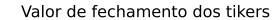
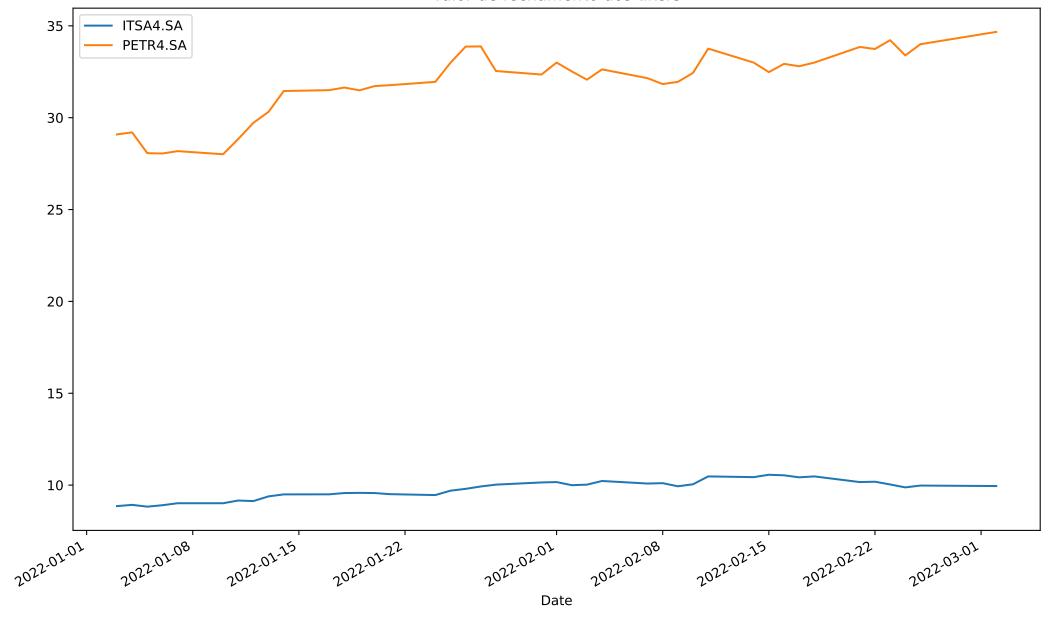
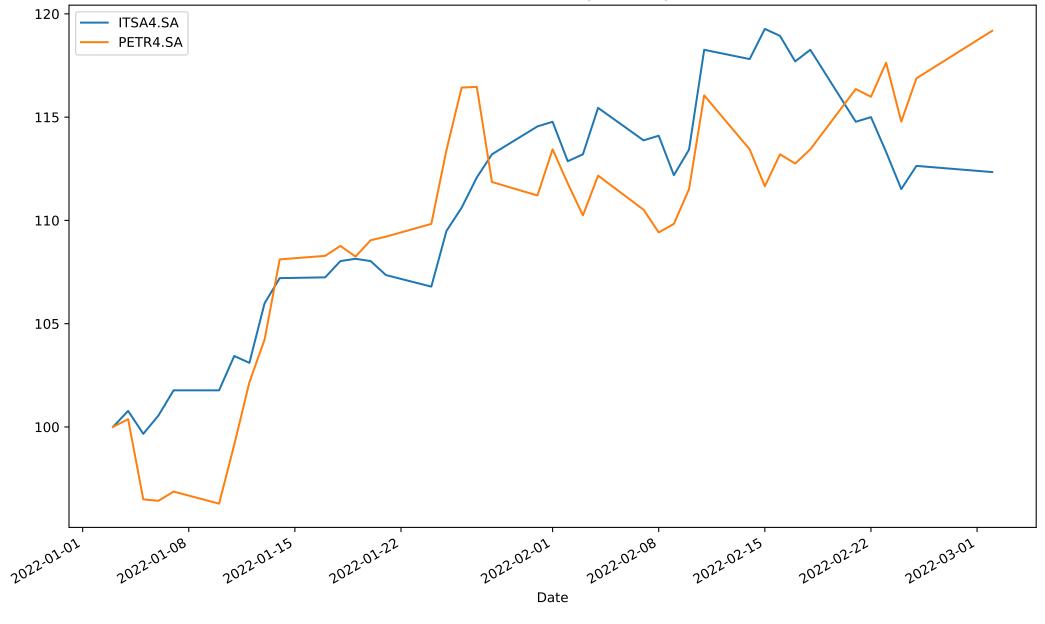
Valor de fechamento dos tikers ITSA4.SA PETR4.SA

