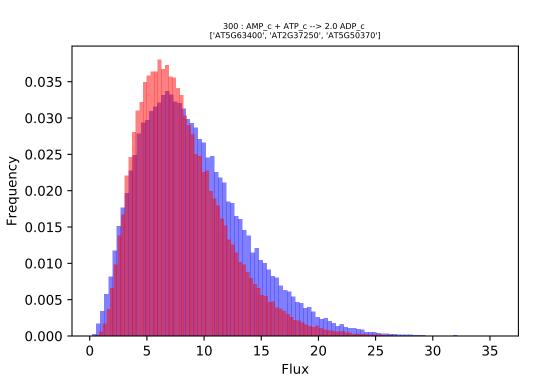
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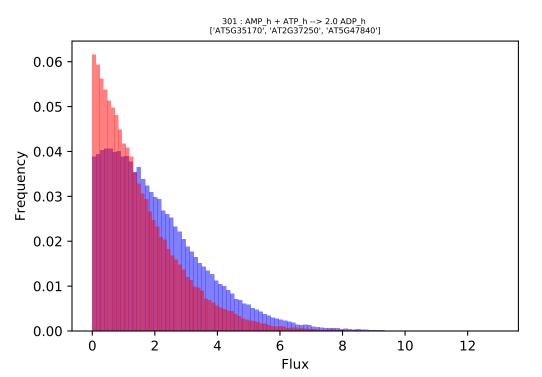
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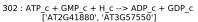
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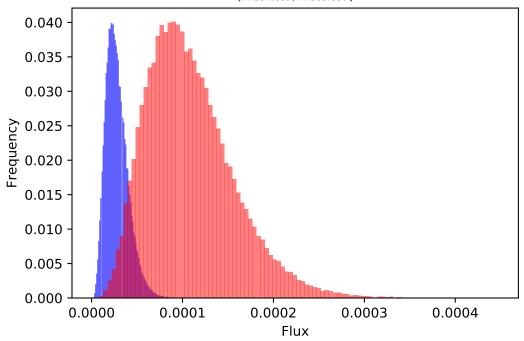
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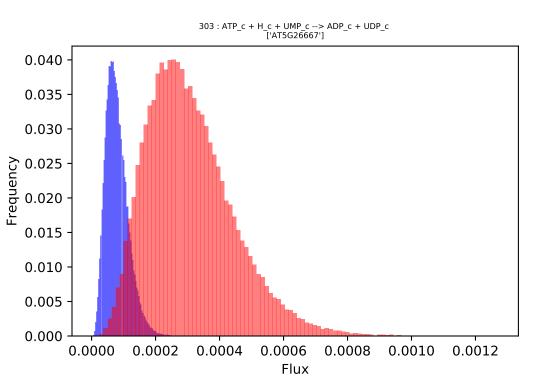
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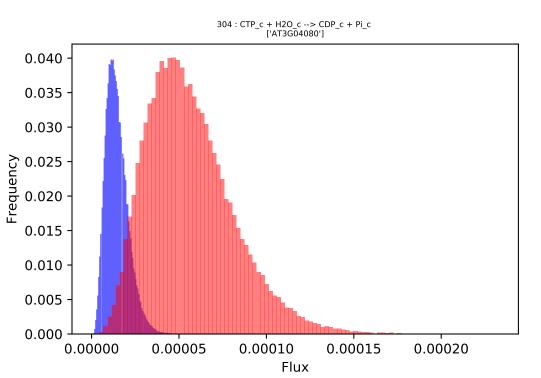


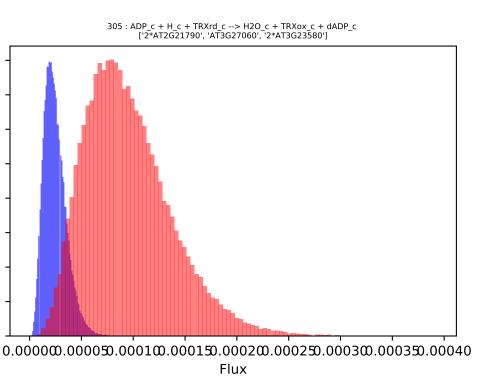












0.040

0.035 -

0.030

0.025 -

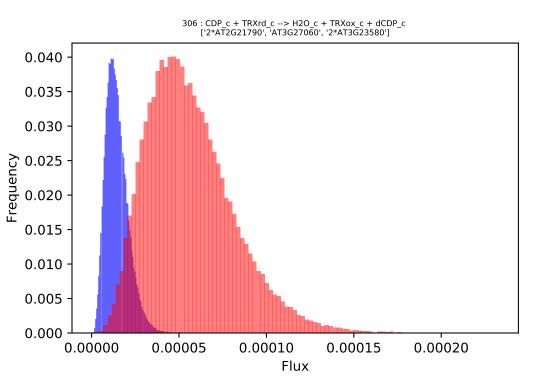
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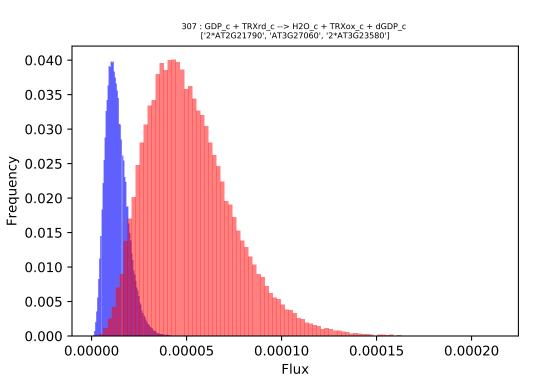
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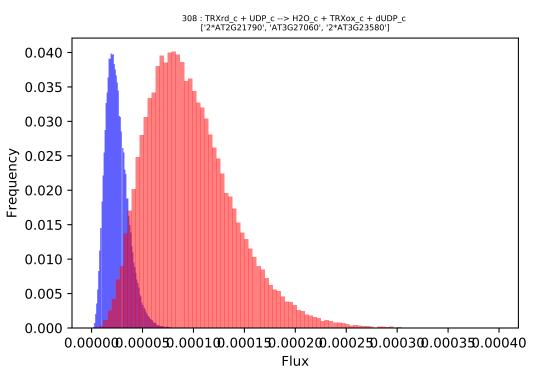
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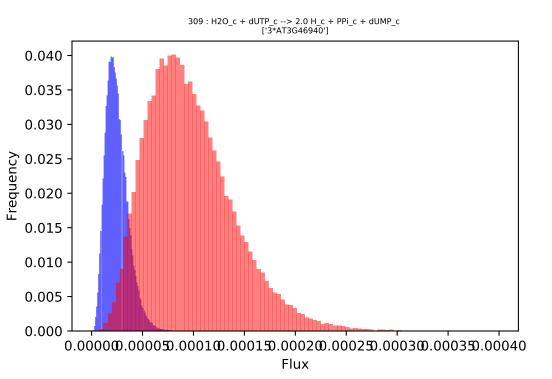
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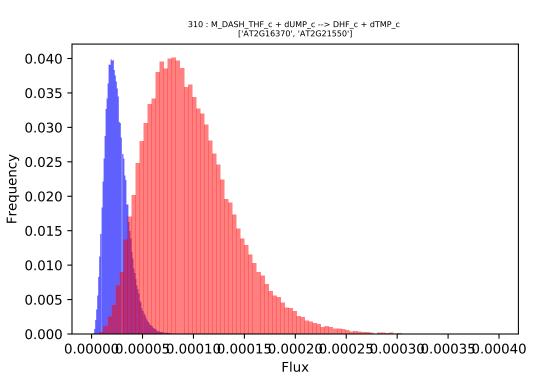
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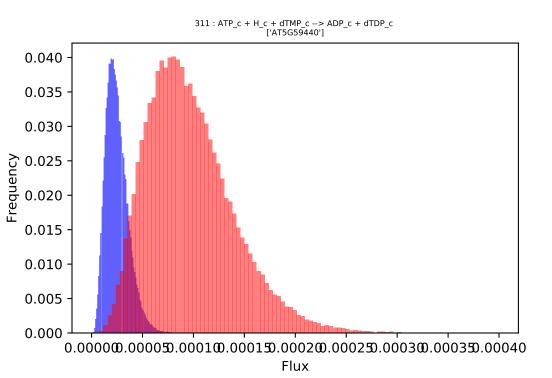


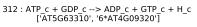


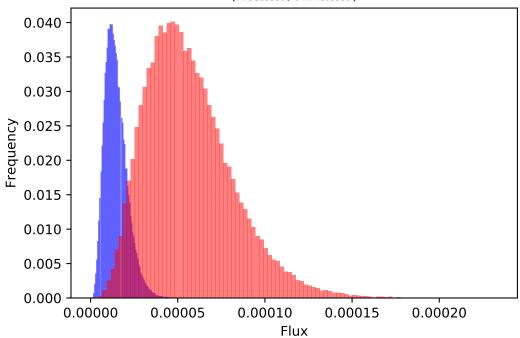


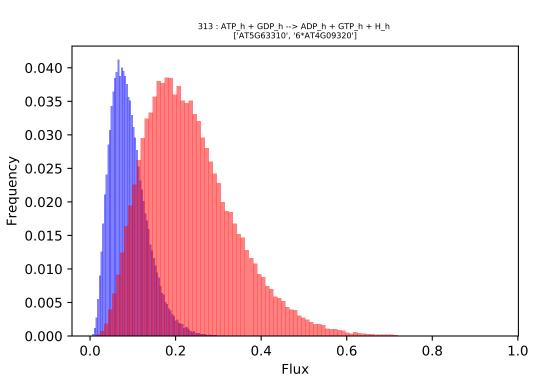












Flux

0.035

0.030

0.025 -

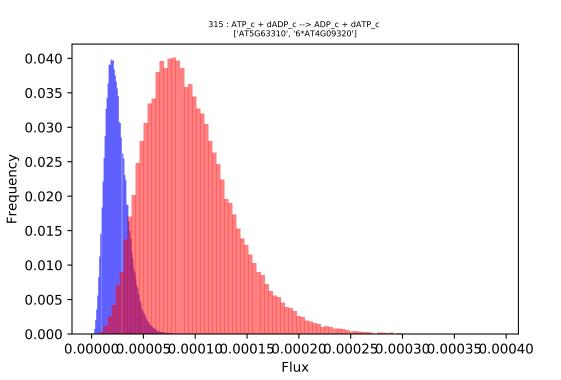
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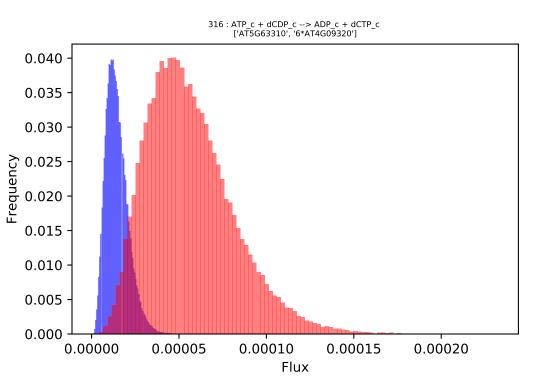
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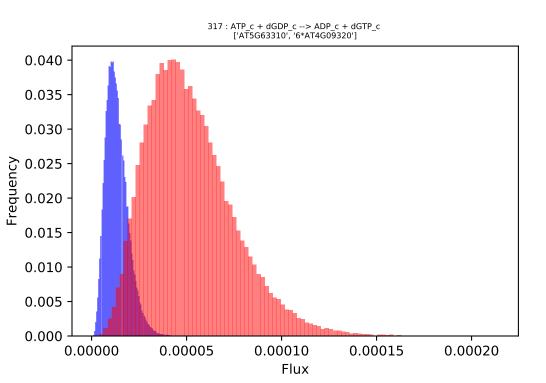
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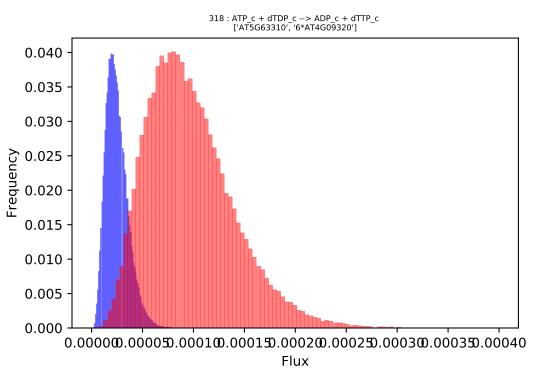
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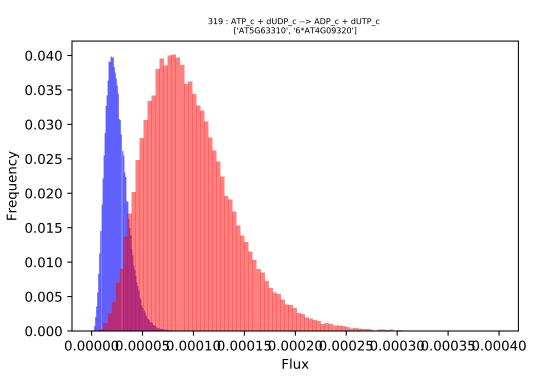
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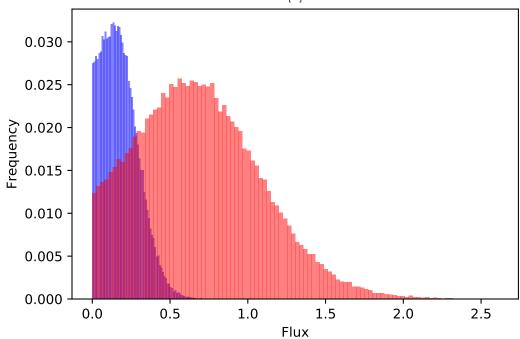


