

1 Summary

Num	Item	Repeatability	Reproducibility	NDC	RR	Result
1	SFR_55lp_60IH_BL_H	12.34058778677016	0.3547257895522283	4.0	13.394	Adequate
2	SFR_55lp_60IH_TL_H	16.885704260232696	0.0	4.0	13.404	Adequate
3	SFR_55lp_60IH_TR_V	13.61525178559789	0.36215795822801833	4.0	12.368	Adequate
4	SFR_55lp_30IH_TR_H	28.50546124941645	0.0	3.0	10.992	Adequate
5	SFR_55lp_Center_V	43.77884195420773	2.942569617237428	2.0	9.353	Excellent
6	SFR_55lp_30IH_BL_V	24.47446252330401	0.0	3.0	8.699	Excellent
7	SFR_55lp_30IH_TL_V	36.472523417017925	0.0	2.0	9.782	Excellent
8	corner_balance_IH60_V	36.58448400647751	0.1671191819644007	2.0	40.313	Unacceptable
9	SFR_55lp_30IH_BR_V	17.91602197830373	0.0	4.0	15.856	Adequate
10	SFR_55lp_60IH_BR_V	16.695878403711202	0.0	4.0	17.361	Adequate
11	SFR_55lp_60IH_TR_H	16.06306053861931	0.0	4.0	12.157	Adequate
12	SFR_55lp_30IH_BR_H	19.256013743210364	0.30628637914180923	3.0	14.829	Adequate
13	corner_balance_IH60_H	34.70510004257622	0.0	2.0	43.913	Unacceptable
14	SFR_55lp_30IH_TL_H	30.24829087104325	0.0	3.0	9.62	Excellent
15	SFR_55lp_Center_H	50.913775692374486	0.37482402953259236	2.0	10.377	Adequate
16	SFR_55lp_30IH_BL_H	27.74937557523832	0.5559976139624746	3.0	9.705	Excellent
17	SFR_55lp_60IH_BR_H	18.74987224087777	0.0	3.0	18.448	Adequate
18	SFR_55lp_30IH_TR_V	14.690581199719682	2.6412459627642355	4.0	10.981	Adequate
19	SFR_55lp_60IH_TL_V	23.51758146292154	0.07800528866986361	3.0	13.774	Adequate
20	SFR_55lp_60IH_BL_V	7.7408892398459255	0.5844288783864264	5.0	10.261	Adequate
21	SFR_55lp_60IH_BL_H	11.453921123446294	0.0	4.0	8.271	Excellent
22	SFR_55lp_60IH_TL_H	10.049331783746698	0.0	5.0	11.484	Adequate
23	SFR_55lp_60IH_TR_V	22.071889323069954	0.26725643049291425	3.0	16.534	Adequate
24	SFR_55lp_30IH_TR_H	20.11485954177797	0.0	3.0	12.293	Adequate
25	SFR_55lp_Center_V	40.28746747200509	0.0	2.0	9.141	Excellent
26	SFR_55lp_30IH_BL_V	33.530439276499685	1.8918730462856963	2.0	8.445	Excellent
27	SFR_55lp_30IH_TL_V	37.49013941999948	0.0	2.0	12.863	Adequate
28	corner_balance_IH60_V	26.65521850826305	0.0	3.0	30.037	Unacceptable
29	SFR_55lp_30IH_BR_V	18.347958168969786	0.05726393789090399	3.0	11.111	Adequate
30	SFR_55lp_60IH_BR_V	23.737263199328734	0.0	3.0	18.956	Adequate
31	SFR_55lp_60IH_TR_H	16.429148198545036	0.0	4.0	13.137	Adequate
32	SFR_55lp_30IH_BR_H	24.362593664272495	0.0	3.0	13.246	Adequate
33	corner_balance_IH60_H	31.561895466224204	0.0	3.0	33.658	Unacceptable
34	SFR_55lp_30IH_TL_H	43.20521781455412	0.0	2.0	11.447	Adequate
35	SFR_55lp_Center_H	34.03634488096286	3.7368562738178133	2.0	9.7	Excellent

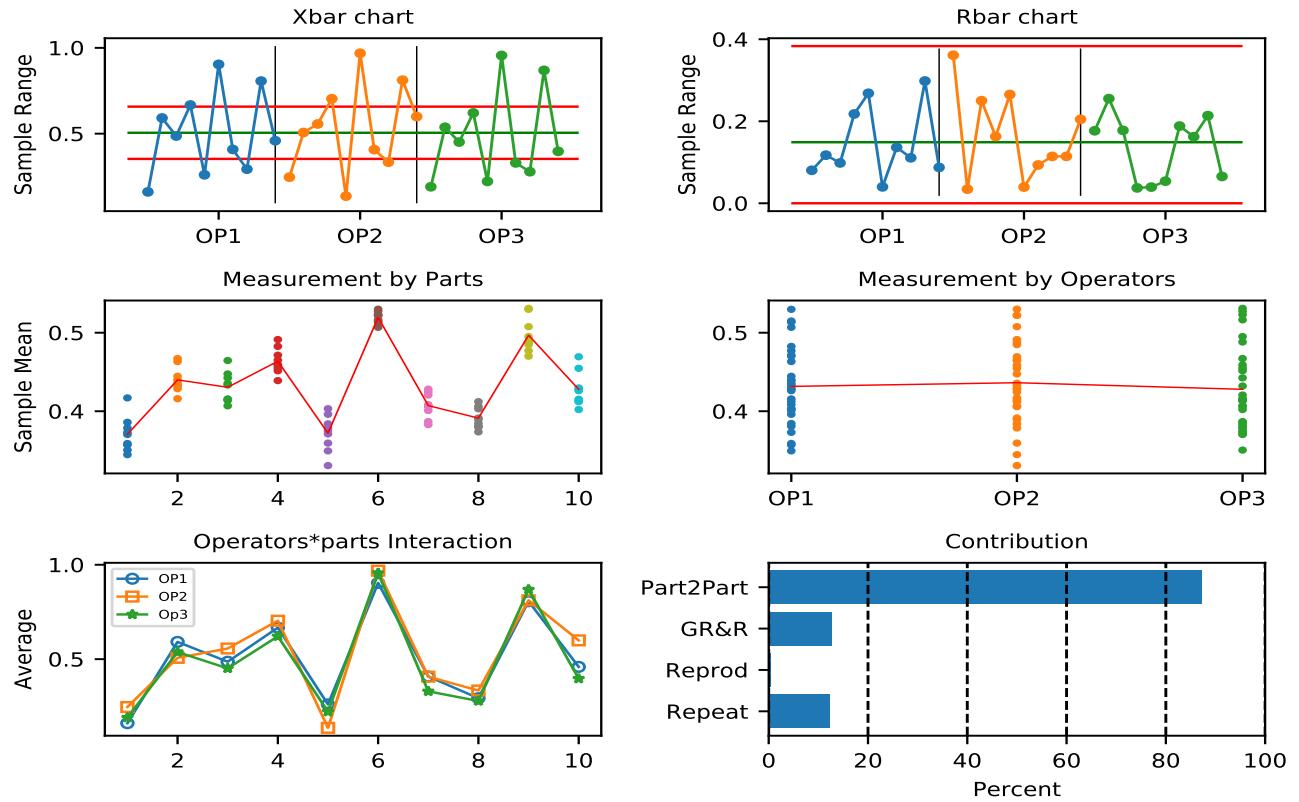
36	SFR_55lp_30IH_BL_H	25.645986431919237	0.0	3.0	9.598	Excellent
37	SFR_55lp_60IH_BR_H	14.649945259168573	0.0	4.0	18.873	Adequate
38	SFR_55lp_30IH_TR_V	13.418915099712988	0.16022367975471846	4.0	11.005	Adequate
39	SFR_55lp_60IH_TL_V	13.697137995880624	0.09326036165444039	4.0	11.389	Adequate
40	SFR_55lp_60IH_BL_V	32.90796061863773	0.0	3.0	10.603	Adequate
41	max_delta_B_Gb	0.7782994954194626	0.0	16.0	0.851	Excellent
42	color_b_g_ratio	0.12971390703157695	0.12410509582192768	28.0	1.47	Excellent
43	max_delta_R_Gr	0.11079691640396332	0.0	43.0	1.935	Excellent
44	color_gr_gb_ratio	1.790976293000325	0.016237547448236446	11.0	0.703	Excellent
45	color_r_g_ratio	0.08208227092864118	0.005221560253519794	48.0	0.601	Excellent
46	defect_cluster	0.0	0.0	0.0	0.0	Excellent
47	OC_center_x	0.004188285567759382	0.11806305128172095	41.0	12.768	Adequate
48	OC_center_y	0.06262743182195332	0.04700920568401742	43.0	187.606	Unacceptable
49	OC_shift_r_um	0.04756230056206136	0.06164156852162161	43.0	617.055	Unacceptable
50	defect_singlet	0.0	0.0	0.0	0.0	Excellent
51	OC_shift_x	0.004188285567759397	0.11806305128173607	41.0	911.971	Unacceptable
52	defect_col	5.335024885887192	0.0	6.0	0.004	Excellent
53	defect_couplet	0.0	0.0	0.0	0.0	Excellent
54	OC_shift_y	0.06262743182195334	0.04700920568399477	43.0	14.431	Adequate
55	roiTL_mean	0.25098402105820666	1.514699252765285	11.0	40.647	Unacceptable
56	blemish_blackspot	0.0	0.0	0.0	0.0	Excellent
57	RI_balance	0.02707903687903981	0.003338458881325706	81.0	0.001	Excellent
58	blemish_RU	0.0	0.0	0.0	0.0	Excellent
59	OC_shift_r	0.04756542141771269	0.06163613845666198	43.0	0.343	Excellent
60	defect_row	18.921609469945462	0.01742728128797887	3.0	0.169	Excellent
61	roiCenter_mean	0.14042319888613436	1.0312231878328078	13.0	1.287	Excellent
62	roiTR_mean	0.1994197506684786	1.6539401360001755	11.0	335.737	Unacceptable
63	roiBR_mean	0.5138743768713299	4.598530857358904	7.0	374.536	Unacceptable
64	RI	0.01999130274831534	0.10537183234096645	40.0	0.002	Excellent
65	roiBL_mean	0.38402719597704943	2.6987722057849775	8.0	0.994	Excellent
66	defect_cluster	0.0	0.0	0.0	0.0	Excellent
67	OC_center_x	0.003917880790789419	0.01215509745208187	112.0	0.0	Excellent
68	OC_center_y	0.007626946638931931	0.023662353350829318	80.0	95.731	Unacceptable
69	OC_shift_r_um	0.007065637214490612	0.014332748360828554	97.0	263.576	Unacceptable
70	defect_singlet	0.0	0.0	0.0	0.0	Excellent
71	OC_shift_x	0.003917880790789419	0.012155097452083175	112.0	341.897	Unacceptable
72	defect_col	9.38764857295957	0.0	5.0	0.004	Excellent
73	defect_couplet	0.0	0.0	0.0	0.0	Excellent