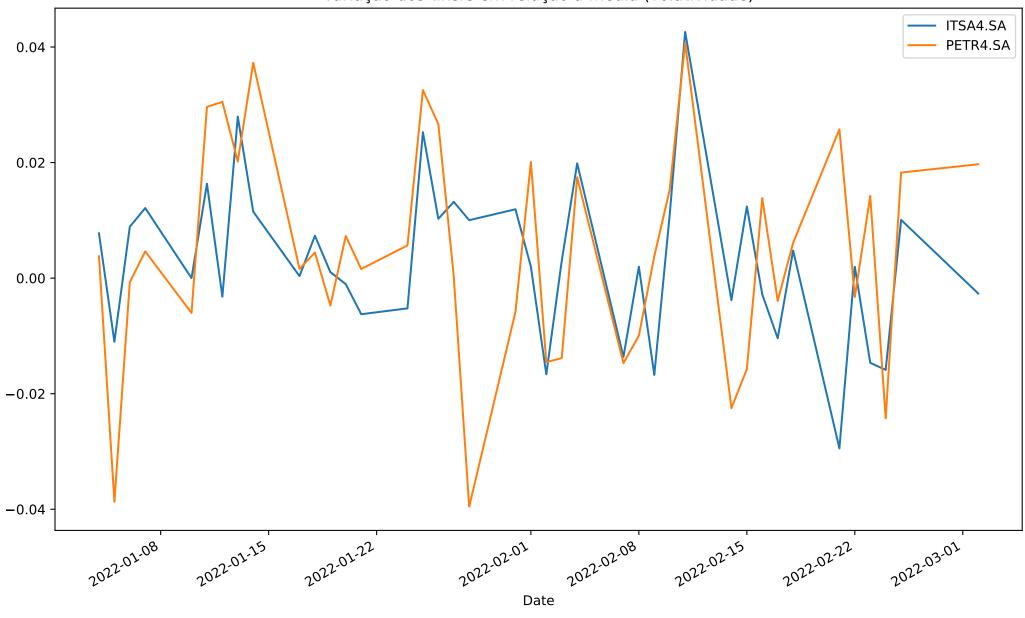
PETR4.3A	113A4.3A
29.09000015258789	8.85702133178711
29.200000762939453	8.925755500793457
28.06999969482422	8.82756233215332
28.049999237060547	8.906116485595703
28.18000030517578	9.014130592346191
28.010000228881836	9.014130592346191
28.84000015258789	9.161418914794922
29.719999313354492	9.13196086883545
30.31999969482422	9.387264251708984
31.450000762939453	9.495275497436523
31.5	9.498600959777832
31.639999389648438	9.568297386169434
31.489999771118164	9.578253746032715
31.719999313354492	9.568297386169434
31.770000457763672	9.50855827331543







Variação dos tikers em relação a média (volatividade)



%% de distribuição dos tikers (melhor caso)