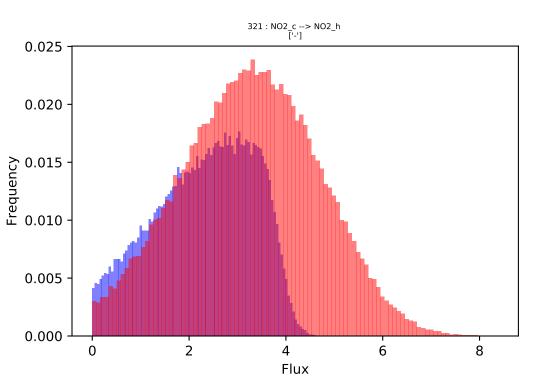


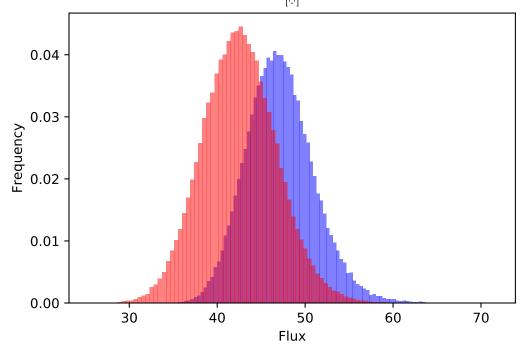


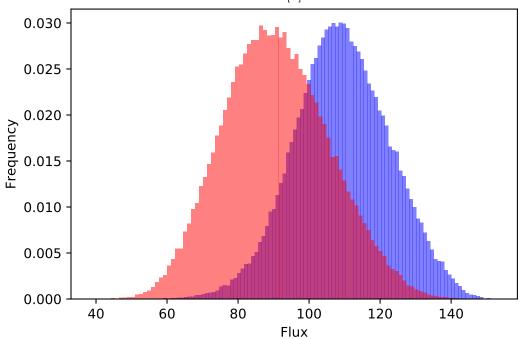


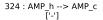


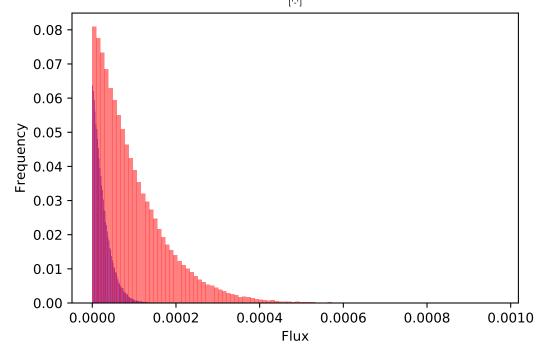




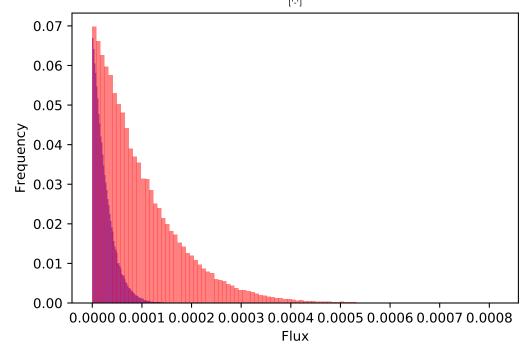




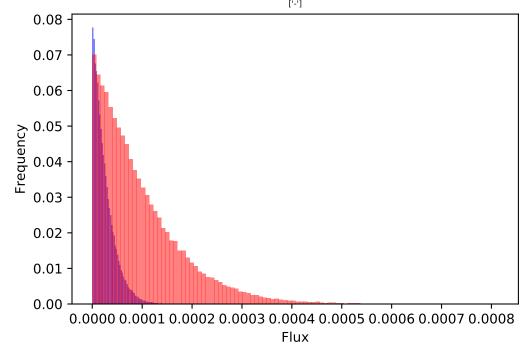


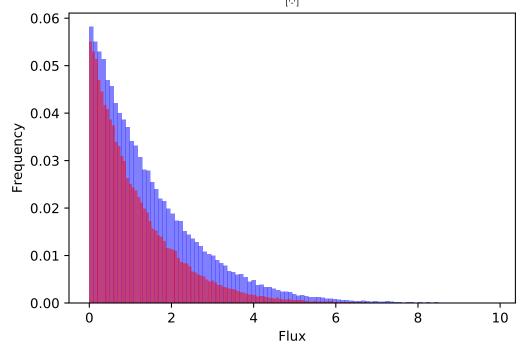


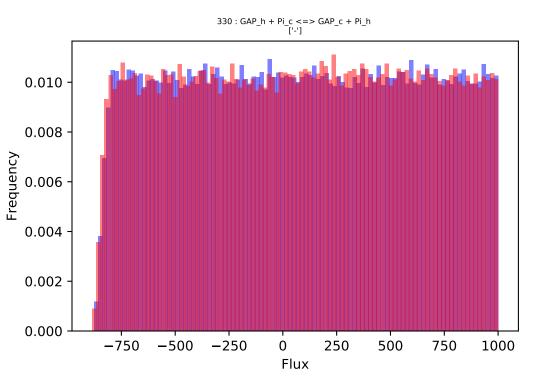


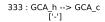


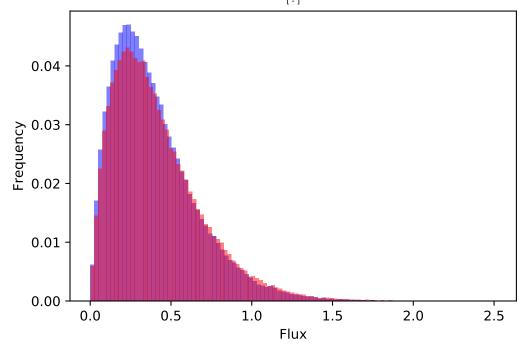


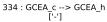


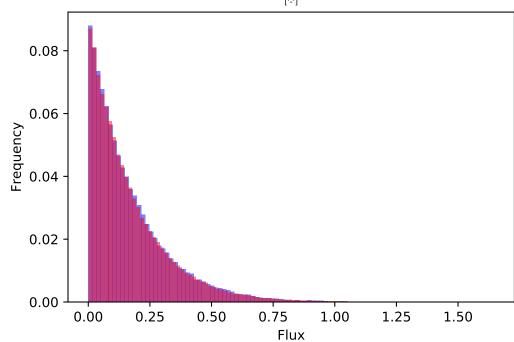


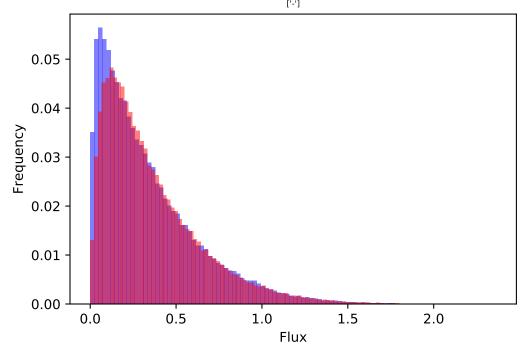


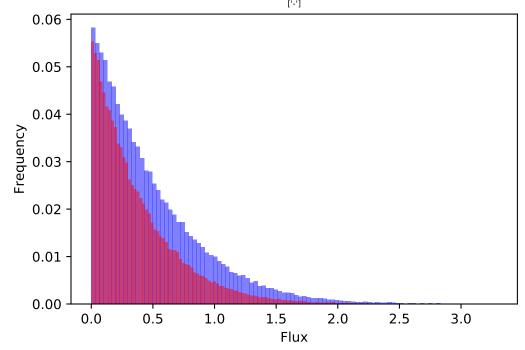


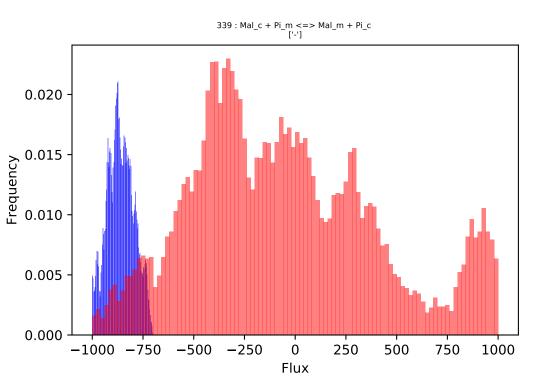


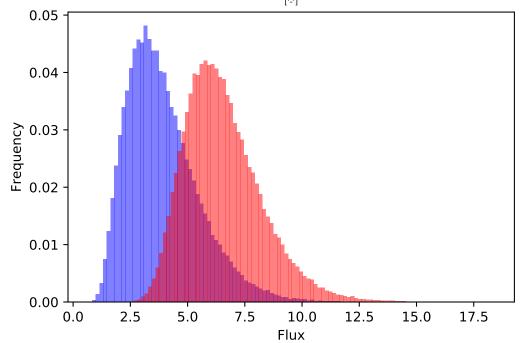


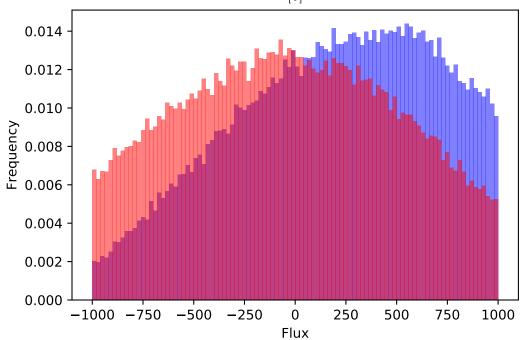


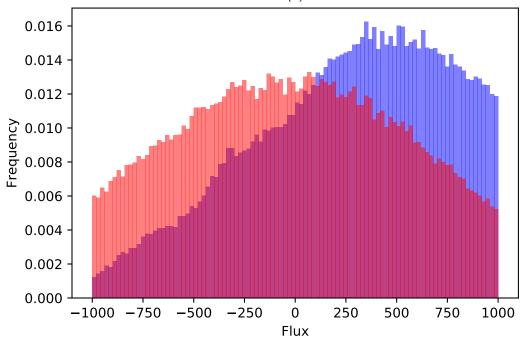


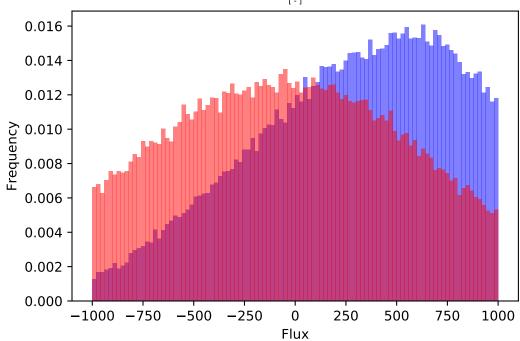


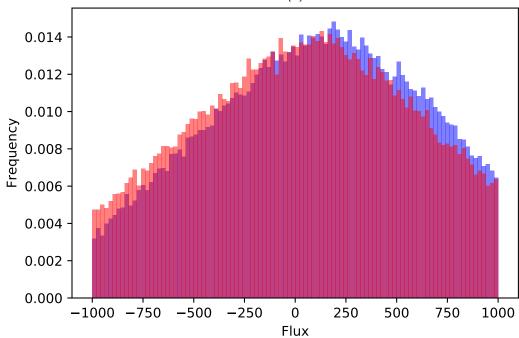


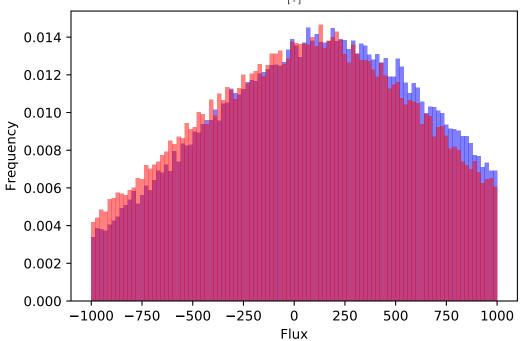


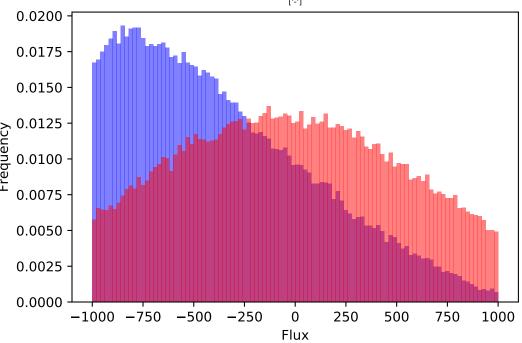


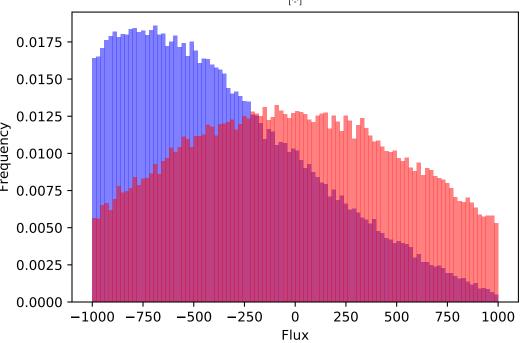


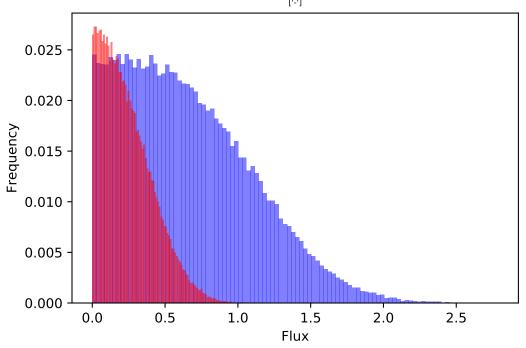


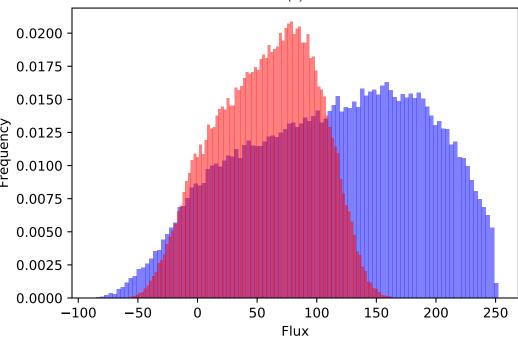


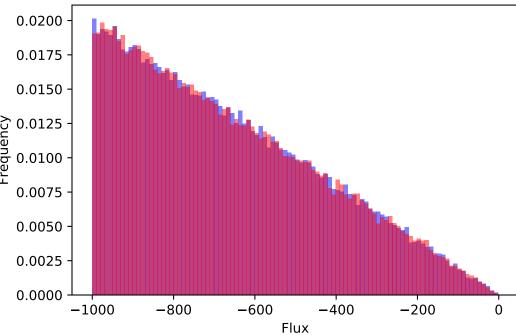


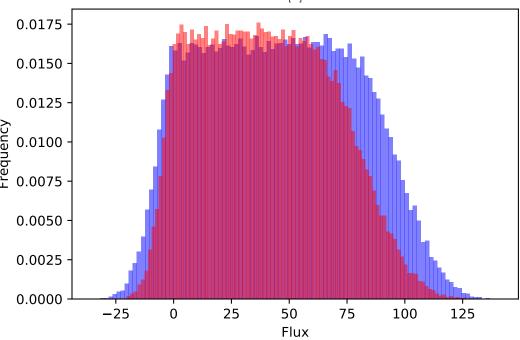


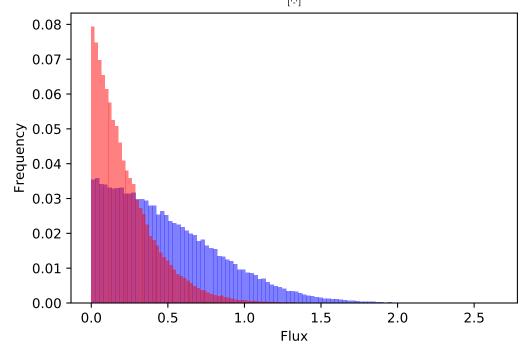




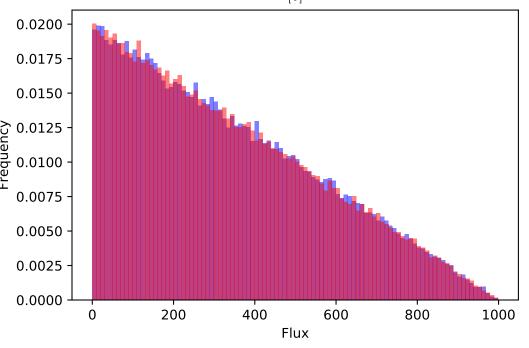


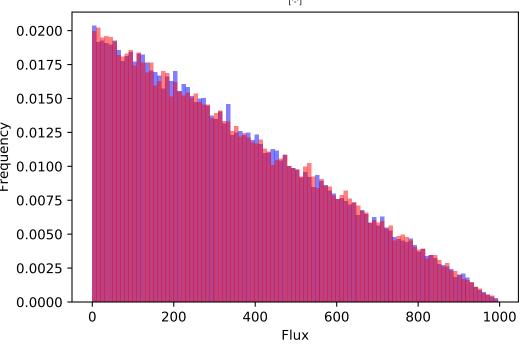


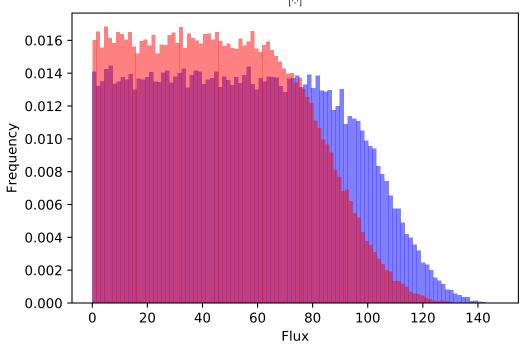


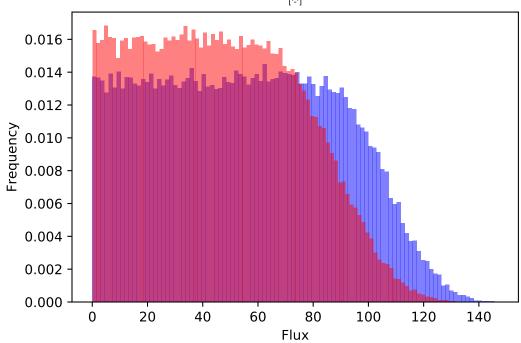


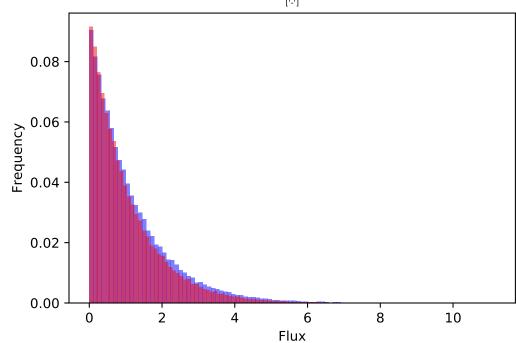
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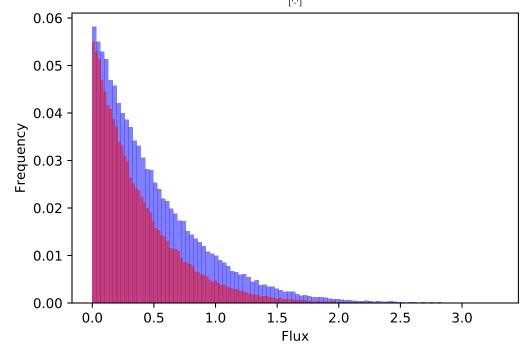