74	OC_shift_y	0.007626946638931943	0.023662353350821057	80.0	7.364	Excellent
75	roiTL_mean	0.13591498123156823	1.866065318213726	10.0	46.183	Unacceptable
76	blemish_blackspot	0.0	0.0	0.0	0.0	Excellent
77	RI_balance	0.021571242406505056	0.00588673181653226	86.0	0.001	Excellent
78	blemish_RU	0.0	0.0	0.0	0.0	Excellent
79	OC_shift_r	0.007065357533117969	0.014332635634837576	97.0	0.146	Excellent
80	defect_row	9.64340982586502	0.23215244474600644	5.0	0.169	Excellent
81	roiCenter_mean	0.23130431182486694	1.7356894003113008	10.0	1.117	Excellent
82	roiTR_mean	0.25804063860512194	3.030530738251833	8.0	346.796	Unacceptable
83	roiBR_mean	0.1303525018626289	1.3932659741292692	12.0	310.547	Unacceptable
84	RI	0.02078014967394659	0.18119805542696793	32.0	0.002	Excellent
85	roiBL_mean	0.24017315772018644	3.284224687903022	8.0	0.898	Excellent
86	defect_row	70.13643065547693	1.896934404616705	1.0	inf	Unacceptable
87	defect_col	79.04510980363855	5.645527916218474	1.0	0.026	Excellent
88	defect_singlet	1.2511294809076718	0.20350148088313594	12.0	10.193	Adequate
89	defect_couplet	0.0	0.0	0.0	0.0	Excellent
90	defect_row	69.57605209792875	2.8881027878436503	1.0	6.087	Excellent
91	defect_cluster	0.0	0.0	0.0	0.0	Excellent
92	defect_col	64.53431142198984	0.0	2.0	2.266	Excellent
93	defect_singlet	13.60231021287066	10.210123263432274	3.0	18.761	Adequate
94	defect_couplet	0.0	0.0	0.0	0.0	Excellent
95	defect_row	68.83709018388983	12.530876663205856	1.0	6.785	Excellent
96	defect_cluster	0.0	0.0	0.0	0.0	Excellent
97	defect_col	66.70967329290337	0.0	1.0	1.877	Excellent
98	SFR_60IH_TL_V	20.75216170010106	0.0	3.0	26.715	M marginally Acceptable
99	SFR_60IH_TR_H	47.625862824974654	0.685287095662746	2.0	0.0	Excellent
100	SFR_30IH_TL_H	35.685800590093756	2.6999584634478957	2.0	14.604	Adequate
101	SFR_30IH_TL_V	31.02686641869558	1.4036248537361053	3.0	13.184	Adequate
102	SFR_60IH_TR_V	42.82292548547256	0.38298391734011966	2.0	16.509	Adequate
103	SFR_60IH_TL_H	17.04584709506741	0.855820213685029	4.0	19.492	Adequate
104	SFR_60IH_BR_V	26.66669140092162	1.3728737173345251	3.0	44.367	Unacceptable
105	lower_horiz_theta	0.08766028676195485	0.2165014762568333	26.0	0.0	Excellent
106	SFR_30IH_BL_H	56.477917540644974	2.0343116096122236	2.0	20.703	M marginally Acceptable
107	SFR_30IH_BL_V	26.226377859935248	1.315061751426538	3.0	24.498	M marginally Acceptable
108	tilt_x	0.030899586932494384	0.002168642655829271	78.0	8.679	Excellent
109	tilt_y	0.12105020675948706	0.008491307727606054	40.0	8.675	Excellent
110	SFR_60IH_BR_H	49.92407034655507	0.25843162110316054	2.0	24.461	M marginally Acceptable
111	upper_horiz_theta	0.24033398146122378	0.19493973717741223	22.0	12.35	Adequate

112	SFR_30IH_TR_V	32.771540807360836	0.7811139852932991	2.0	13.871	Adequate
113	SFR_80IH_BL_H	33.67199091790161	2.5138851732859924	2.0	15.53	Adequate
114	SFR_80IH_BL_V	12.314621926090236	0.20107289425345423	4.0	15.696	Adequate
115	corner_balance_IH80_V	24.42372694013121	0.0	3.0	26.727	Marginally Acceptable
116	SFR_30IH_TR_H	47.343632174489485	0.0	2.0	15.722	Adequate
117	SFR_80IH_BR_H	35.21824254713219	2.4310076665526434	2.0	17.526	Adequate
118	corner_balance_IH80_H	32.09578963098839	0.0	3.0	21.311	Marginally Acceptable
119	SFR_Center_V	51.66143630464602	0.37682250618452007	2.0	12.174	Adequate
120	SFR_30IH_BR_V	44.22922026341703	0.6214654272501464	2.0	21.829	Marginally Acceptable
121	SFR_60IH_BL_V	15.560852910410588	1.041633180921694	4.0	19.568	Adequate
122	SFR_80IH_TR_V	44.22806365228394	0.3235882709504525	2.0	20.285	Marginally Acceptable
123	SFR_80IH_TL_V	17.24315977993173	0.0	4.0	17.984	Adequate
124	SFR_80IH_TL_H	17.419221471126896	0.0	4.0	21.248	Marginally Acceptable
125	SFR_80IH_TR_H	24.076806894689792	0.03878181472057173	3.0	0.0	Excellent
126	SFR_60IH_BL_H	24.68623504550073	1.9165523751559457	3.0	19.061	Adequate
127	SFR_30IH_BR_H	38.0139697227565	0.0	2.0	15.333	Adequate
128	SFR_Center_H	55.920214072274945	2.0206151880046397	2.0	0.032	Excellent
129	SFR_80IH_BR_V	19.987258175775143	0.2355829362957796	3.0	0.043	Excellent
130	left_vert_theta	0.2093292139375025	0.10489514386047753	26.0	0.028	Excellent
131	right_vert_theta	0.21030038876543258	0.3332249540918211	20.0	0.032	Excellent
132	SFR_60IH_TL_V	24.750500030862263	2.638953181081477	3.0	13.245	Adequate
133	SFR_60IH_TR_H	21.03775188199335	0.0	3.0	9.731	Excellent
134	SFR_30IH_TL_H	19.832728596829114	0.0	3.0	9.462	Excellent
135	SFR_30IH_TL_V	44.93660646567098	4.136886127102551	2.0	10.135	Adequate
136	SFR_60IH_TR_V	35.17530352908281	1.1623634312737323	2.0	7.992	Excellent
137	SFR_60IH_TL_H	15.060791979781571	0.0	4.0	9.504	Excellent
138	SFR_60IH_BR_V	21.16231795439775	0.0	3.0	12.168	Adequate
139	lower_horiz_theta	0.16934629224698605	0.6053421854813319	16.0	32.124	Unacceptable
140	SFR_30IH_BL_H	43.89896405971314	0.0	2.0	14.796	Adequate
141	SFR_30IH_BL_V	32.80734559109143	0.5944455065904395	2.0	15.503	Adequate
142	tilt_x	0.028938841878288286	0.006542719147579212	75.0	13.931	Adequate
143	tilt_y	0.03814196344704312	0.0032507264196227413	70.0	7.146	Excellent
144	SFR_60IH_BR_H	15.90677048017913	0.0	4.0	7.262	Excellent
145	upper_horiz_theta	0.4291048379000864	1.208544745845927	11.0	30.626	Unacceptable
146	SFR_30IH_TR_V	34.501266114145	0.36920449016095314	2.0	7.81	Excellent
147	SFR_80IH_BL_H	20.138736167319315	0.8025577789705186	3.0	10.798	Adequate
148	SFR_80IH_BL_V	15.837037284280564	0.5684981926959246	4.0	10.117	Adequate
149	corner_balance_IH80_V	10.113595527302387	0.5664680216447007	5.0	12.105	Adequate

150	SFR_30IH_TR_H	40.44739956229505	0.0	2.0	9.595	Excellent
151	SFR_80IH_BR_H	24.590741954226093	0.0	3.0	8.321	Excellent
152	corner_balance_IH80_H	11.94454095671649	0.0	4.0	10.465	Adequate
153	SFR_Center_V	57.592289091560666	0.0	2.0	9.665	Excellent
154	SFR_30IH_BR_V	66.49328116743432	0.0	2.0	13.963	Adequate
155	SFR_60IH_BL_V	18.03227734016194	0.21832746847752926	3.0	11.603	Adequate
156	SFR_80IH_TR_V	28.089168324651304	1.7785869716406537	3.0	12.041	Adequate
157	SFR_80IH_TL_V	13.312806284858386	0.1532056978730136	4.0	17.341	Adequate
158	SFR_80IH_TL_H	22.962286666026912	0.0	3.0	20.242	Marginally Acceptable
159	SFR_80IH_TR_H	19.243896704704028	0.0	3.0	16.653	Adequate
160	SFR_60IH_BL_H	31.54560409694479	1.4341044826981424	3.0	10.601	Adequate
161	SFR_30IH_BR_H	40.21502566467956	0.0	2.0	9.689	Excellent
162	SFR_Center_H	54.504550886849714	0.0	2.0	0.018	Excellent
163	SFR_80IH_BR_V	20.338912602927213	0.07874232009369993	3.0	0.014	Excellent
164	left_vert_theta	0.3174726359516101	0.37241554794320286	17.0	0.034	Excellent
165	right_vert_theta	0.5443839998530253	0.939932588754606	12.0	0.042	Excellent

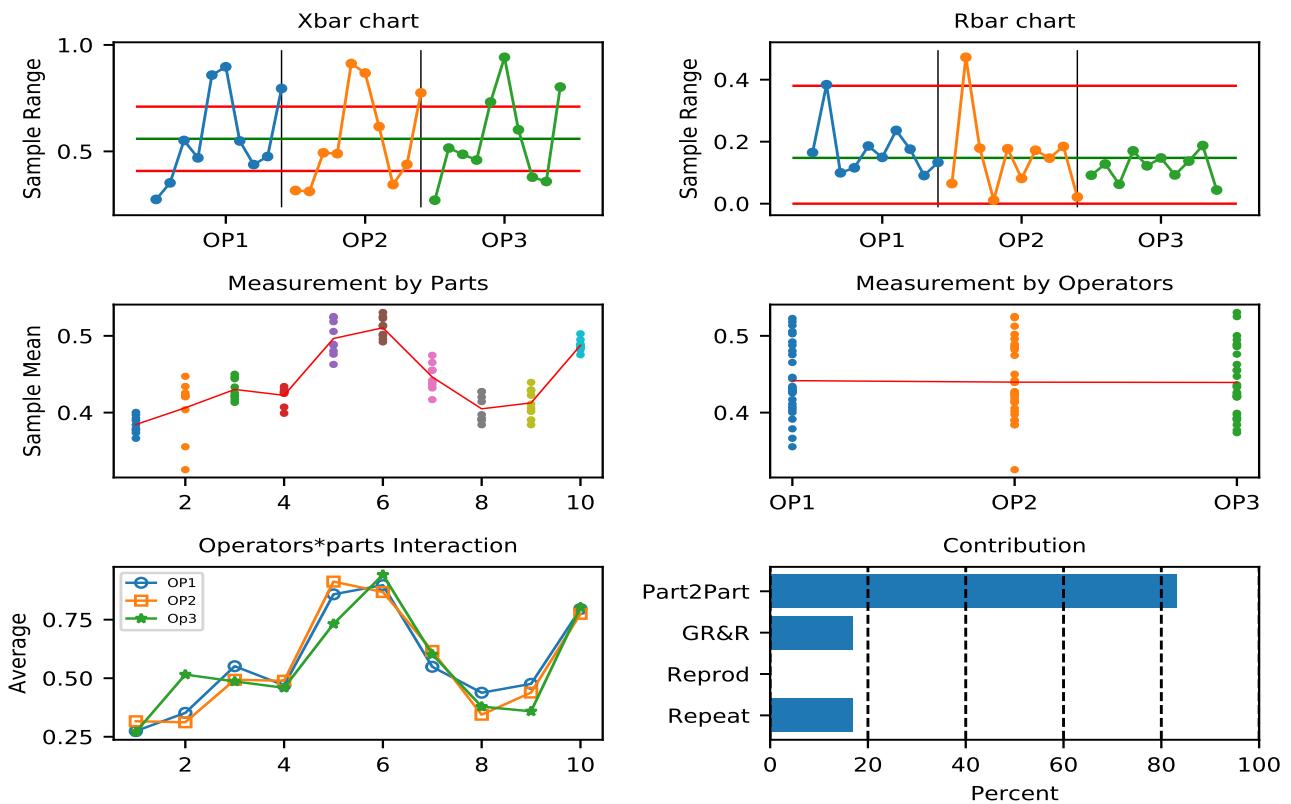
2.1 SFR_55Ip_60IH_BL_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.2	
Equipment Variation(EV, Repeatability)	0.017607809333333335	
Appraiser Variation(AV, Reproducibility)	0.0029852711638365635	
GRR	0.017859081539672042	
Part Variation(PV)	0.04683345333333331	
Total Variation(TV)	0.05012304005710511	
Precision/Tolerance Ratio	13.394	