70	% de distribuição d	os tikers (memor c	asu <i>)</i>
Return	Volatility	ITSA4.SA	PETR4.SA
0.8920107042778423	0.21231146816186522	0.5541188595692207	0.4458811404307793
0.8924414381386572	0.21240892215399626	0.552953103452641	0.4470468965473589
0.8934692413070632	0.21264355723848985	0.550171414016983	0.44982858598301706
0.9092924402544016	0.21662106945890386	0.5073468473069994	0.4926531526930006
0.9163231727670176	0.2186023723902786	0.488318579097225	0.5116814209027749
0.9241051241482402	0.22094299271299872	0.4672571807562112	0.5327428192437889
0.9248558893118062	0.22117683692560222	0.4652252785512481	0.5347747214487518
0.9262551262545959	0.22161638371843387	0.4614383252304311	0.5385616747695688
0.9299379113316973	0.22279622163427754	0.45147108183434265	0.5485289181656574
0.936051545404758	0.22482708747065866	0.4349248871569221	0.5650751128430779
0.9408839882636085	0.2264948132237995	0.42184616190864754	0.5781538380913523
0.9414195135383705	0.22668296385442308	0.4203967939312715	0.5796032060687285
0.9434928345422079	0.22741760522523202	0.41478547134501387	0.5852145286549861
0.9470513758719985	0.22870127180369954	0.405154486417438	0.594845513582562
0.9495742263454869	0.22962854032993005	0.3983265384935836	0.6016734615064164
0.9568333531787199	0.23237455660584247	0.378680134352384	0.621319865647616
0.956978991287757	0.2324308138780053	0.3782859732894579	0.6217140267105421
0.9603335500951556	0.23373907293357135	0.36920705518268826	0.6307929448173117
0.978538848728658	0.2412404474741004	0.3199354743601063	0.6800645256398937
0.9908691595322916	0.2466840901499757	0.28656420605194527	0.7134357939480547
1.0024720512187413	0.2520547116459396	0.2551616552334433	0.7448383447665566
1.0358280550287065	0.2686992462157816	0.16488557293855516	0.8351144270614449
1.038277496040986	0.269985854920275	0.15825630344749694	0.8417436965525031
1.0508060609765677	0.2766919150639042	0.1243484718737539	0.8756515281262461
1.0563507134551418	0.27972399723979424	0.10934219275518749	0.8906578072448124

%% de distribuição dos tikers (melhor caso)

70	% de distribuição do 	s tikers (memor c	.asu)
Return	Volatility	ITSA4.SA	PETR4.SA
0.7296186609847398	0.21570560205524503	0.9936234701300147	0.006376529869985267
0.7315753028211851	0.21519500889818108	0.9883279329171375	0.011672067082862532
0.7374082459705643	0.2137342209286097	0.972541411882581	0.027458588117419
0.7639303054501824	0.20829523434110644	0.9007610020393427	0.09923899796065731
0.7686986300255664	0.20753426682218665	0.8878558091922458	0.11214419080775422
0.7769436035075082	0.20637960403977076	0.8655412684932011	0.13445873150679882
0.7838126297538294	0.20557563927058045	0.8469506488784689	0.15304935112153112
0.7927677808275444	0.2047461331724033	0.8227140538744734	0.1772859461255266
0.7955537938643668	0.20453897320366407	0.8151738717945188	0.18482612820548122
0.7967109108323227	0.20446006980721543	0.8120422020891448	0.1879577979108552
0.8128869733526368	0.20379807844901449	0.7682626306629403	0.23173736933705968
0.8199139449246468	0.2037680959387041	0.7492445412199503	0.2507554587800495
0.8219771567671665	0.2037889793877832	0.7436605784902353	0.2563394215097648
0.834461454548675	0.2042023784166332	0.7098725533917172	0.29012744660828277
0.8450754189429563	0.20493941862043386	0.6811464767132253	0.3188535232867747
0.8489209059439453	0.20529318151549858	0.6707388900327881	0.32926110996721186
0.849546522843873	0.2053550707562976	0.669045694317117	0.330954305682883
0.851317576470352	0.20553683281776866	0.6642524407893994	0.3357475592106006
0.8516293036159592	0.205569827283384	0.6634087694188505	0.33659123058114954
0.8525203809529491	0.2056657942908238	0.6609971204856175	0.3390028795143824
0.8756454801510898	0.20899973992304857	0.598410385870091	0.401589614129909
0.8760459721500653	0.20907154704072922	0.5973264775918709	0.4026735224081291
0.8796353411454295	0.20973603925480708	0.5876120593822347	0.41238794061776524
0.8856906111901076	0.21094161374355763	0.5712238235496252	0.42877617645037475
0.8880632560440684	0.21144262798723756	0.5648023983899149	0.4351976016100852

Indicador de retorno e volatividade segundo Markowitz