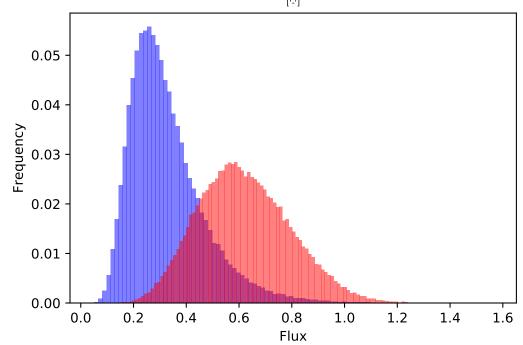


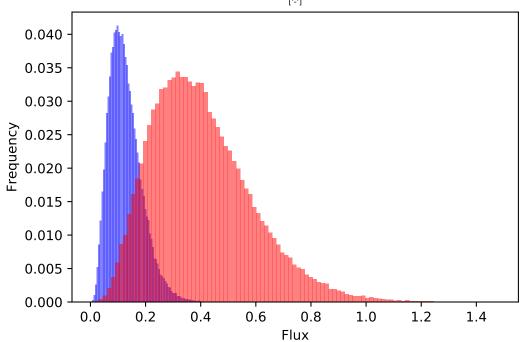


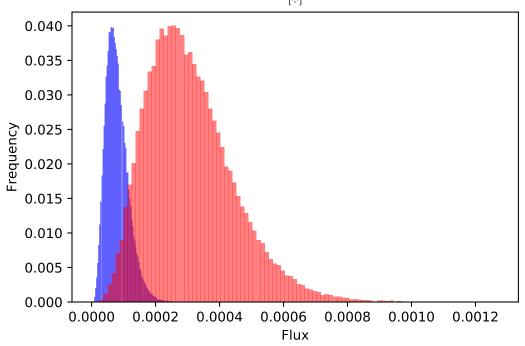


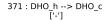


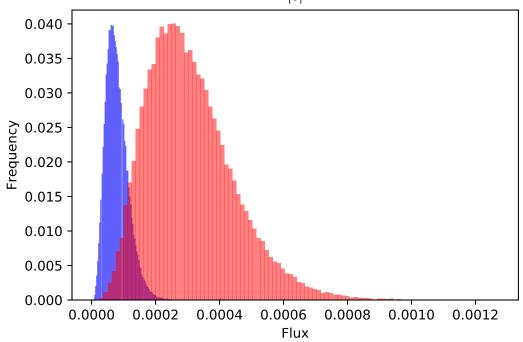


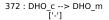


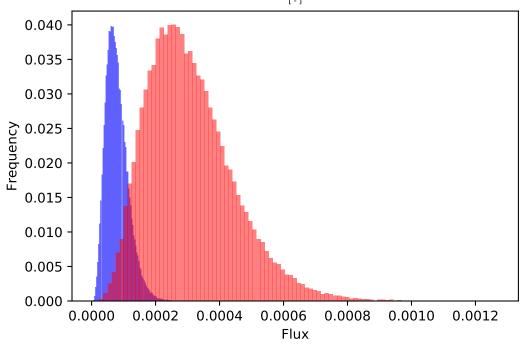


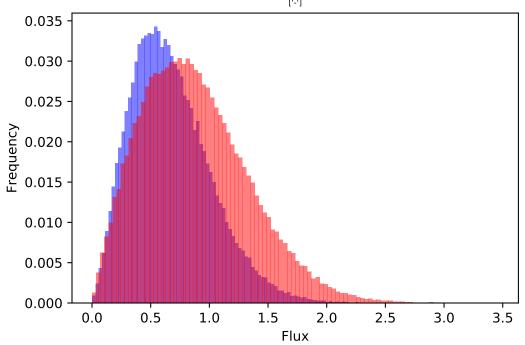


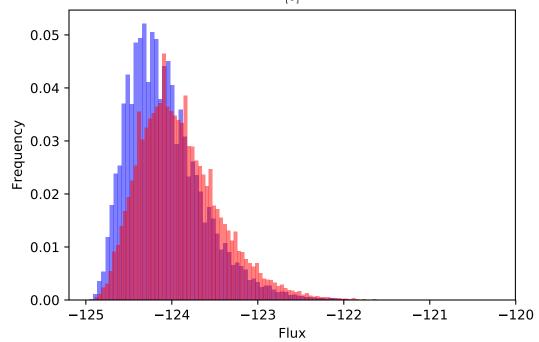


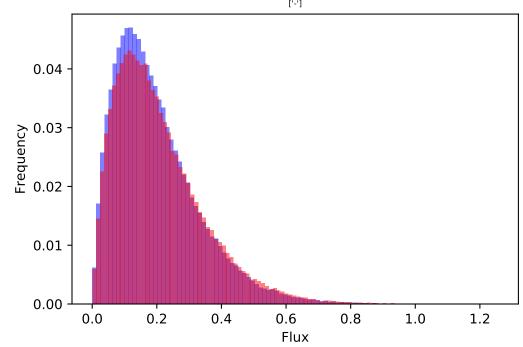


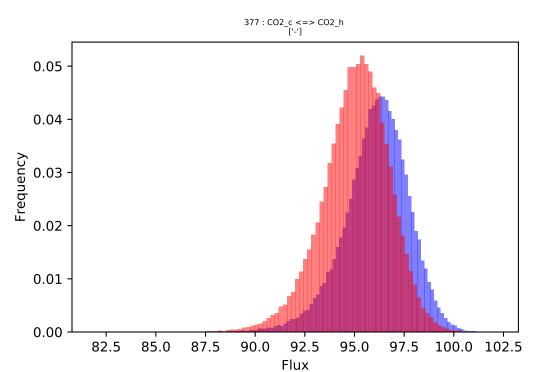








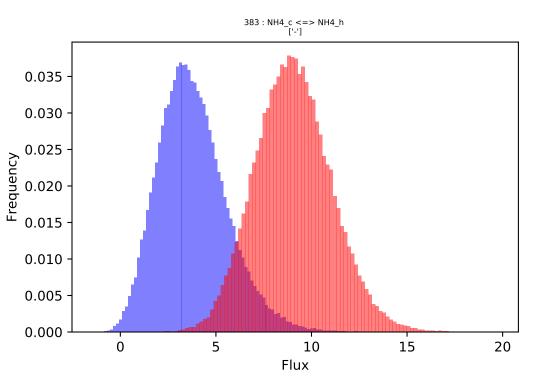


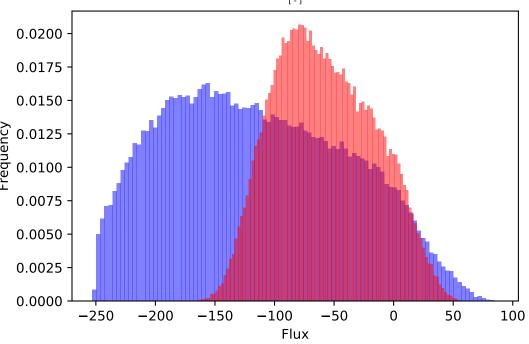


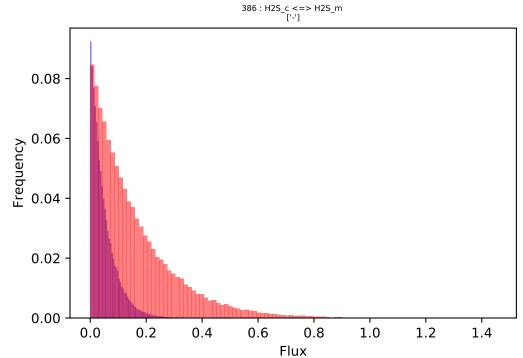
Flux

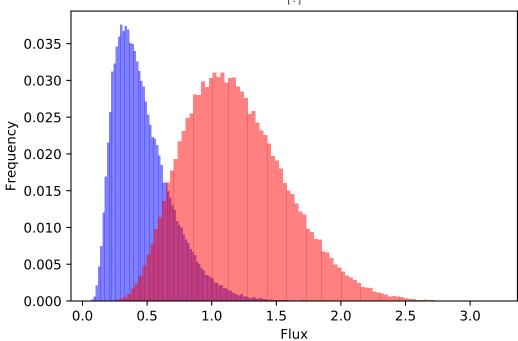
Flux

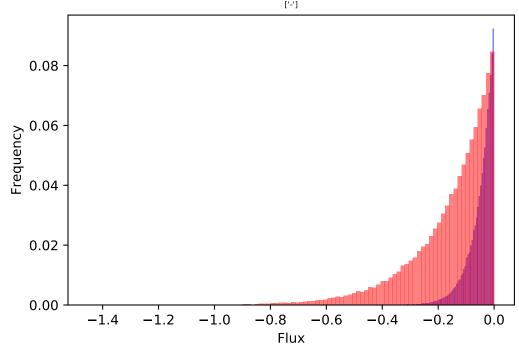
Flux

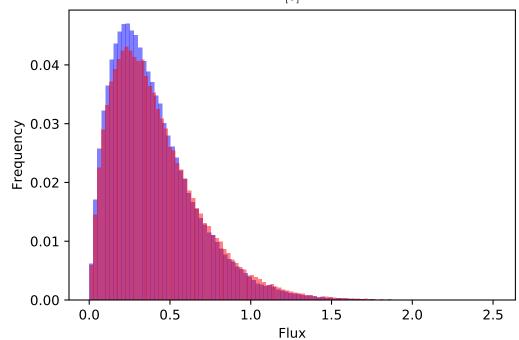


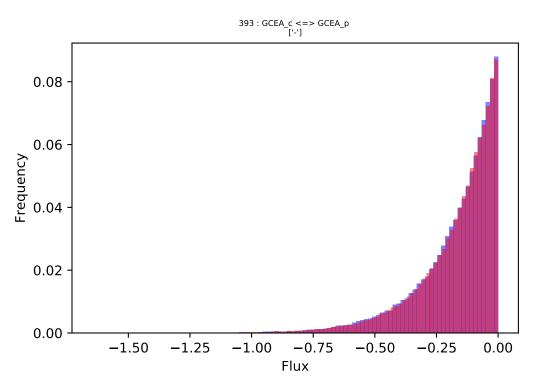


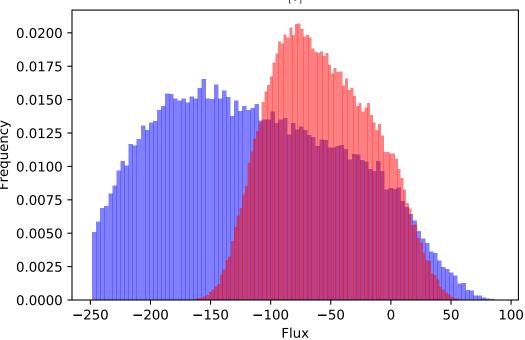


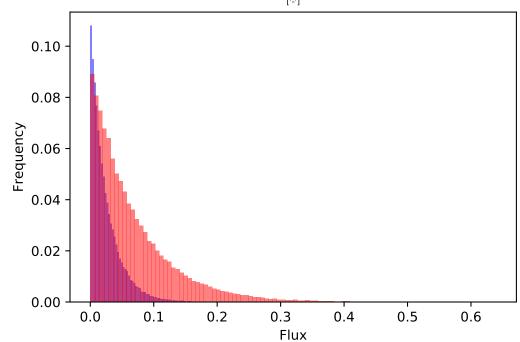


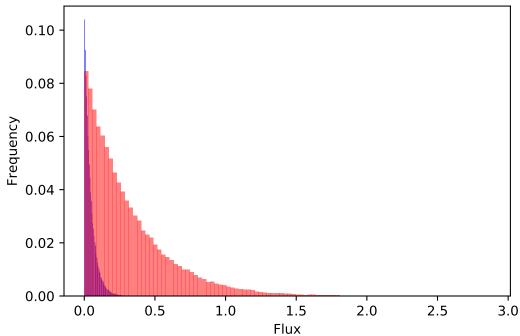