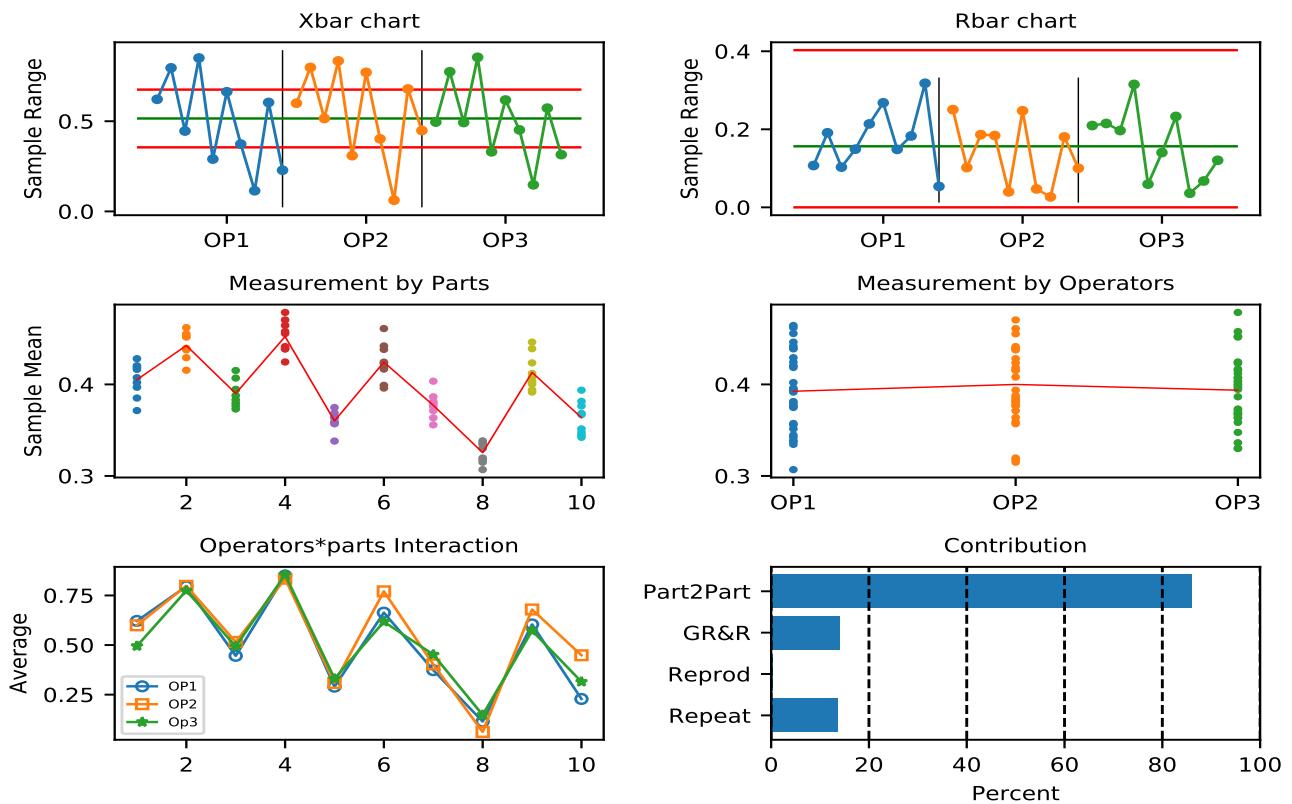
2.2 SFR_55Ip_60IH_TL_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.2	
Equipment Variation(EV, Repeatability)	0.0178717	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.0178717	
Part Variation(PV)	0.03965008666666667	
Total Variation(TV)	0.04349168924707548	
Precision/Tolerance Ratio	13.404	

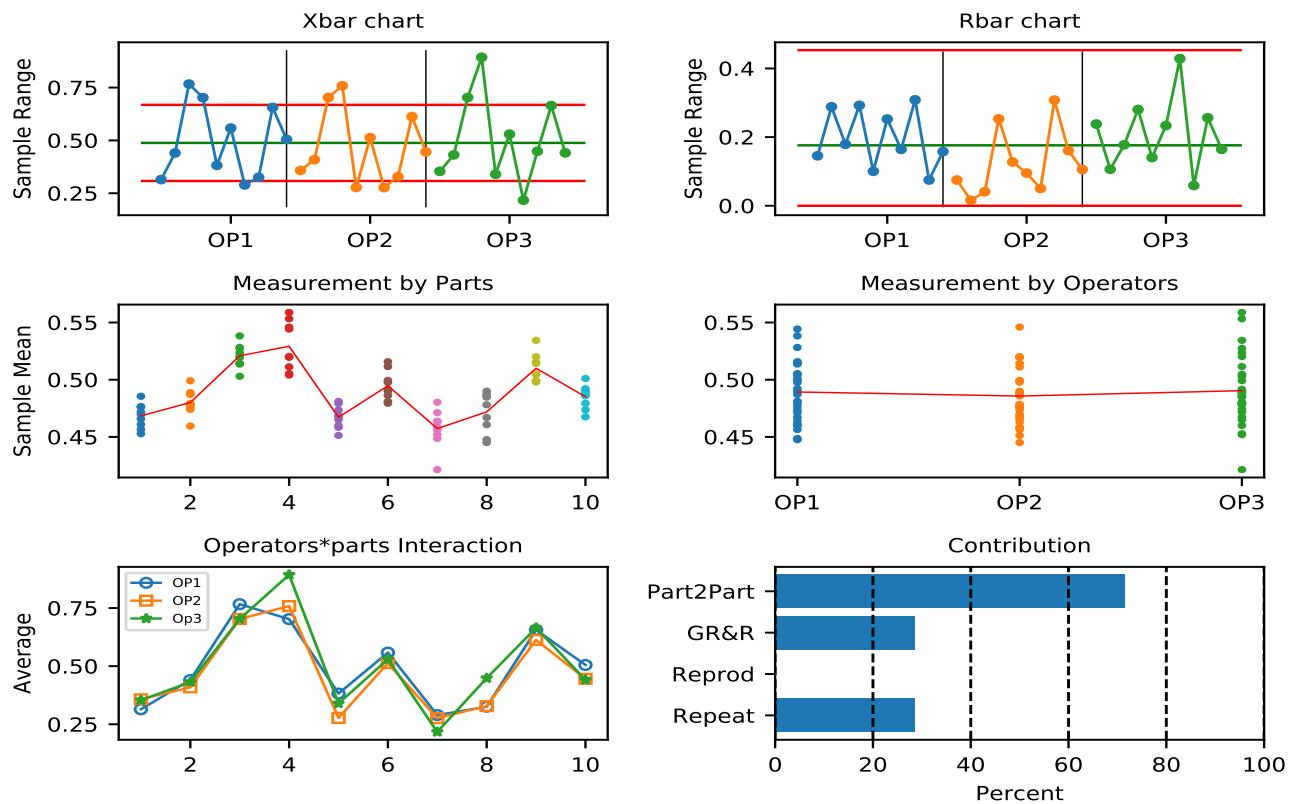
2.3 SFR_55Ip_60IH_TR_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.22	
Equipment Variation(EV, Repeatability)	0.015868887999999998	
Appraiser Variation(AV, Reproducibility)	0.0025881096551399942	
GRR	0.0160785545974622	
Part Variation(PV)	0.03988778444444444	
Total Variation(TV)	0.04300645609475439	
Precision/Tolerance Ratio	12.368	

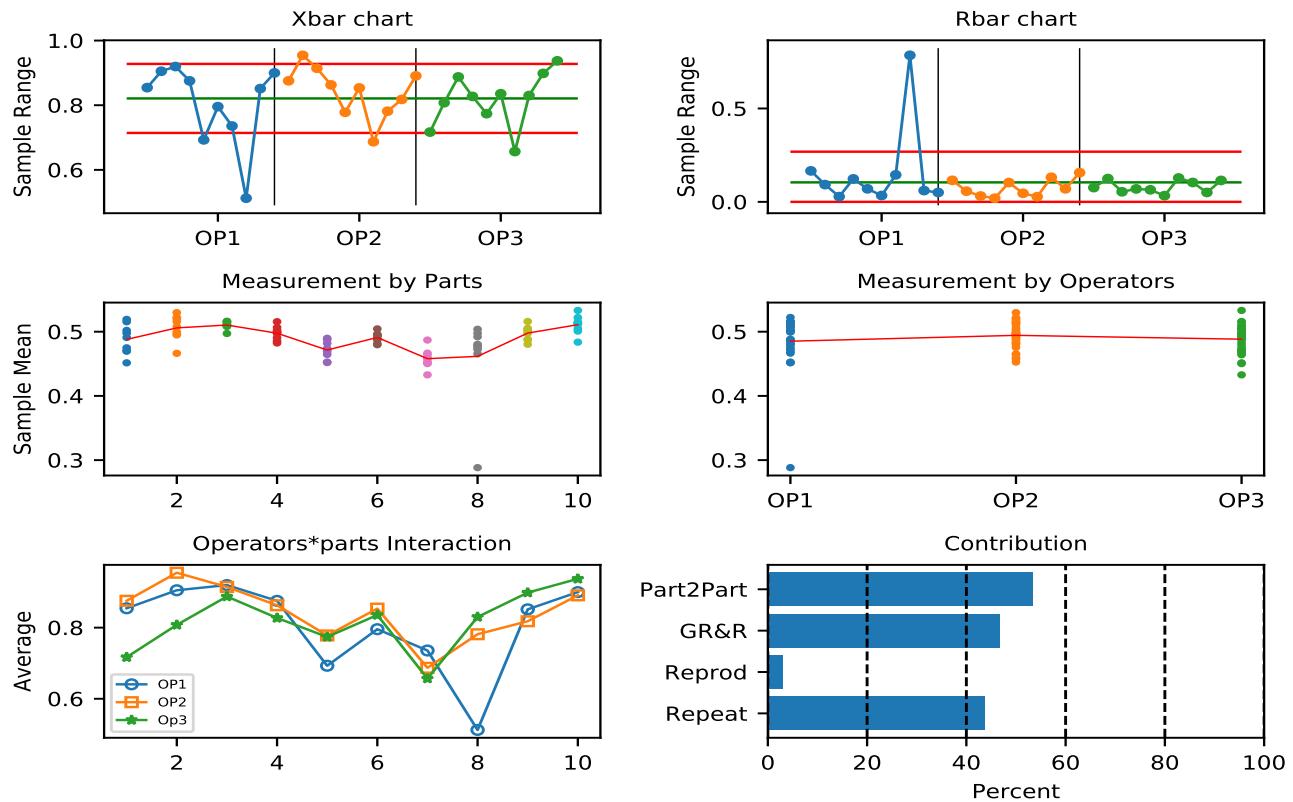
2.4 SFR_55Ip_30IH_TR_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.22	
Equipment Variation(EV, Repeatability)	0.014289482666666666	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.014289482666666666	
Part Variation(PV)	0.022630226666666652	
Total Variation(TV)	0.02676408925903659	
Precision/Tolerance Ratio	10.992	