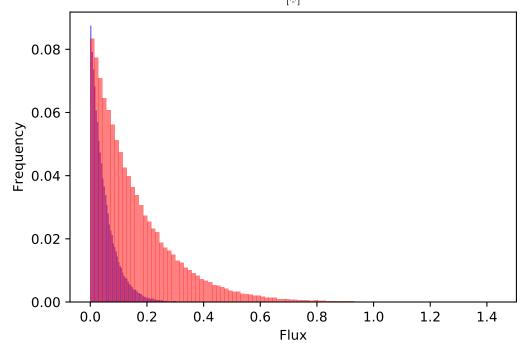


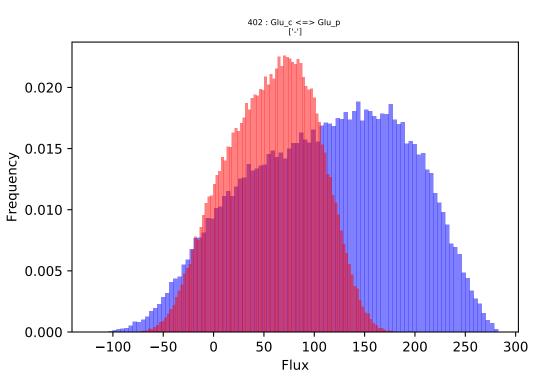


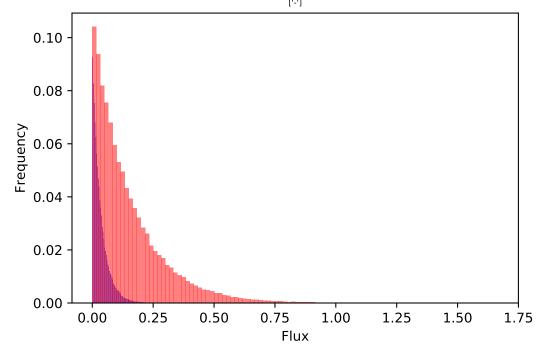


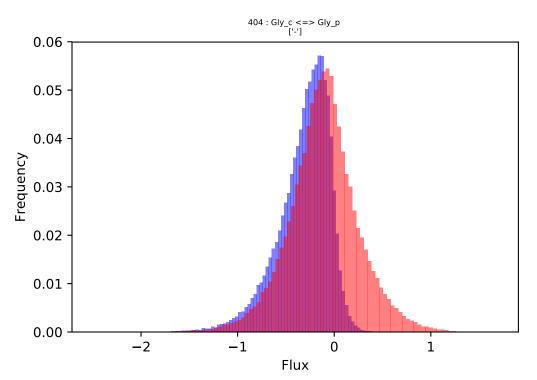


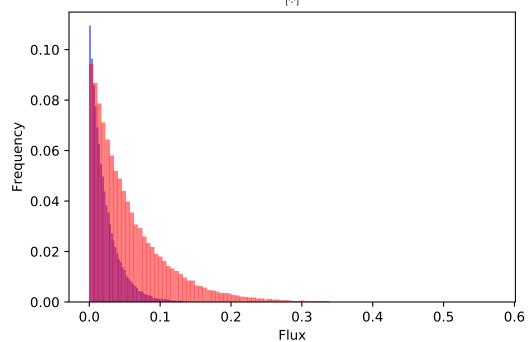


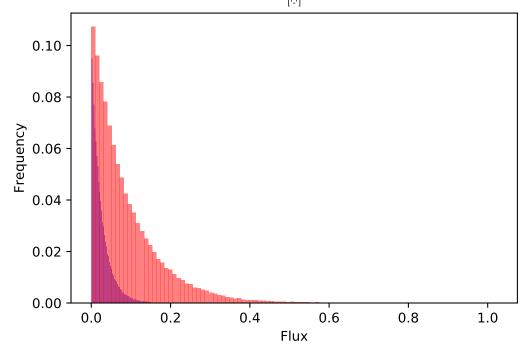


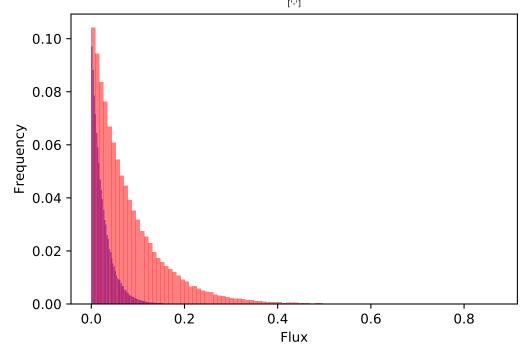






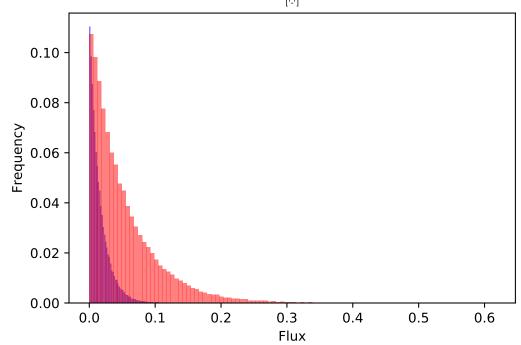


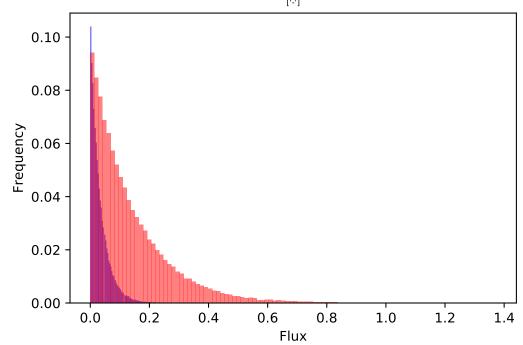




Flux

Flux





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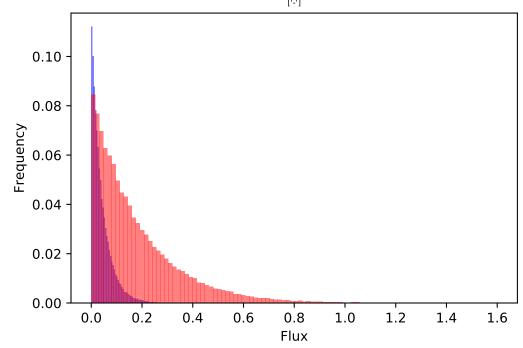
Flux

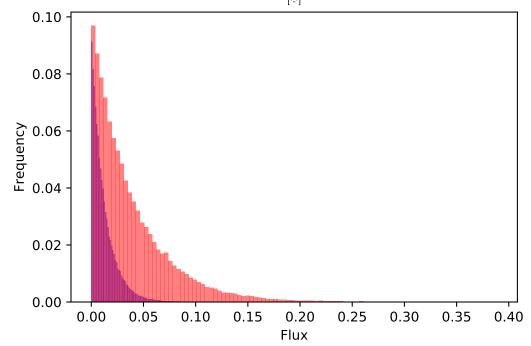
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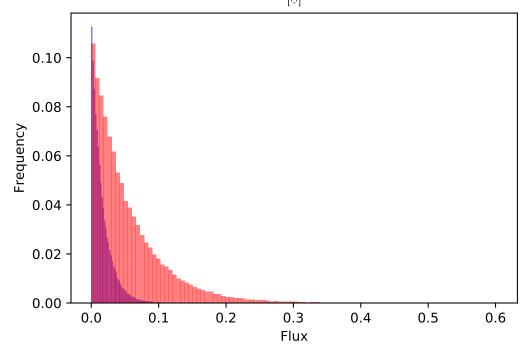
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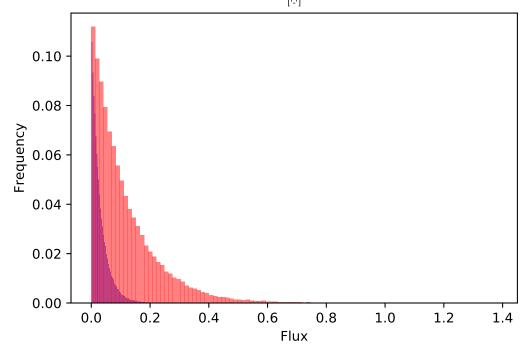
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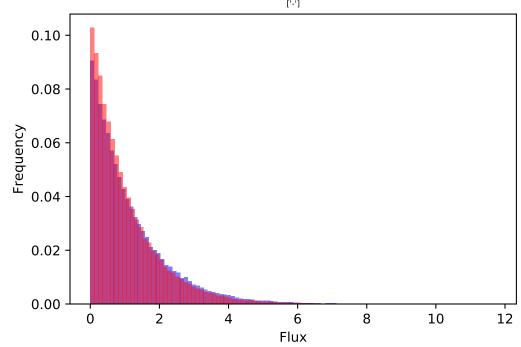
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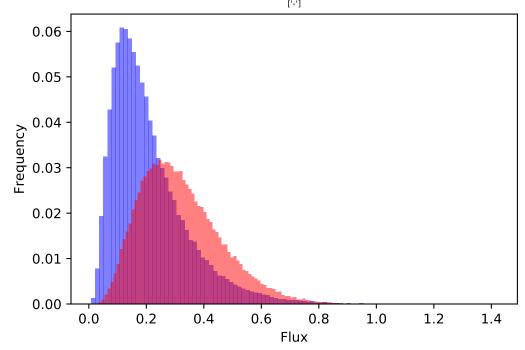