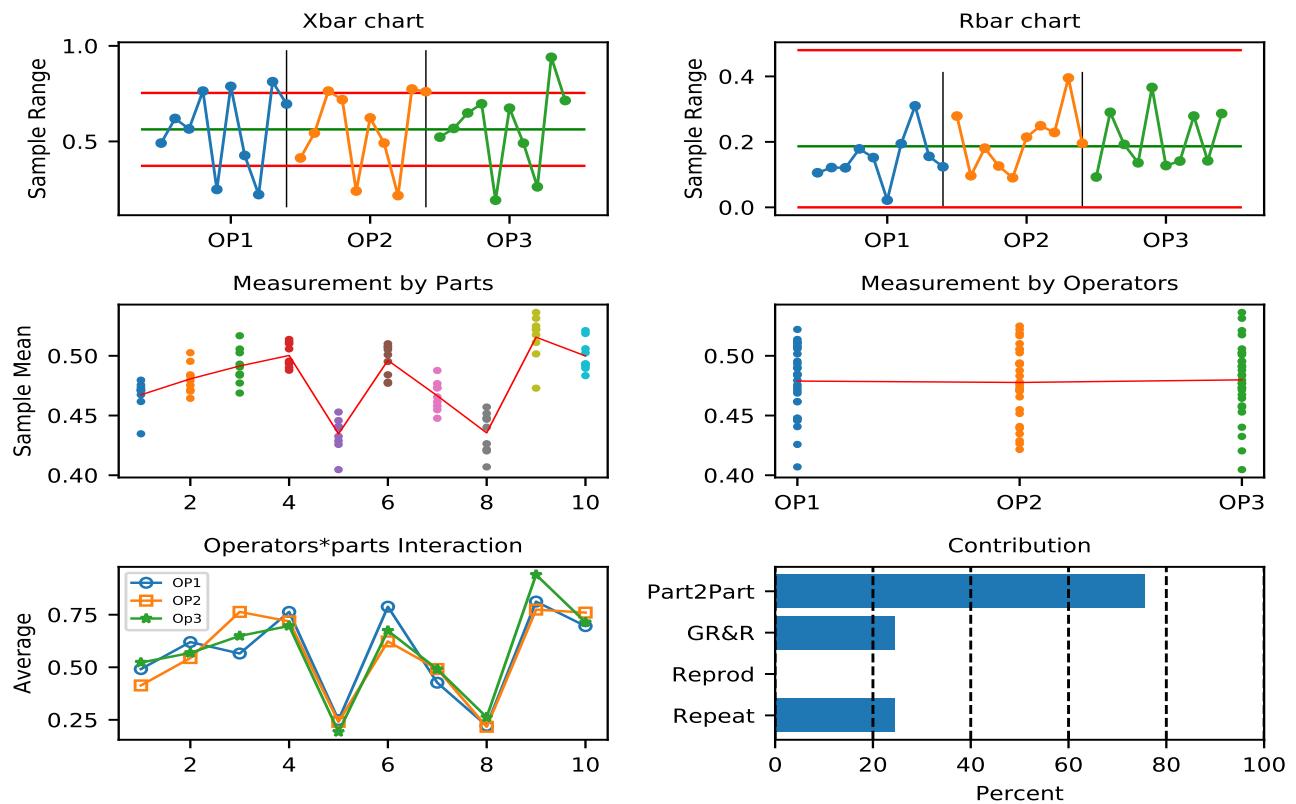
2.5 SFR_55lp_Center_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.015089031999999995	
Appraiser Variation(AV, Reproducibility)	0.00391194390043549	
GRR	0.015587886058641124	
Part Variation(PV)	0.016645835555555526	
Total Variation(TV)	0.022804956327951494	
Precision/Tolerance Ratio	9.353	

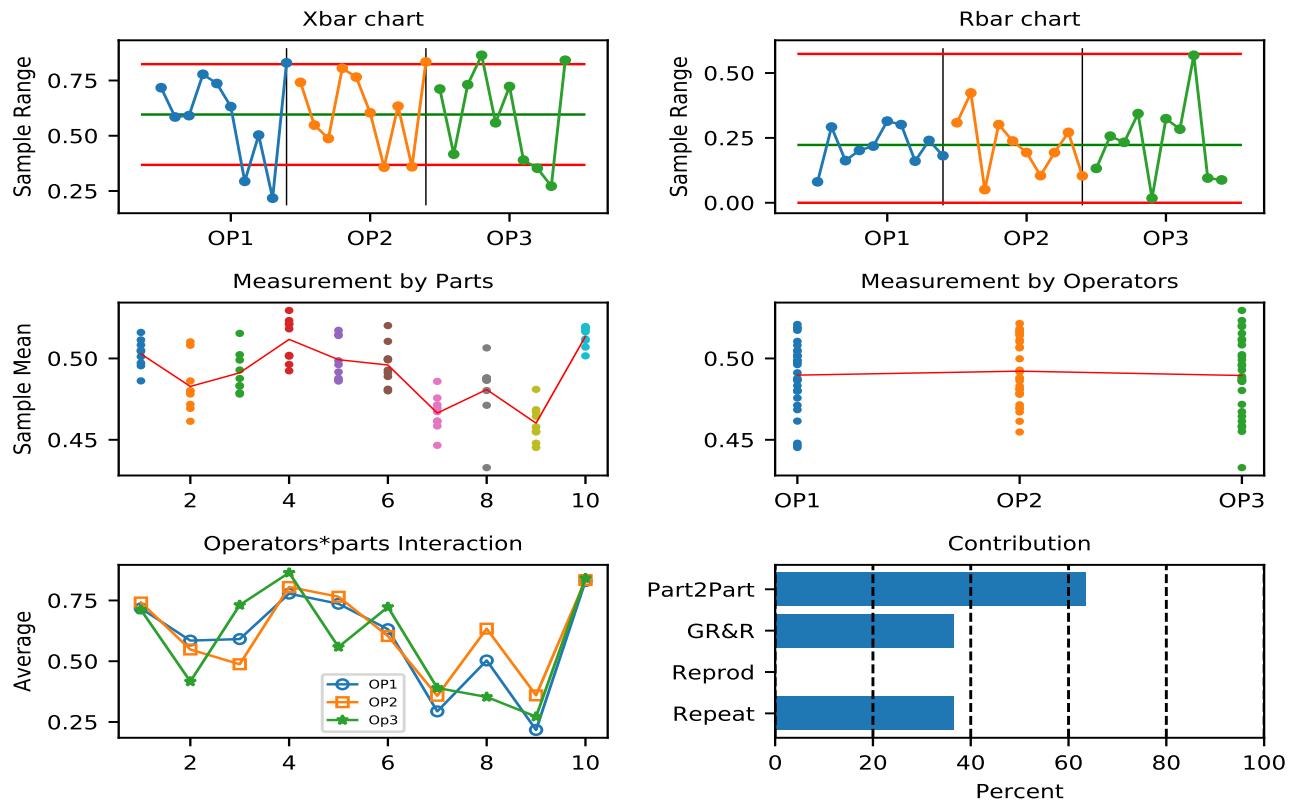
2.6 SFR_55Ip_30IH_BL_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.014498232000000005	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.014498232000000005	
Part Variation(PV)	0.02546861777777776	
Total Variation(TV)	0.029306129437992347	
Precision/Tolerance Ratio	8.699	

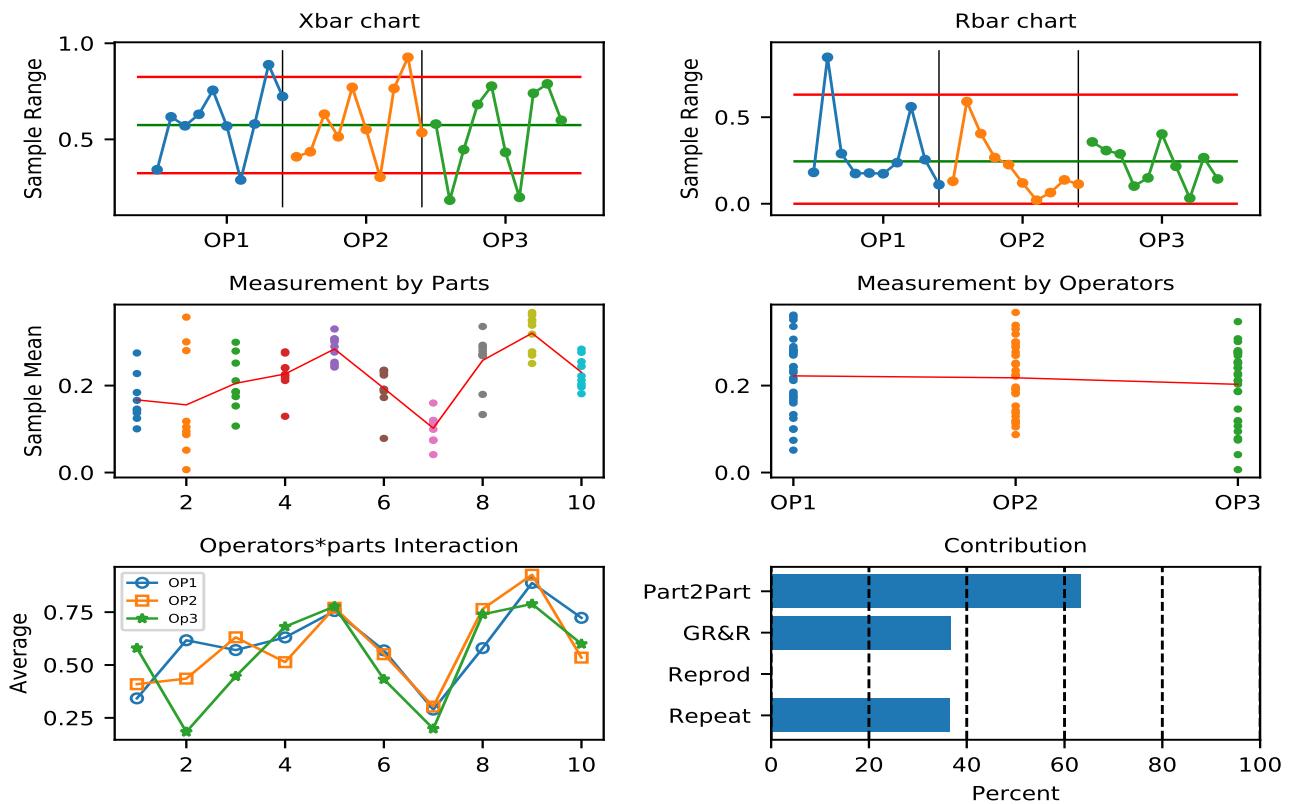
2.7 SFR_55Ip_30IH_TL_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.22	
Equipment Variation(EV, Repeatability)	0.01271598533333333	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.01271598533333333	
Part Variation(PV)	0.01678216222222195	
Total Variation(TV)	0.02105557531511619	
Precision/Tolerance Ratio	9.782	

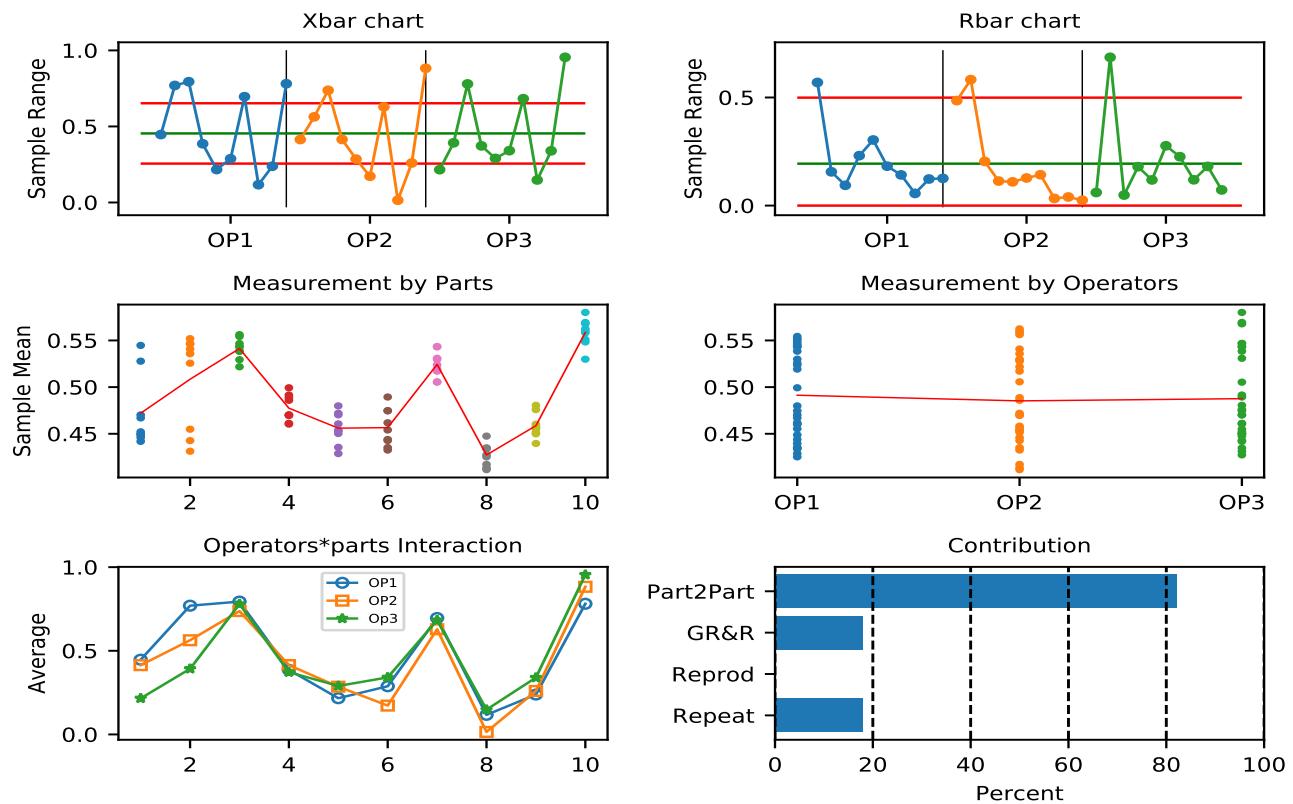
2.8 corner_balance_IH60_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.22	
Equipment Variation(EV, Repeatability)	0.05228776933333334	
Appraiser Variation(AV, Reproducibility)	0.0035339857841838154	
GRR	0.05240705942312245	
Part Variation(PV)	0.06875058666666667	
Total Variation(TV)	0.08644734261034015	
Precision/Tolerance Ratio	40.313	

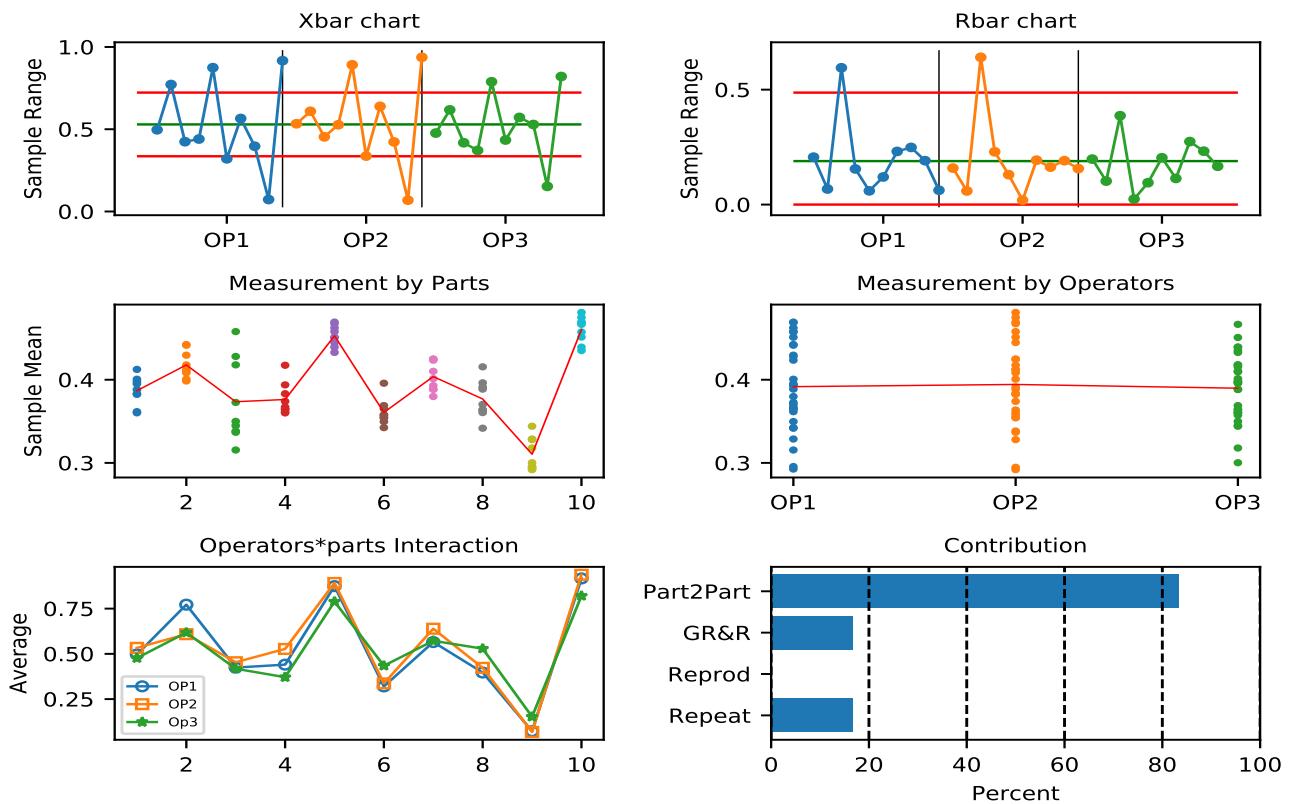
2.9 SFR_55Ip_30IH_BR_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.27	
Equipment Variation(EV, Repeatability)	0.019291589333333328	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.019291589333333328	
Part Variation(PV)	0.04129299777777782	
Total Variation(TV)	0.045577155291675935	
Precision/Tolerance Ratio	15.856	

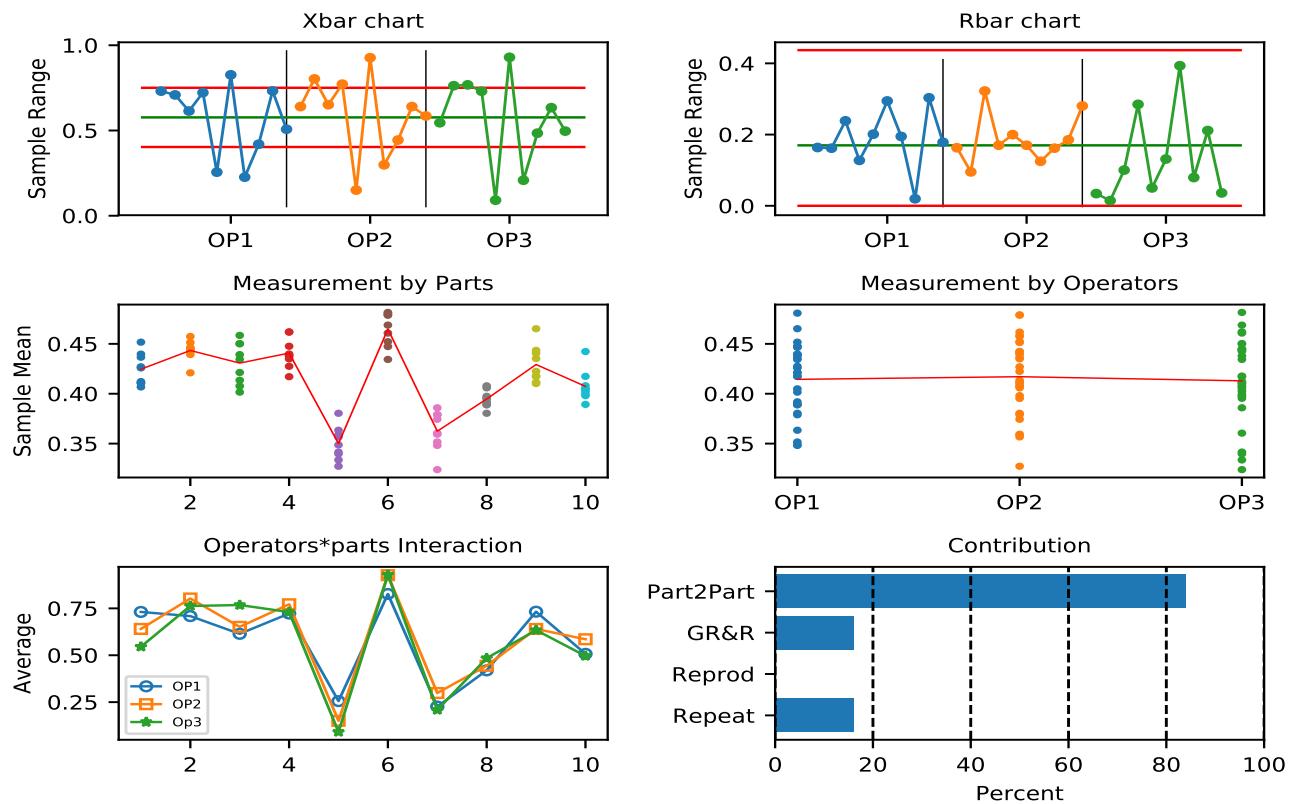
2.10 SFR_55Ip_60IH_BR_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.27	
Equipment Variation(EV, Repeatability)	0.021123069333333327	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.021123069333333327	
Part Variation(PV)	0.047183008888888864	
Total Variation(TV)	0.0516954580777632	
Precision/Tolerance Ratio	17.361	