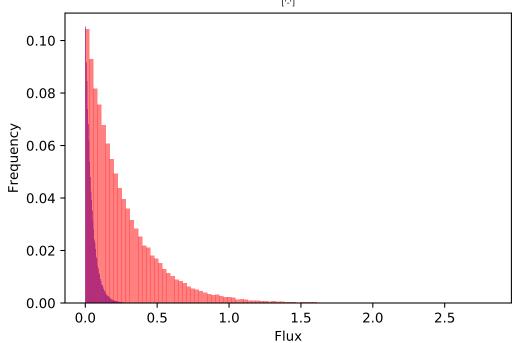


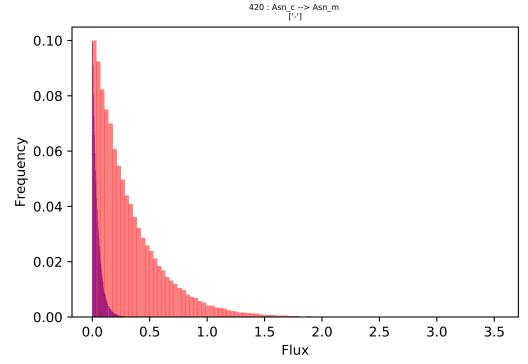


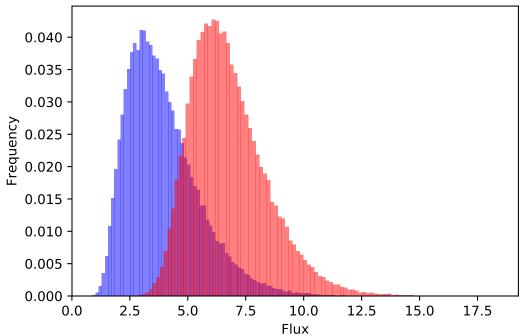


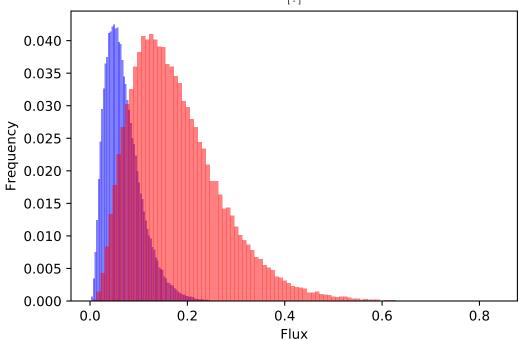


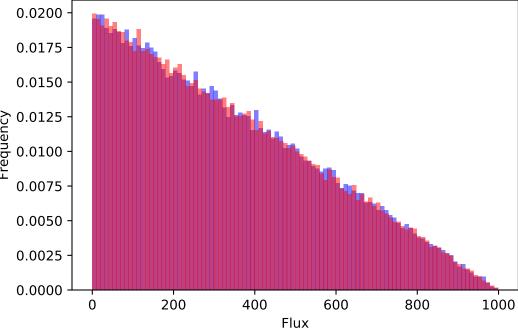


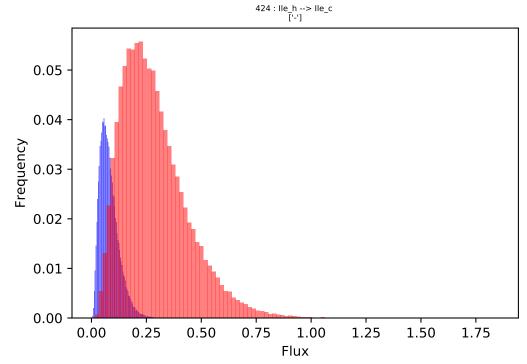


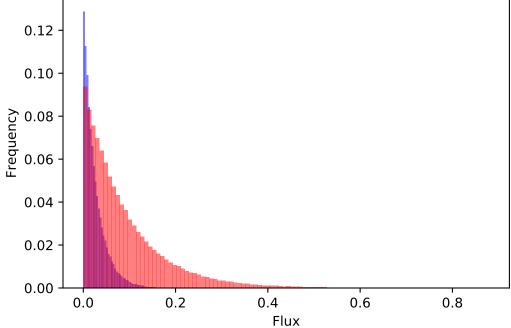


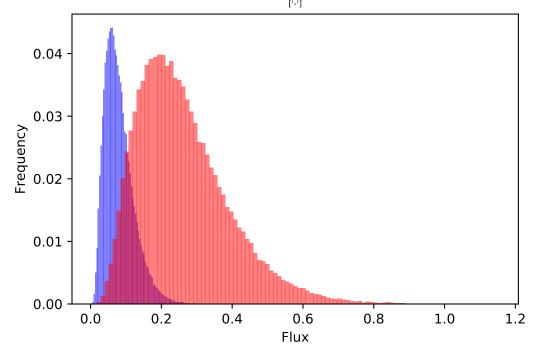


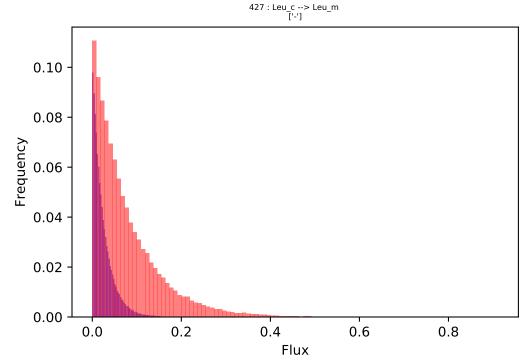


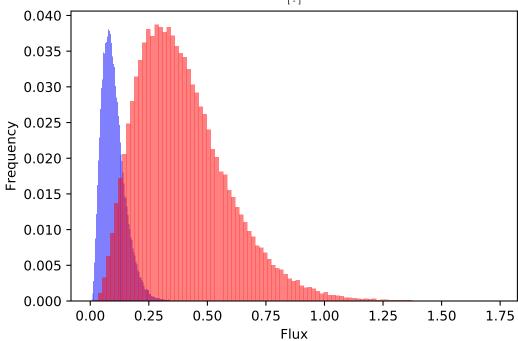


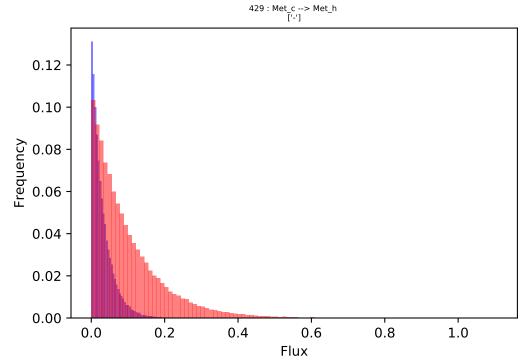


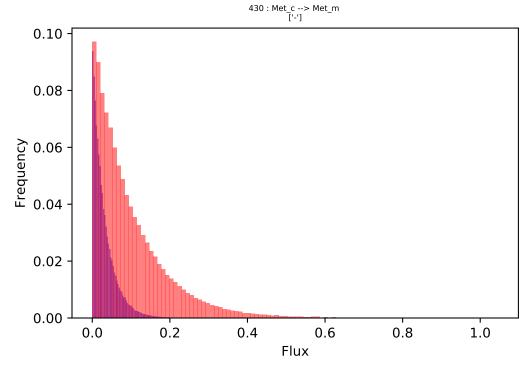


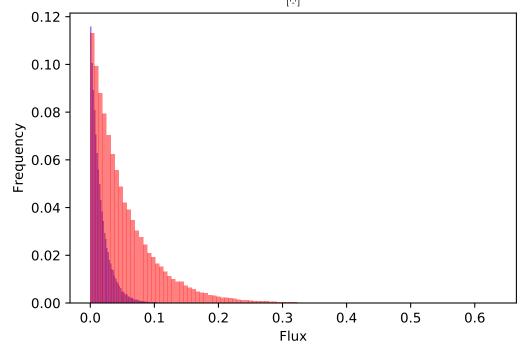


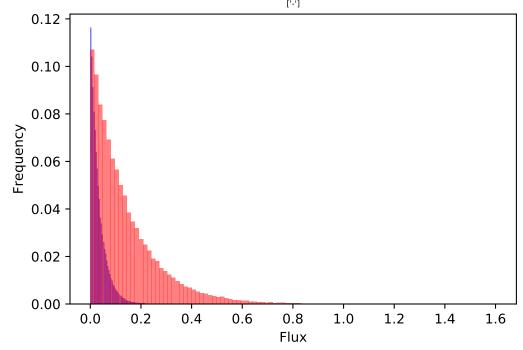




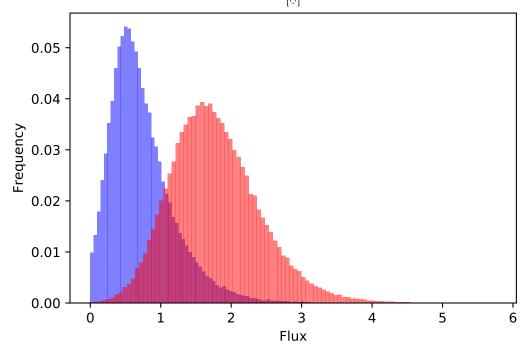


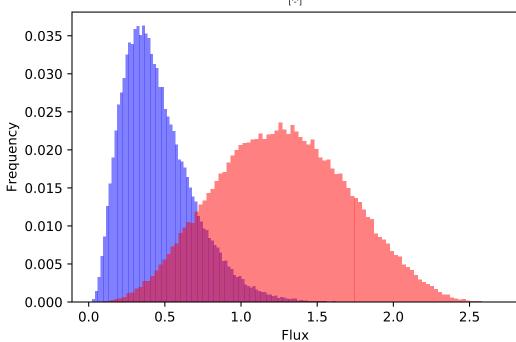


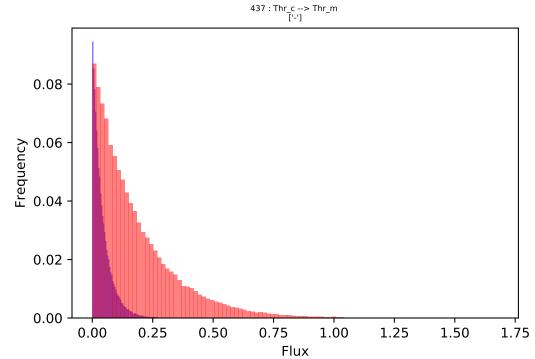


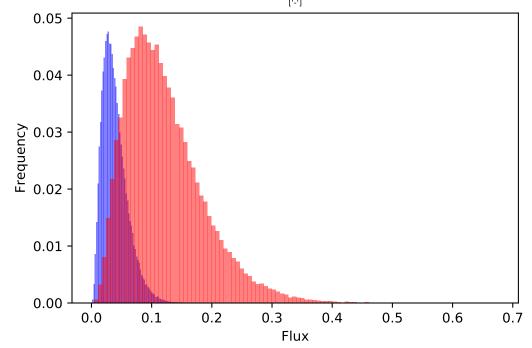


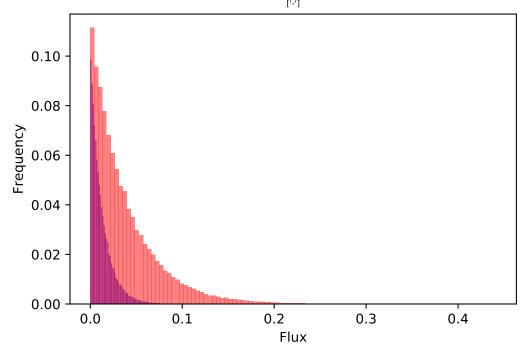


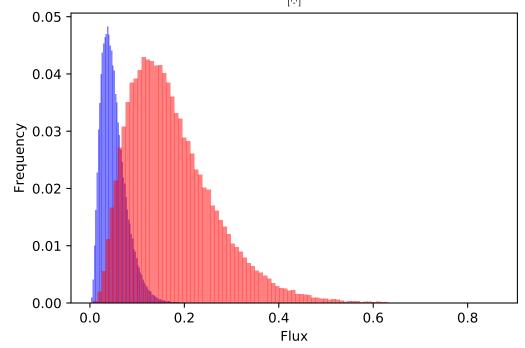


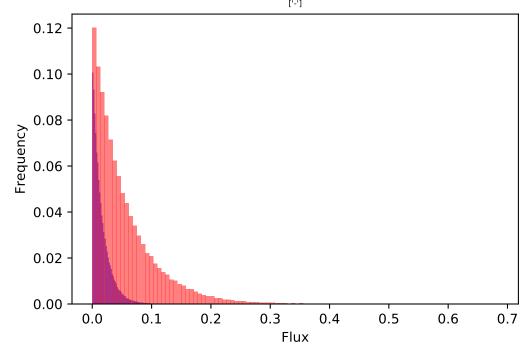


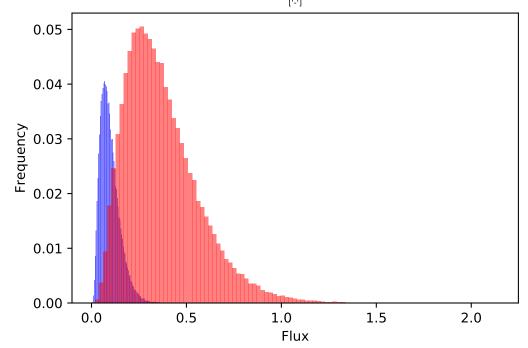


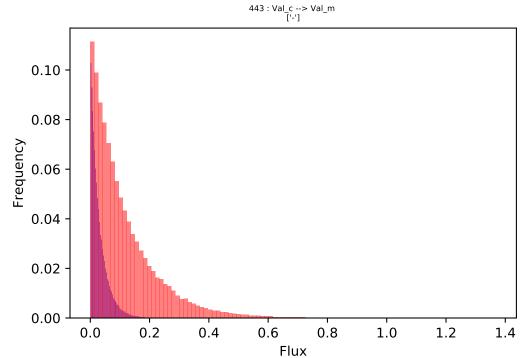


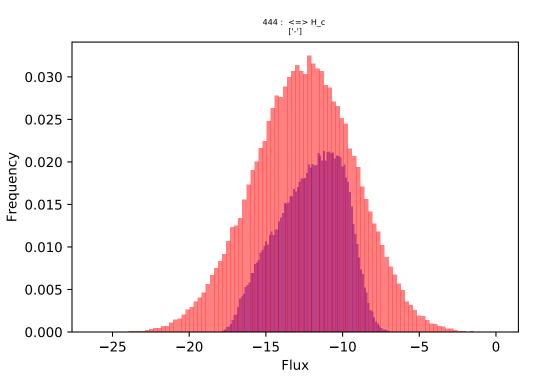




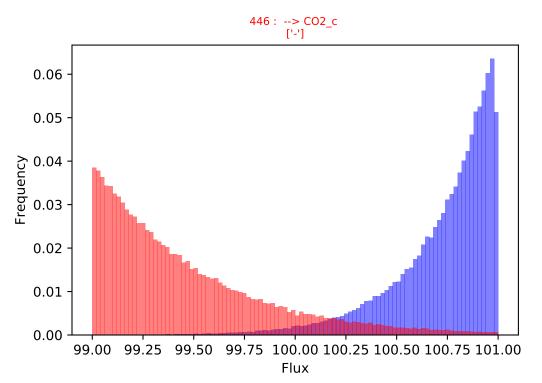


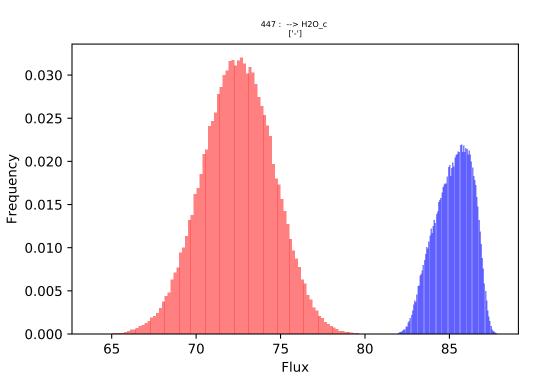


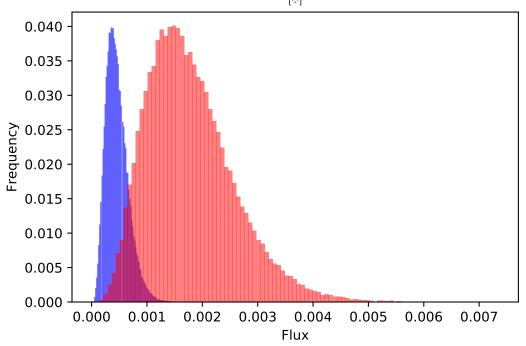


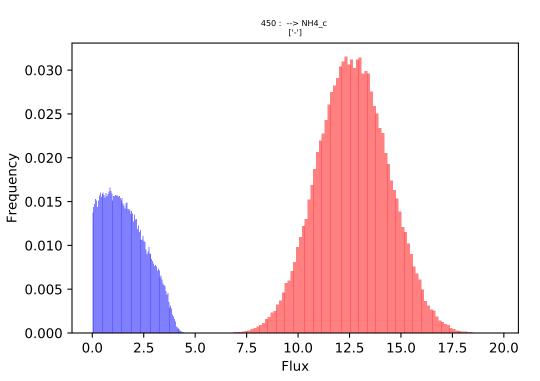


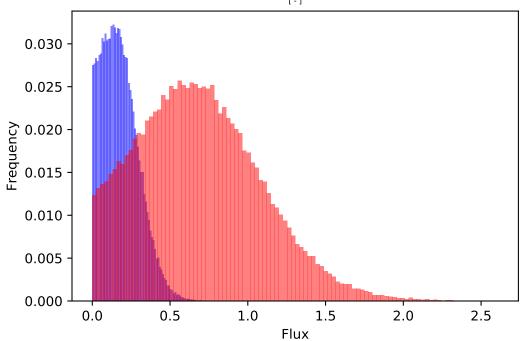
Flux

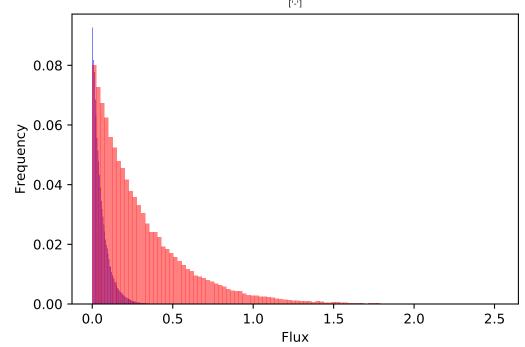


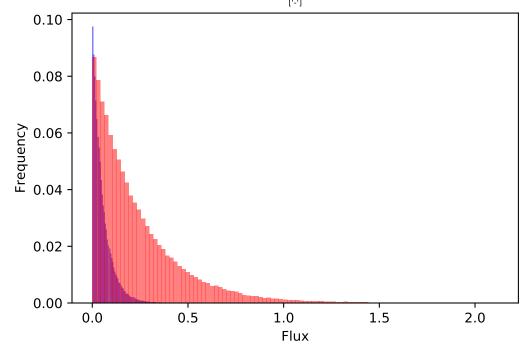


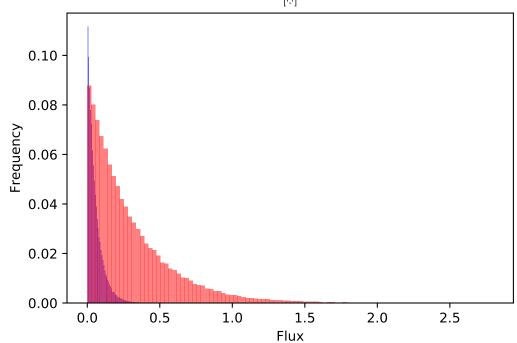


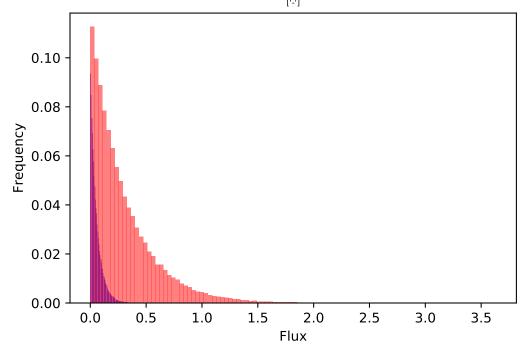


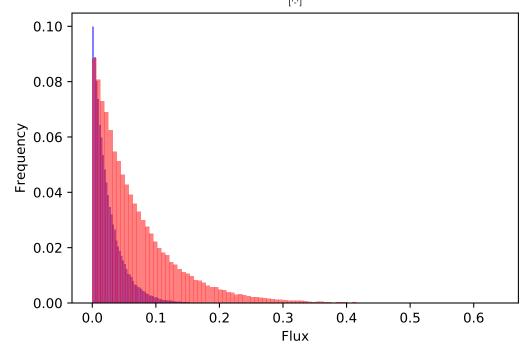