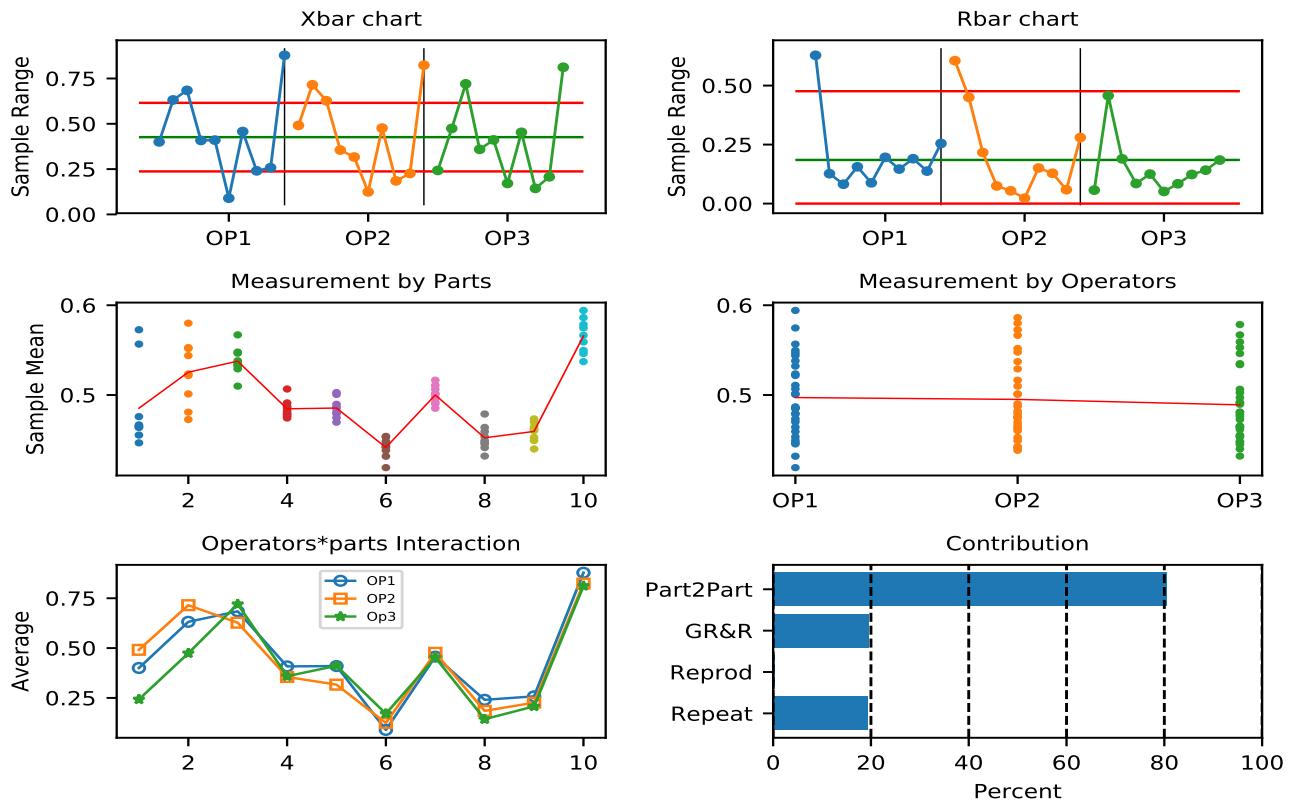
2.11 SFR_55Ip_60IH_TR_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.22	
Equipment Variation(EV, Repeatability)	0.0158039	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.0158039	
Part Variation(PV)	0.036126566666666665	
Total Variation(TV)	0.03943211983055325	
Precision/Tolerance Ratio	12.157	

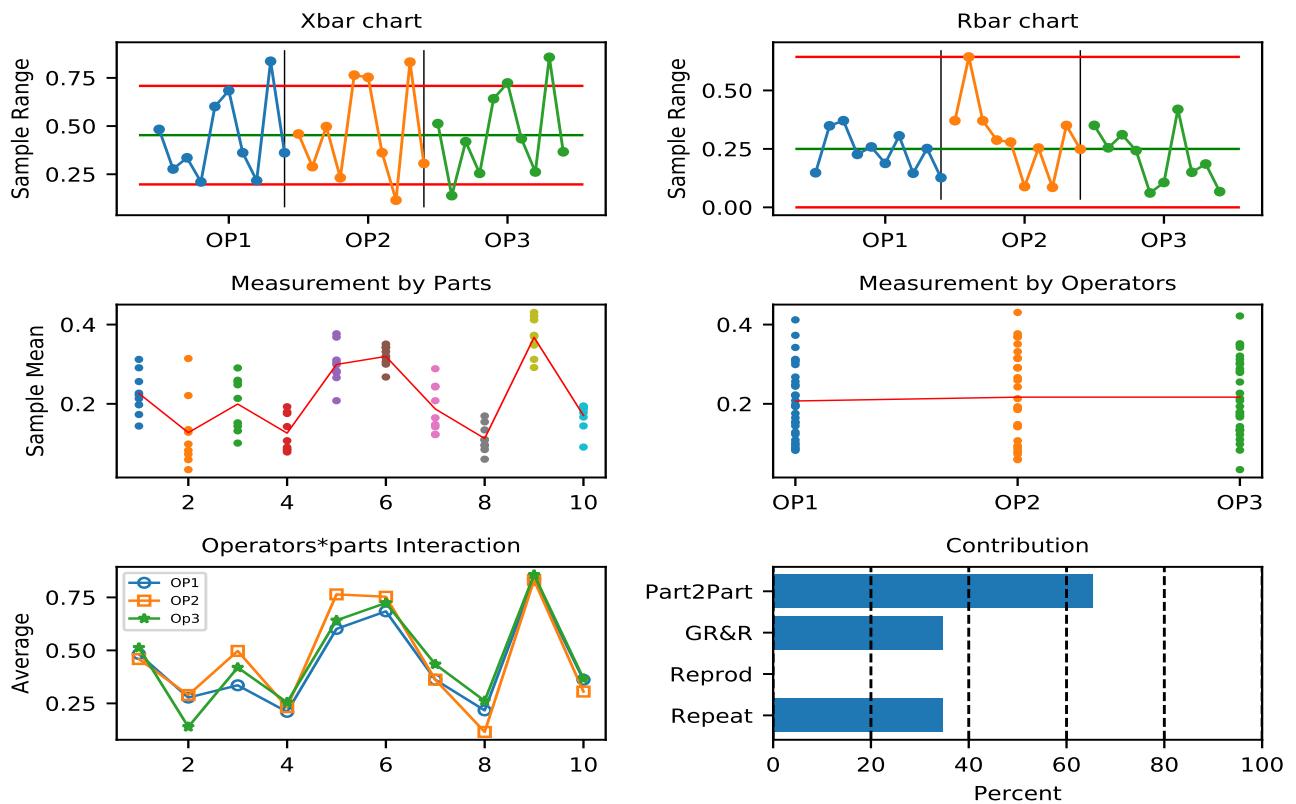
2.12 SFR_55Ip_30IH_BR_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.22	
Equipment Variation(EV, Repeatability)	0.019126165333333327	
Appraiser Variation(AV, Reproducibility)	0.0024121735660121504	
GRR	0.019277675733100432	
Part Variation(PV)	0.039090797777777774	
Total Variation(TV)	0.0435857689225931	
Precision/Tolerance Ratio	14.829	

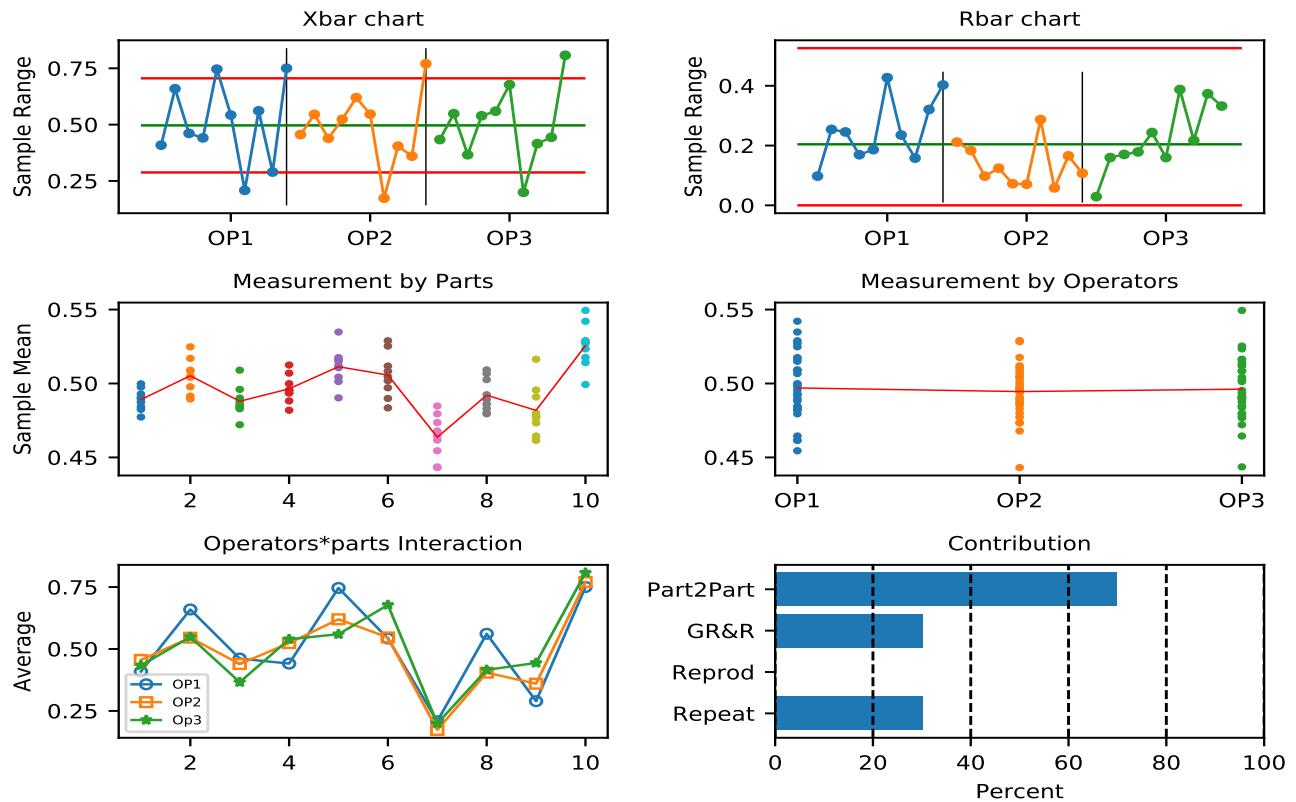
2.13 corner_balance_IH60_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.2	
Equipment Variation(EV, Repeatability)	0.05855024933333333	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.05855024933333333	
Part Variation(PV)	0.08031038888888889	
Total Variation(TV)	0.09938757598653902	
Precision/Tolerance Ratio	43.913	

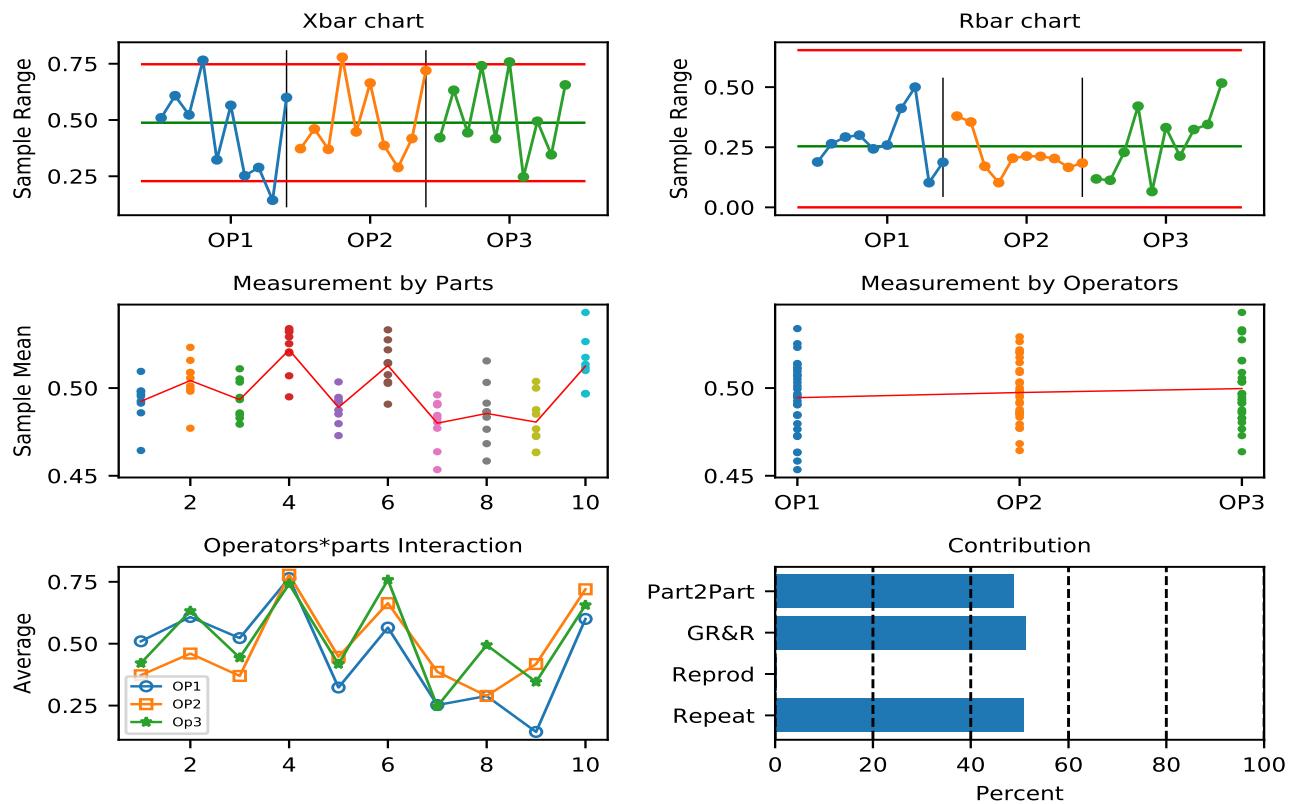
2.14 SFR_55Ip_30IH_TL_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.2	
Equipment Variation(EV, Repeatability)	0.012826268000000005	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.012826268000000005	
Part Variation(PV)	0.019477235555555562	
Total Variation(TV)	0.02332114610593617	
Precision/Tolerance Ratio	9.62	