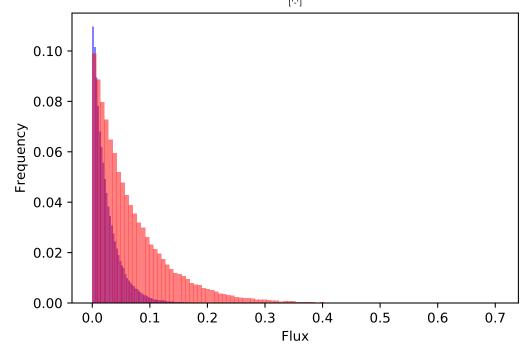


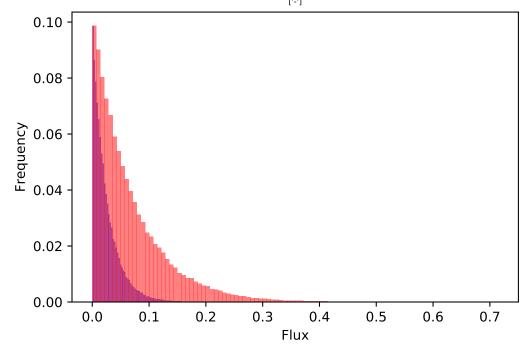


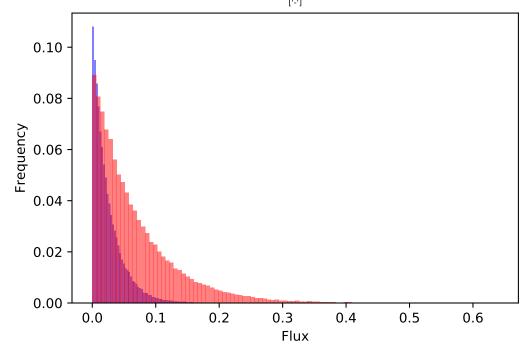


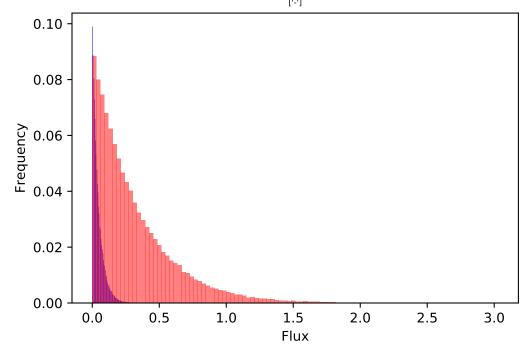












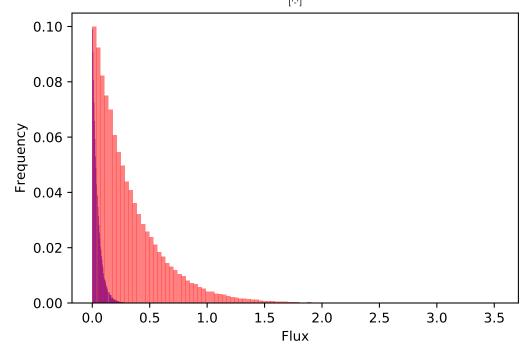
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1.5 Flux 2.0

2.5

0.0

0.5



1.5 Flux

0.0

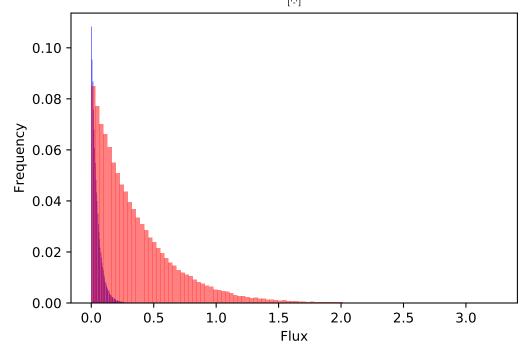
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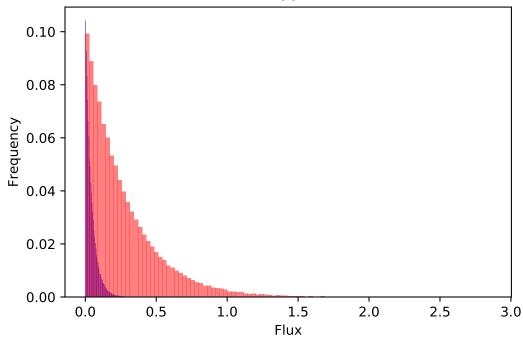
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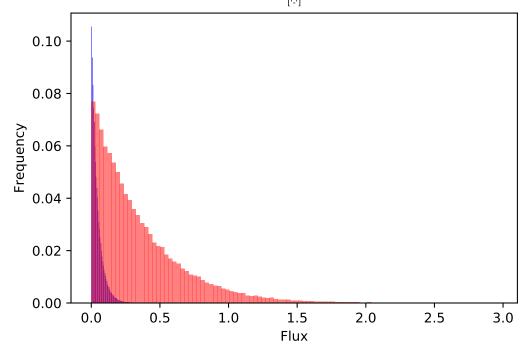
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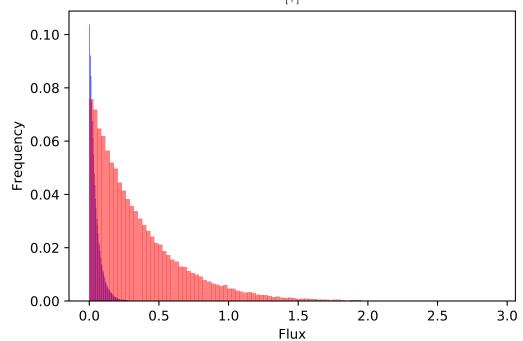
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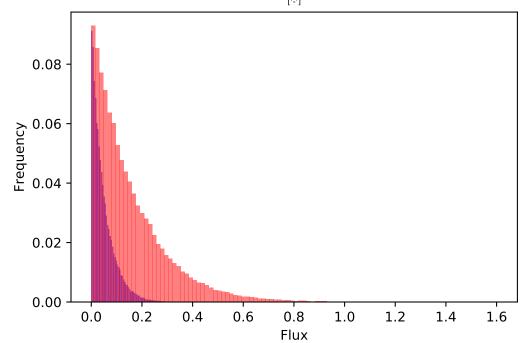
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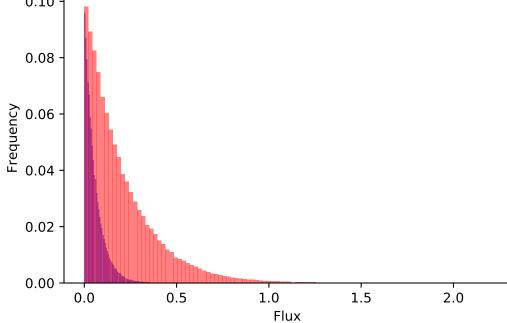


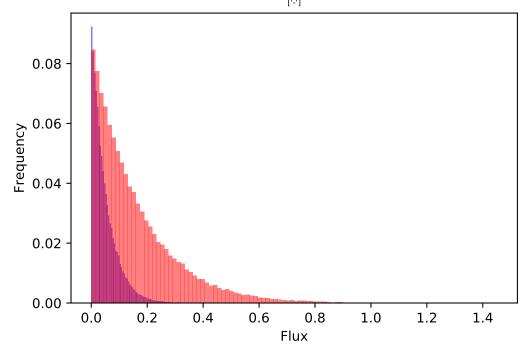


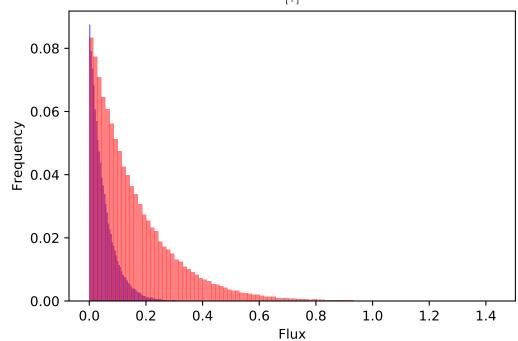












0.75

Flux

0.00

0.25

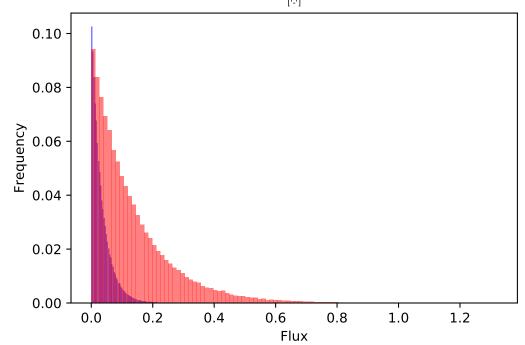
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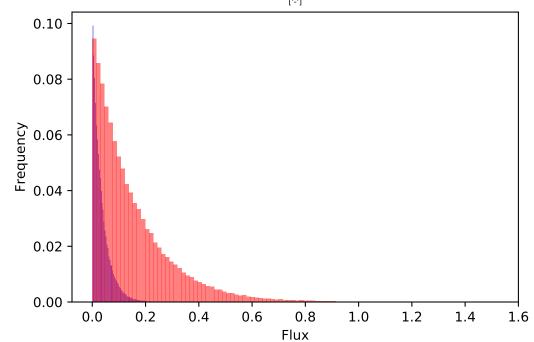
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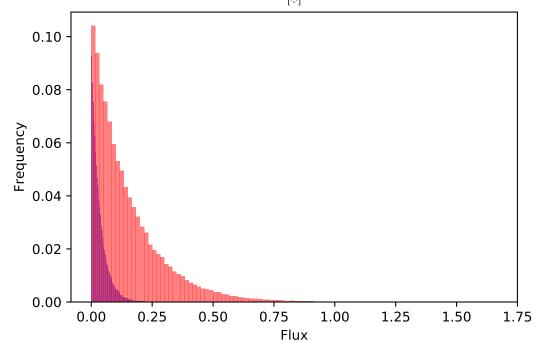
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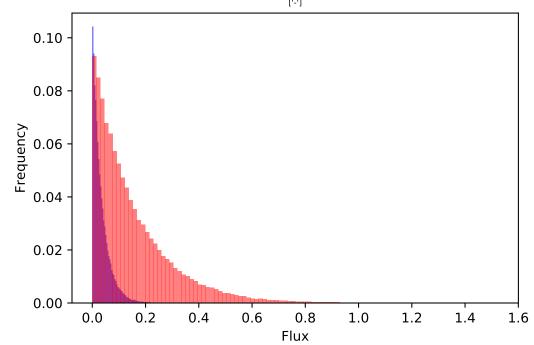
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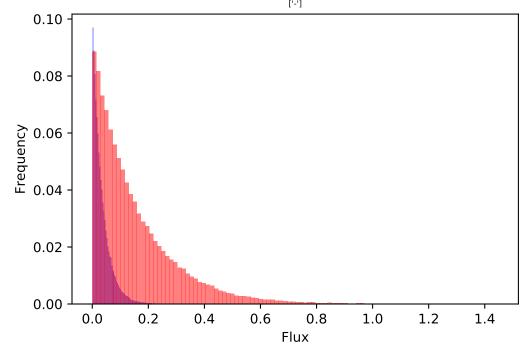
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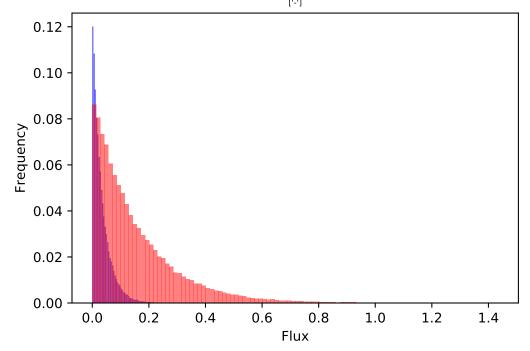


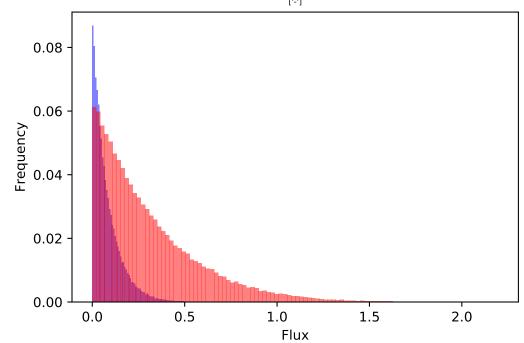




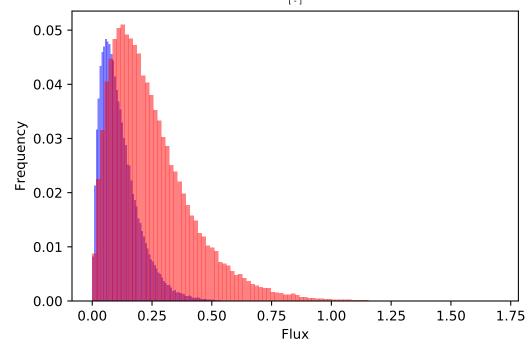


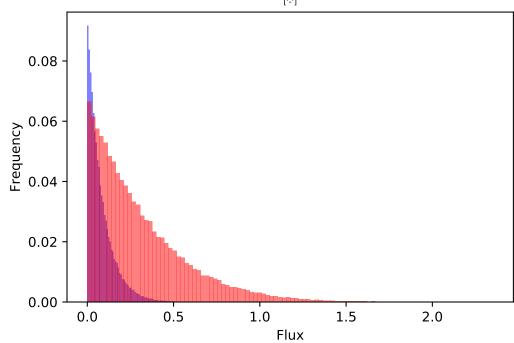


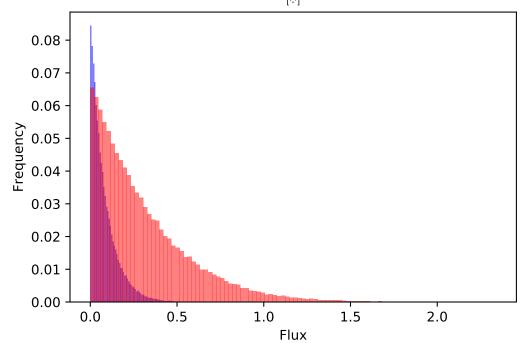




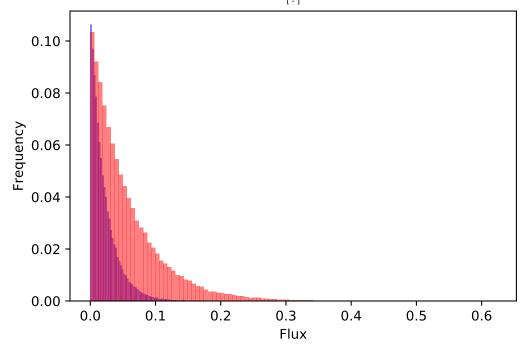


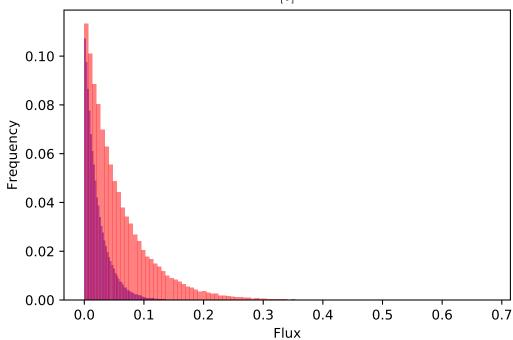


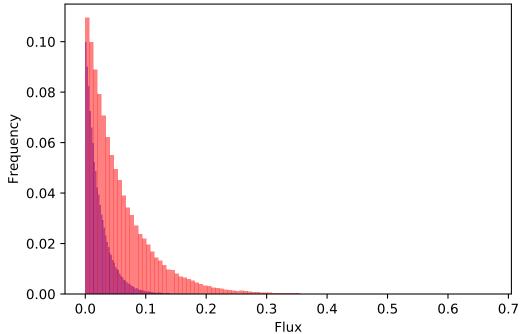




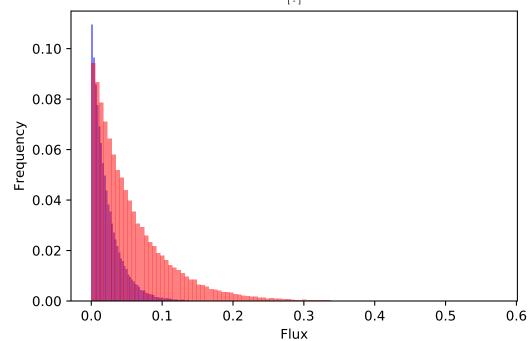


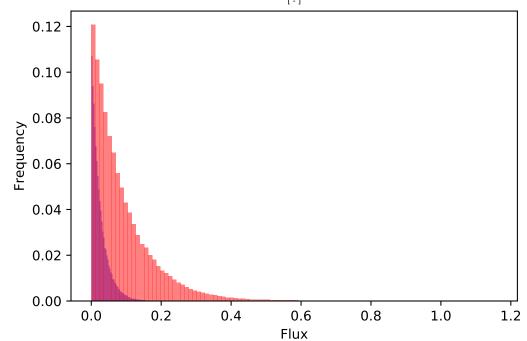




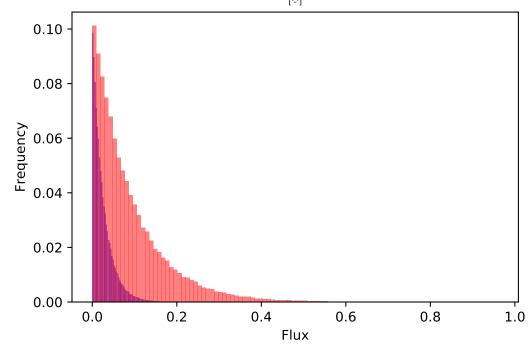




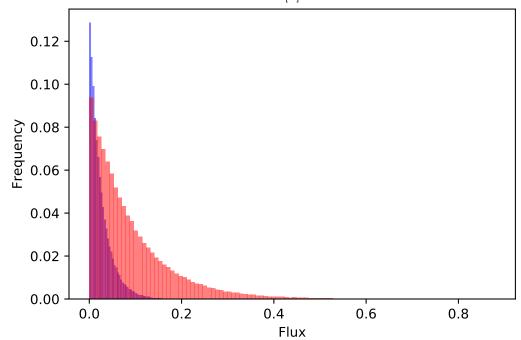




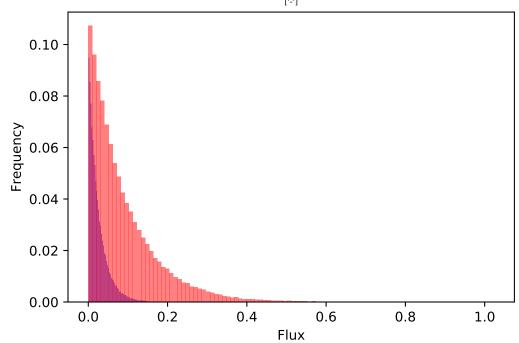


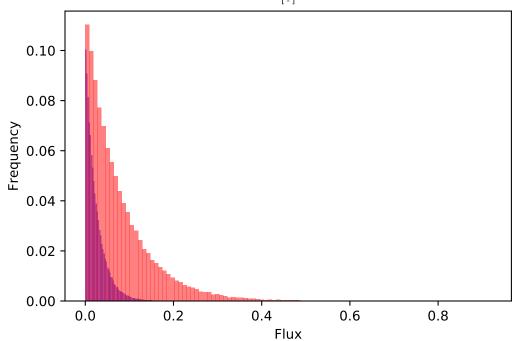




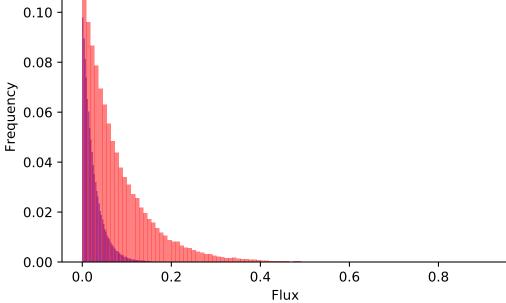








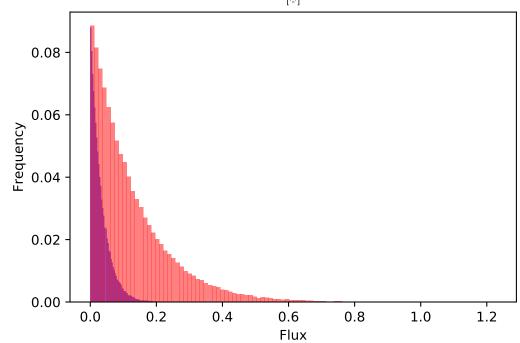
Flux

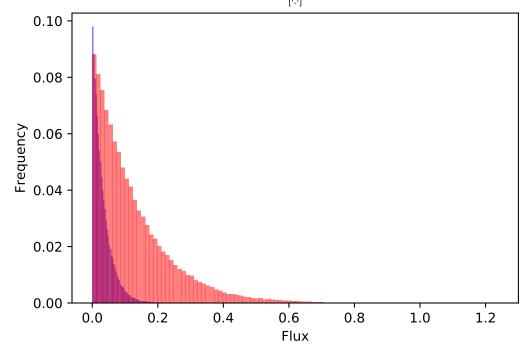


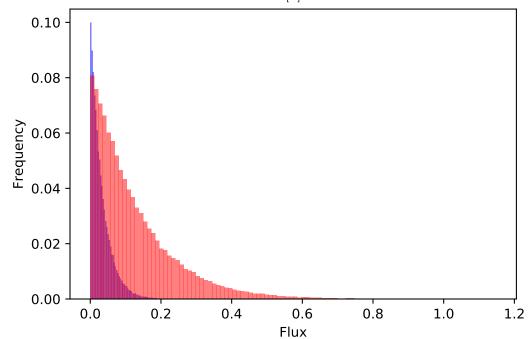
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Flux

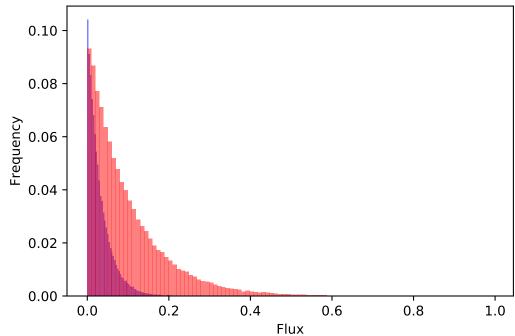
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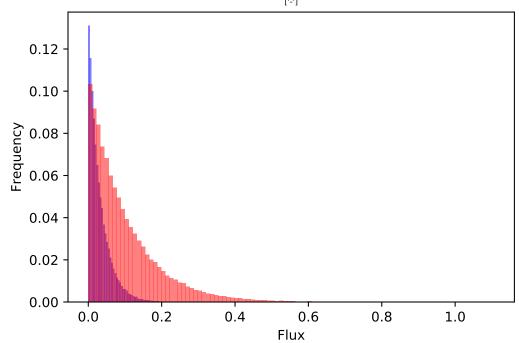


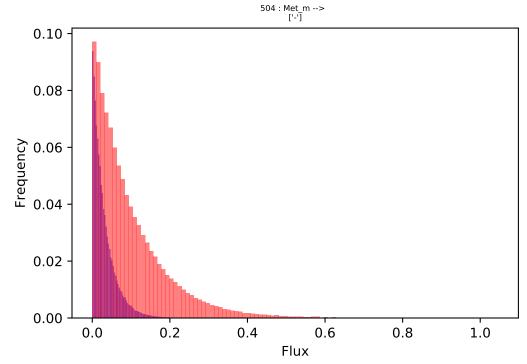


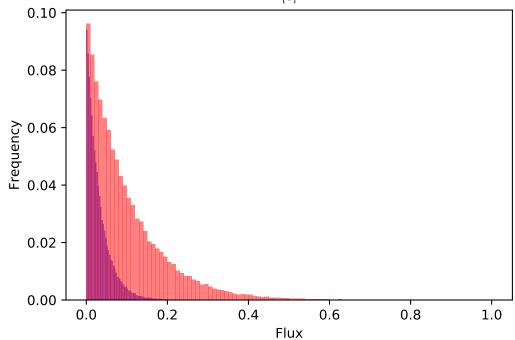


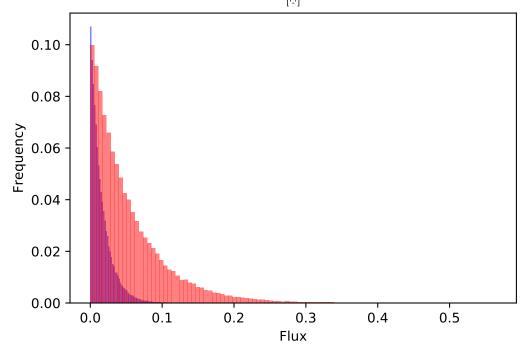
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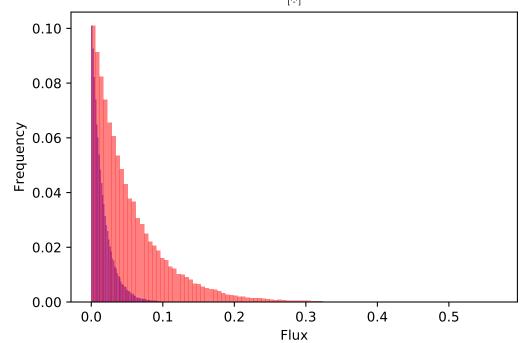


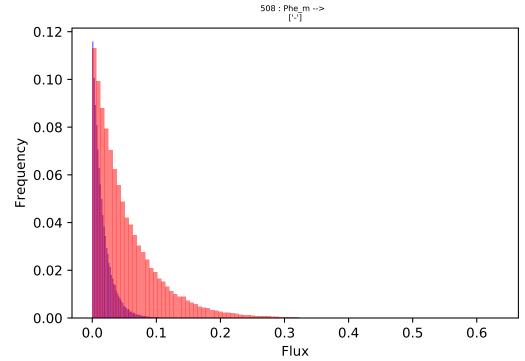


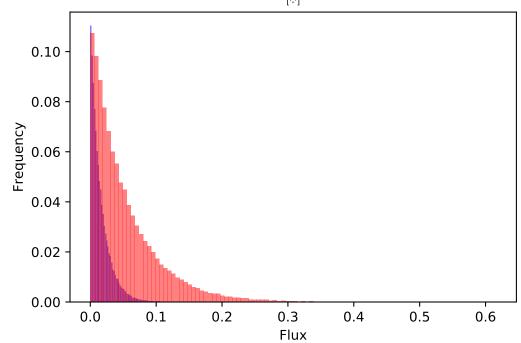




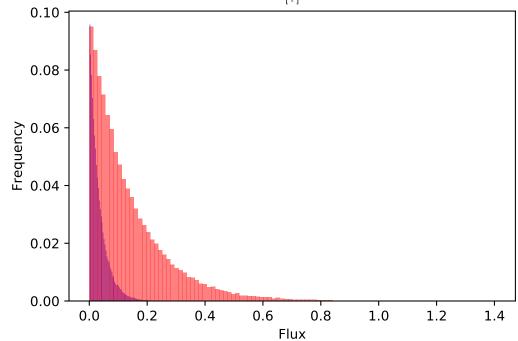




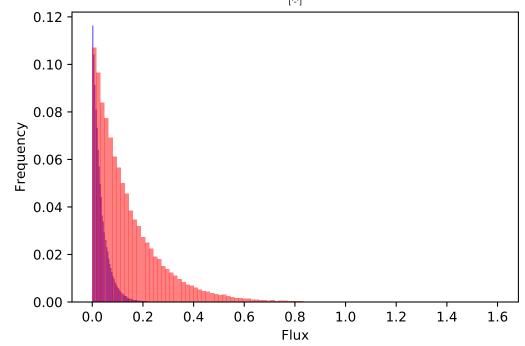


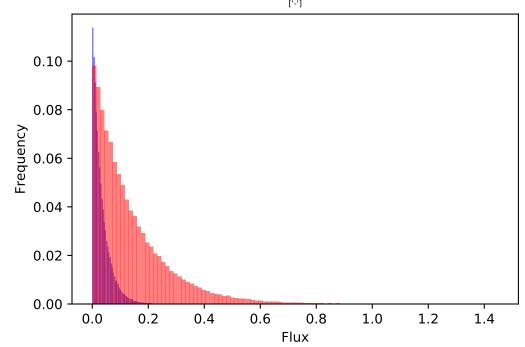




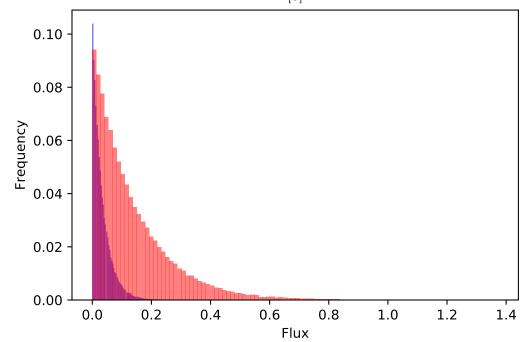




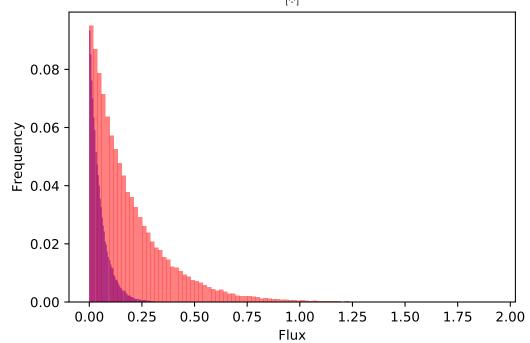








1.0 Flux



1.0

Flux

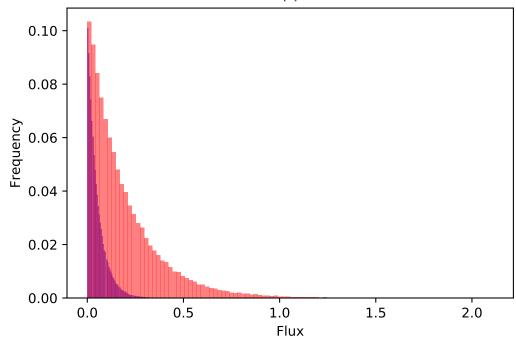
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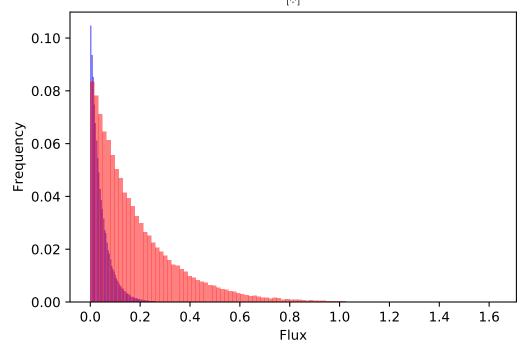
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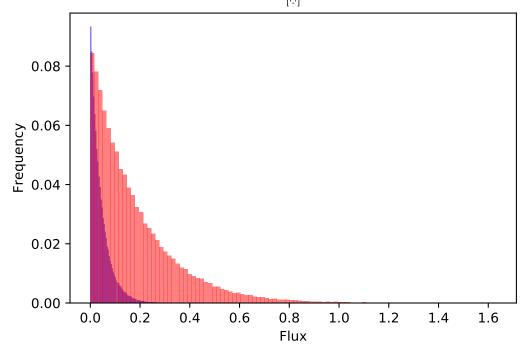
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2.5