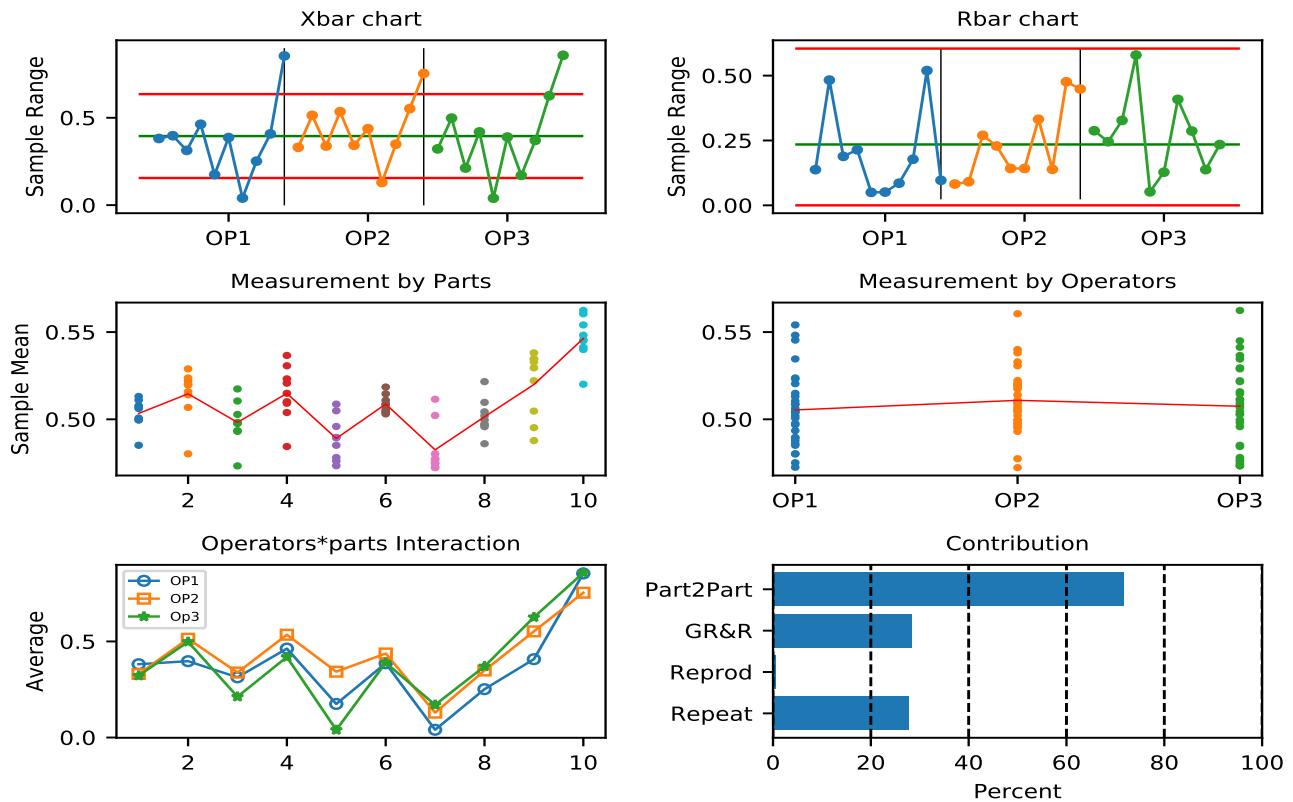
2.15 SFR_55lp_Center_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.22	
Equipment Variation(EV, Repeatability)	0.013440699999999995	
Appraiser Variation(AV, Reproducibility)	0.0011532353539799444	
GRR	0.013490084072075649	
Part Variation(PV)	0.013146784444444444	
Total Variation(TV)	0.018836674587101497	
Precision/Tolerance Ratio	10.377	

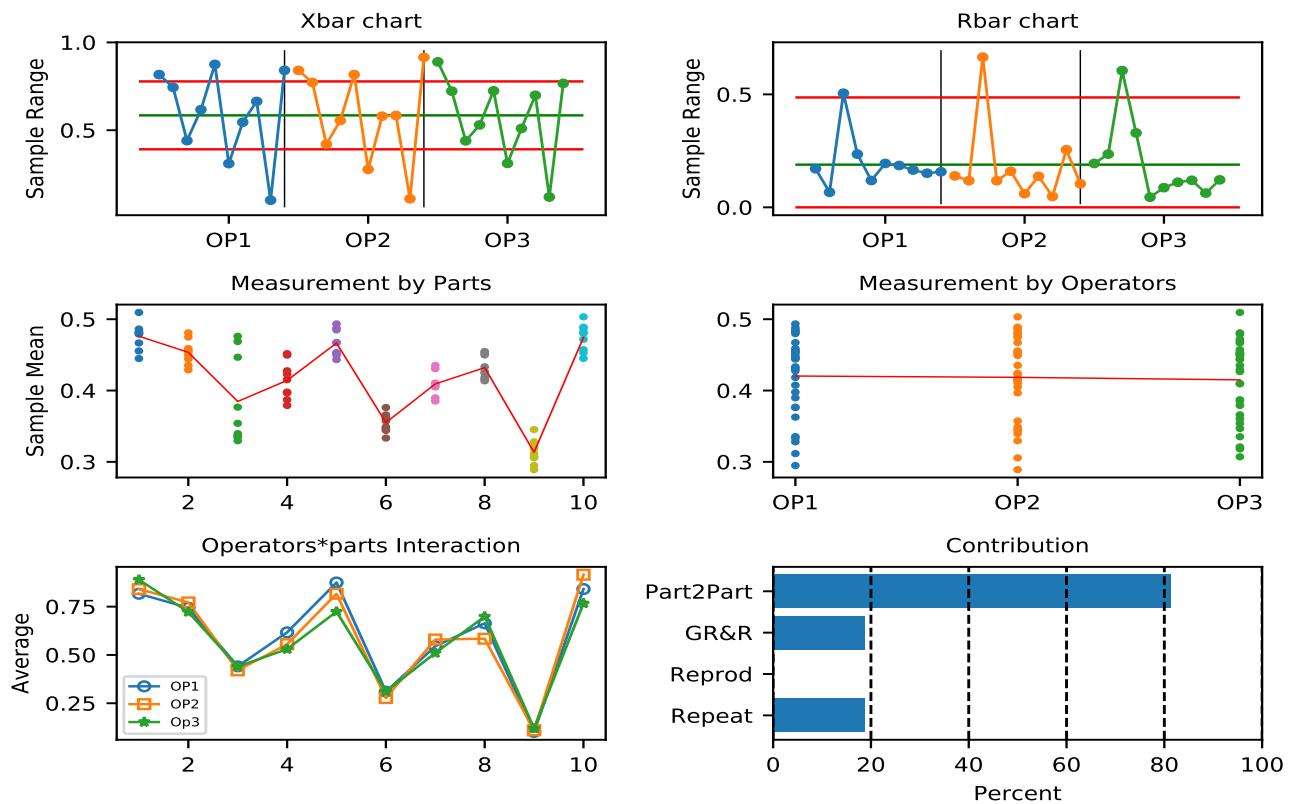
2.16 SFR_55Ip_30IH_BL_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.22	
Equipment Variation(EV, Repeatability)	0.012491481333333332	
Appraiser Variation(AV, Reproducibility)	0.0017681691124726876	
GRR	0.012616002850004335	
Part Variation(PV)	0.02007847111111111	
Total Variation(TV)	0.023713045567177595	
Precision/Tolerance Ratio	9.705	

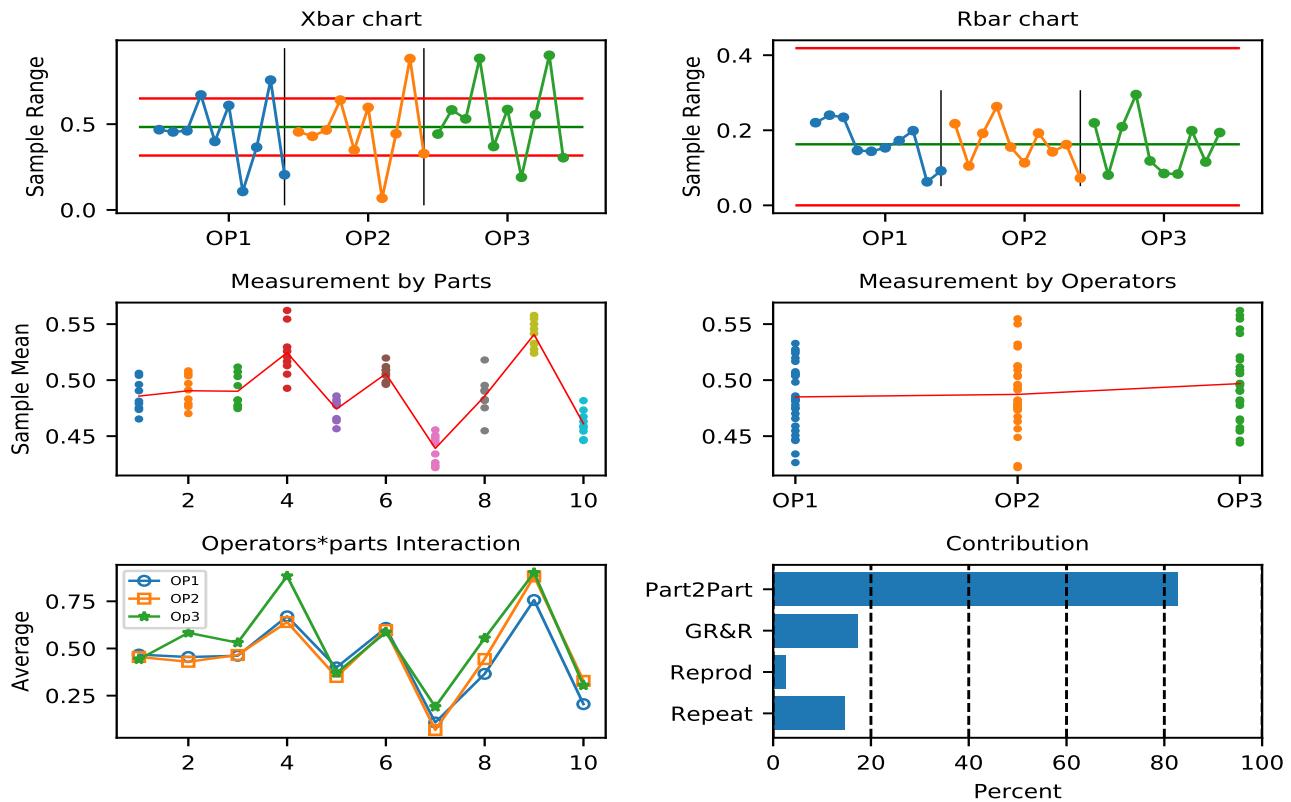
2.17 SFR_55Ip_60IH_BR_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.2	
Equipment Variation(EV, Repeatability)	0.02459697333333333	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.02459697333333333	
Part Variation(PV)	0.05120289777777756	
Total Variation(TV)	0.05680447022904332	
Precision/Tolerance Ratio	18.448	