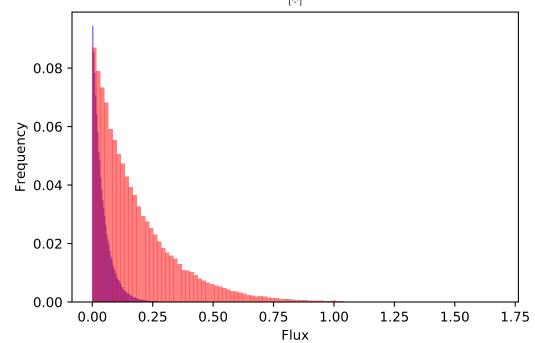
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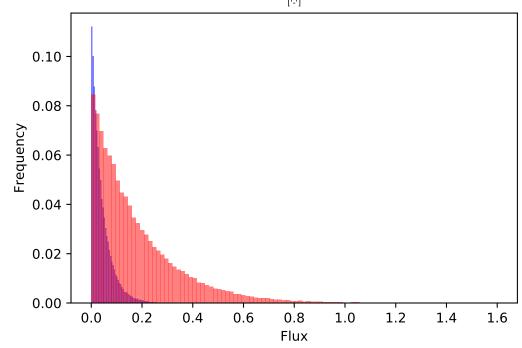




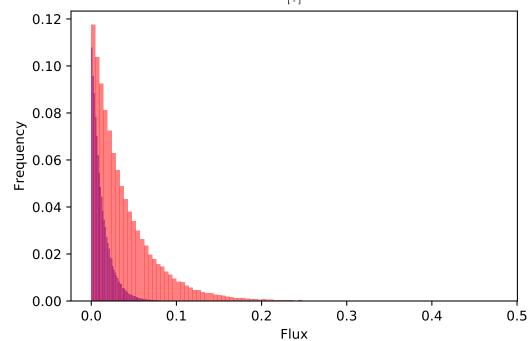




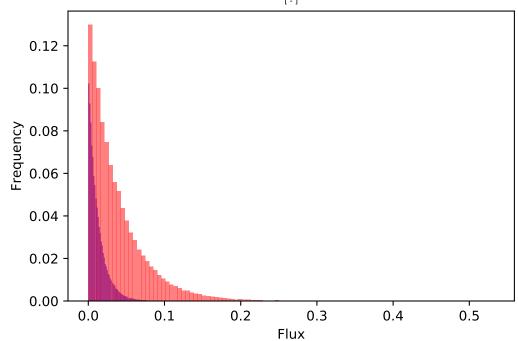


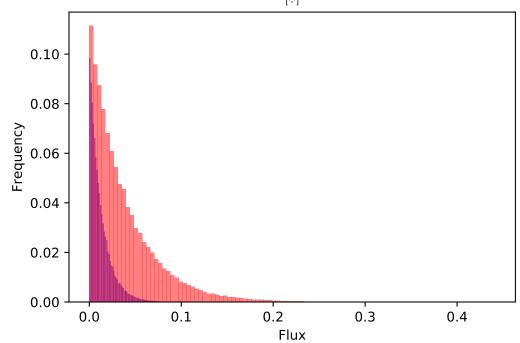




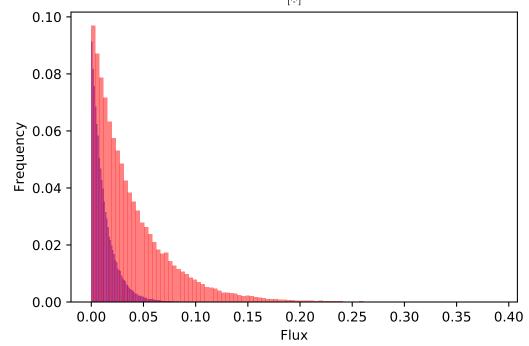




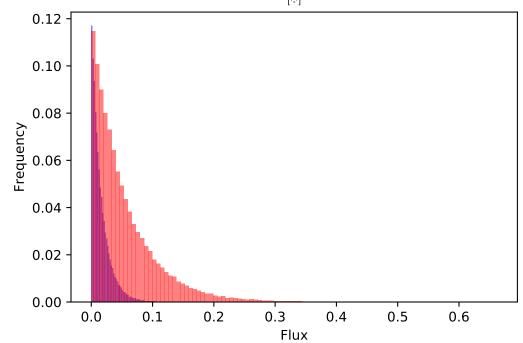


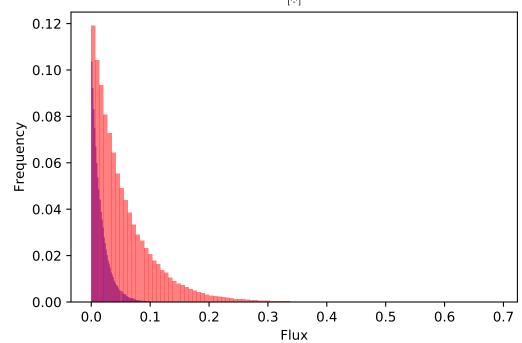


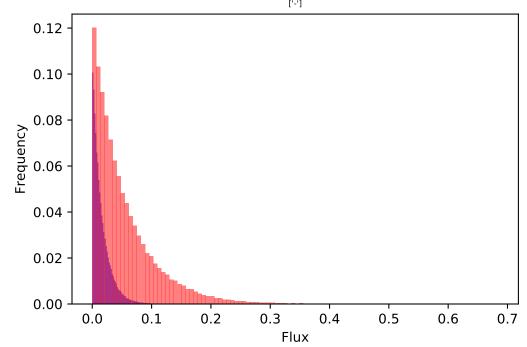


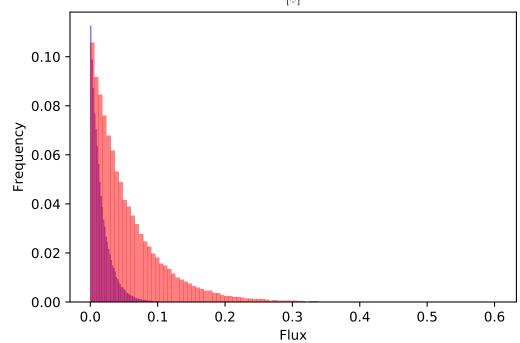


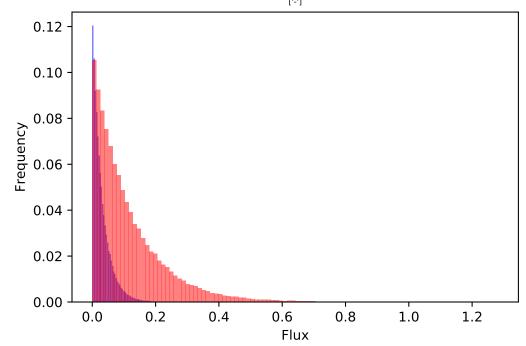




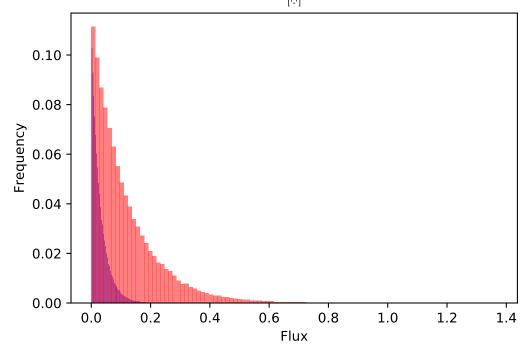


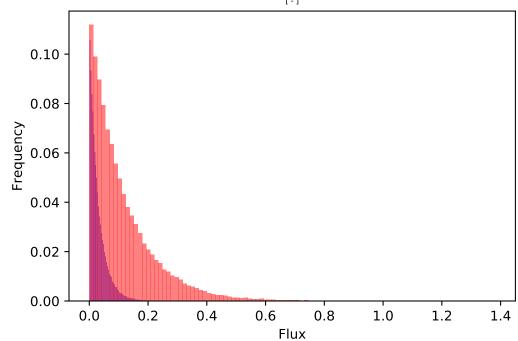


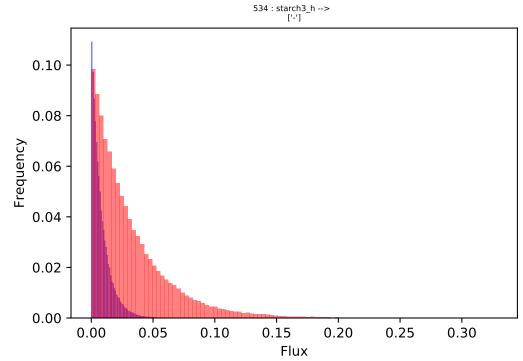


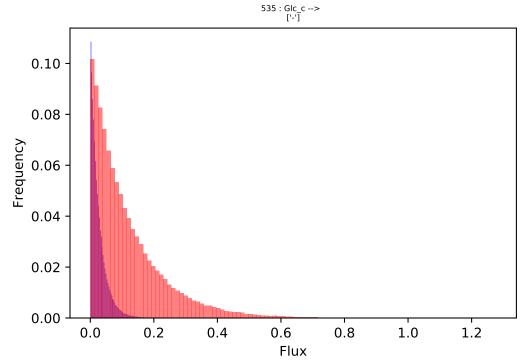


Flux

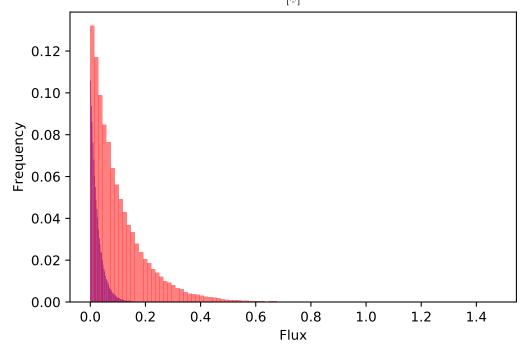


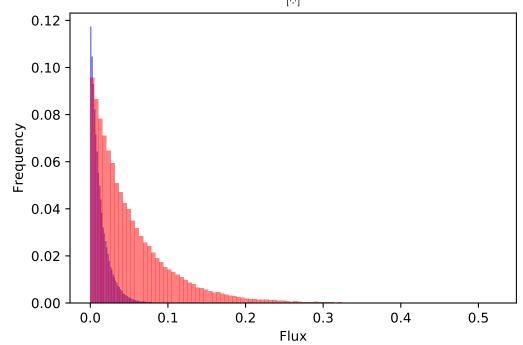


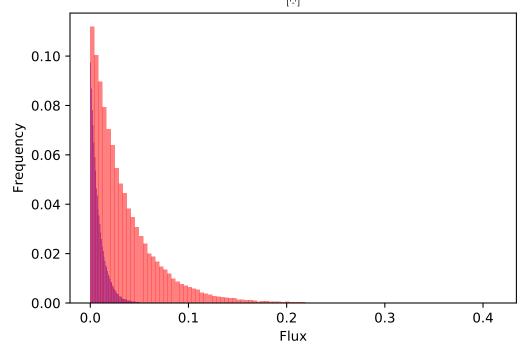


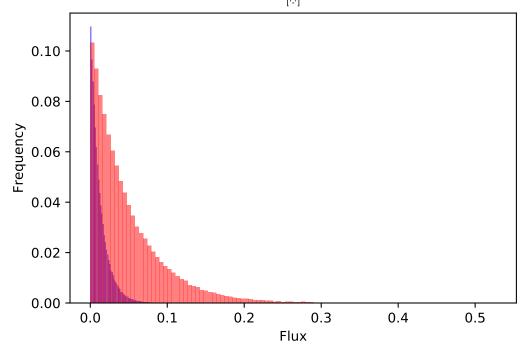


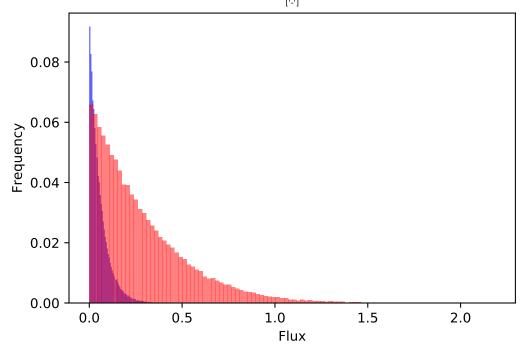


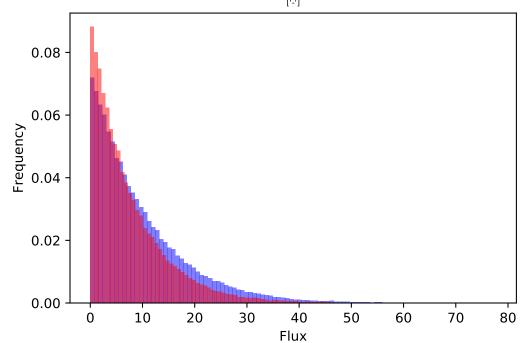


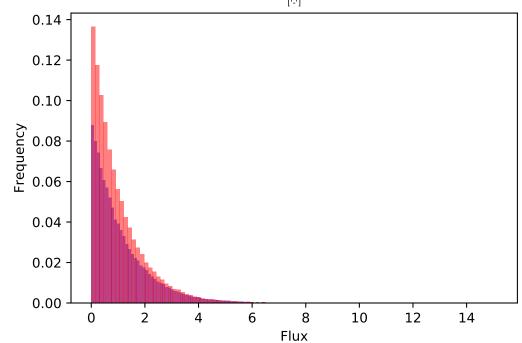












 $544: ATP_m + H2O_m --> ADP_m + H_m + Pi_m \\ ['-']$