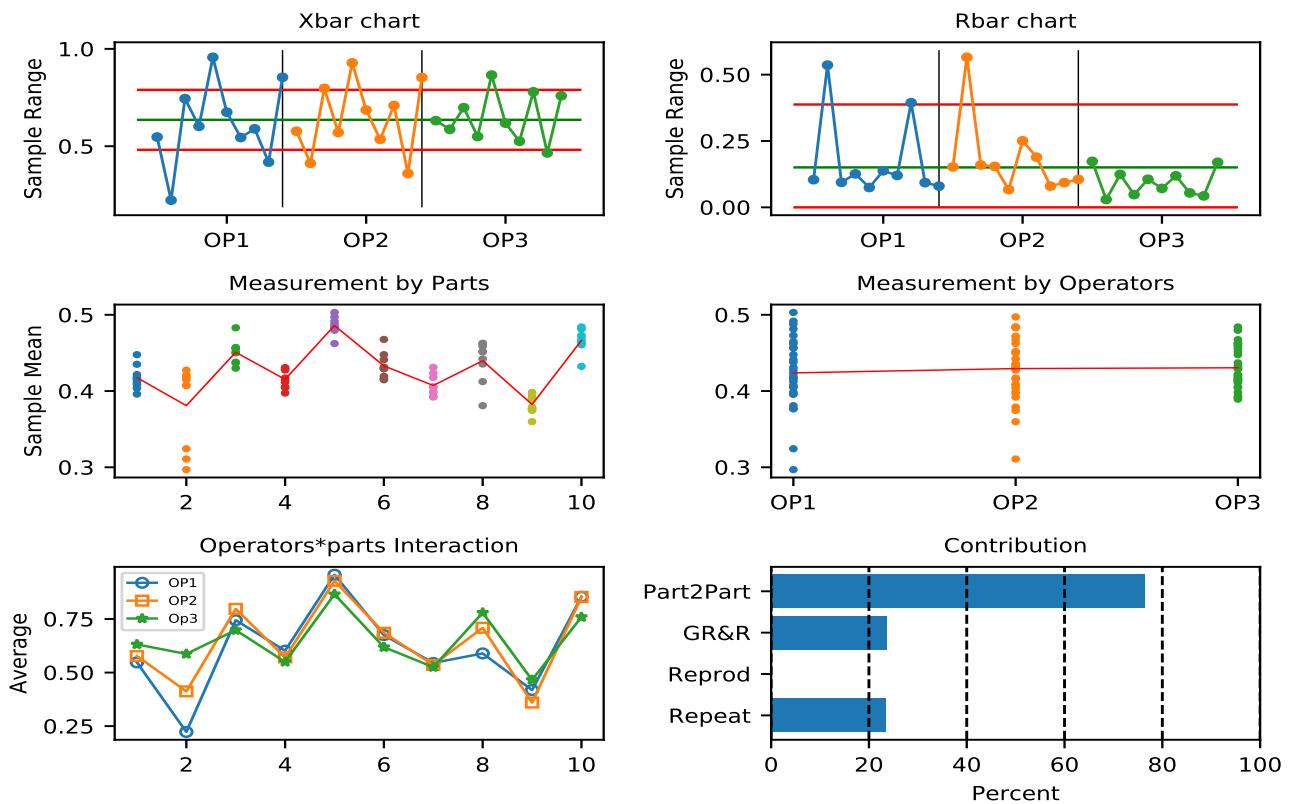
2.18 SFR_55Ip_30IH_TR_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.2	
Equipment Variation(EV, Repeatability)	0.013480086666666665	
Appraiser Variation(AV, Reproducibility)	0.005715807822876194	
GRR	0.014641830336706442	
Part Variation(PV)	0.0319773422222223	
Total Variation(TV)	0.035170066977559394	
Precision/Tolerance Ratio	10.981	

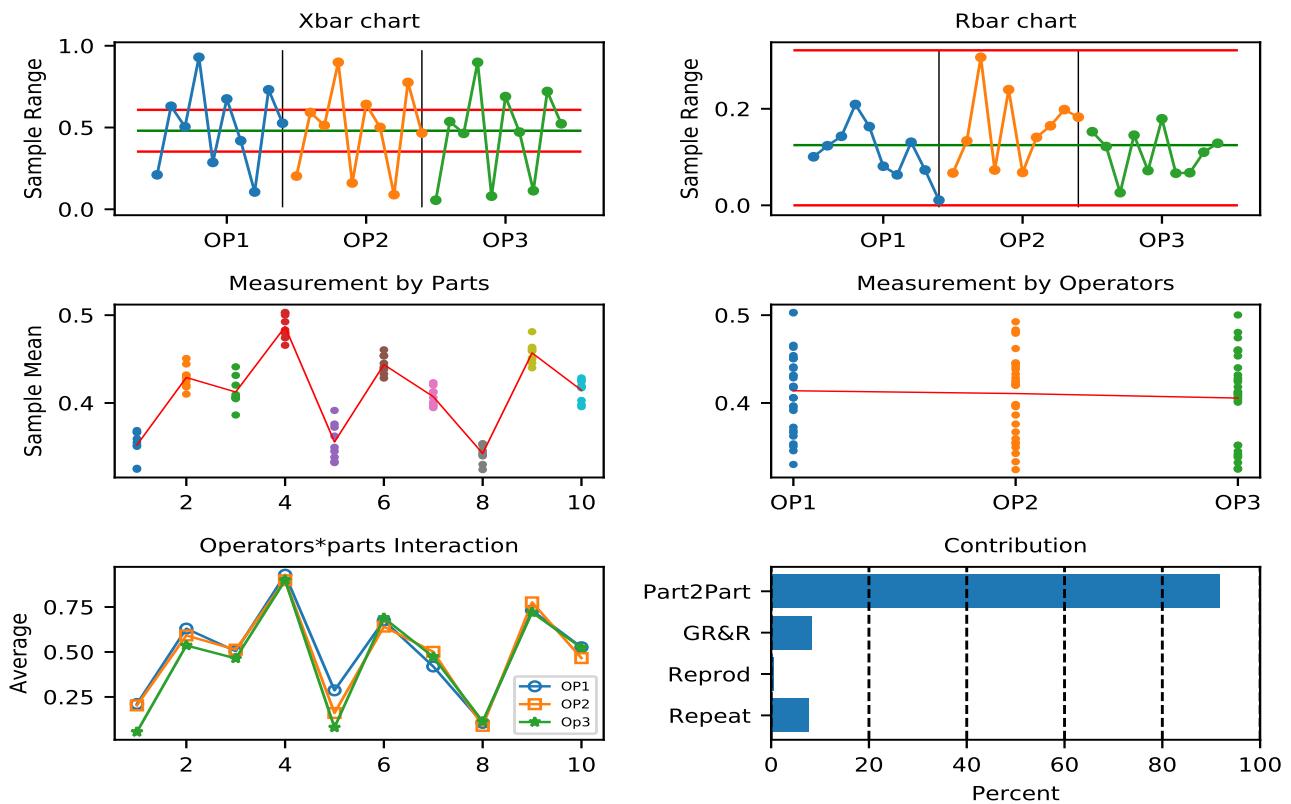
2.19 SFR_55Ip_60IH_TL_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.2	
Equipment Variation(EV, Repeatability)	0.01833449333333333	
Appraiser Variation(AV, Reproducibility)	0.0010559287351268438	
GRR	0.01836487493242769	
Part Variation(PV)	0.033046982222222236	
Total Variation(TV)	0.037807031955438976	
Precision/Tolerance Ratio	13.774	

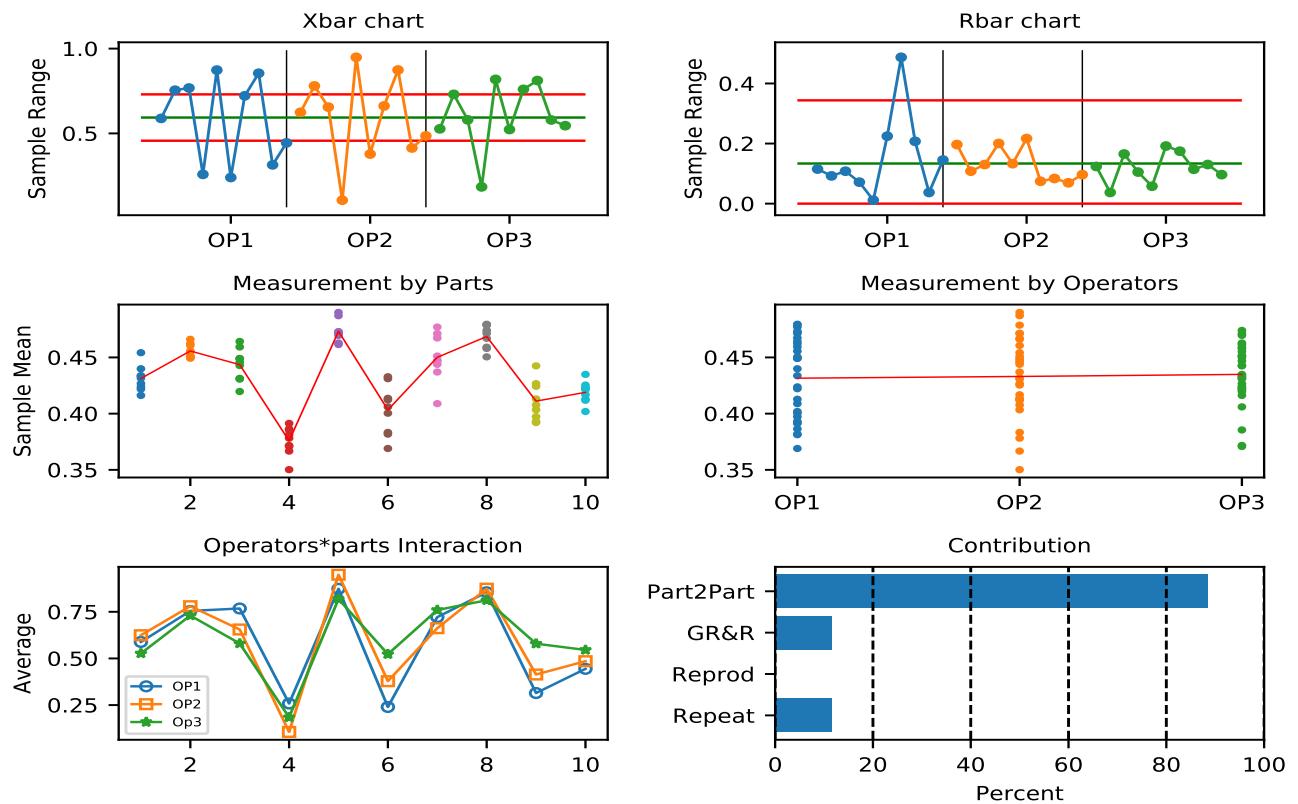
2.20 SFR_55Ip_60IH_BL_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.2	
Equipment Variation(EV, Repeatability)	0.013192564000000002	
Appraiser Variation(AV, Reproducibility)	0.0036249299361130003	
GRR	0.013681515337703797	
Part Variation(PV)	0.04540027555555556	
Total Variation(TV)	0.04741696829676271	
Precision/Tolerance Ratio	10.261	

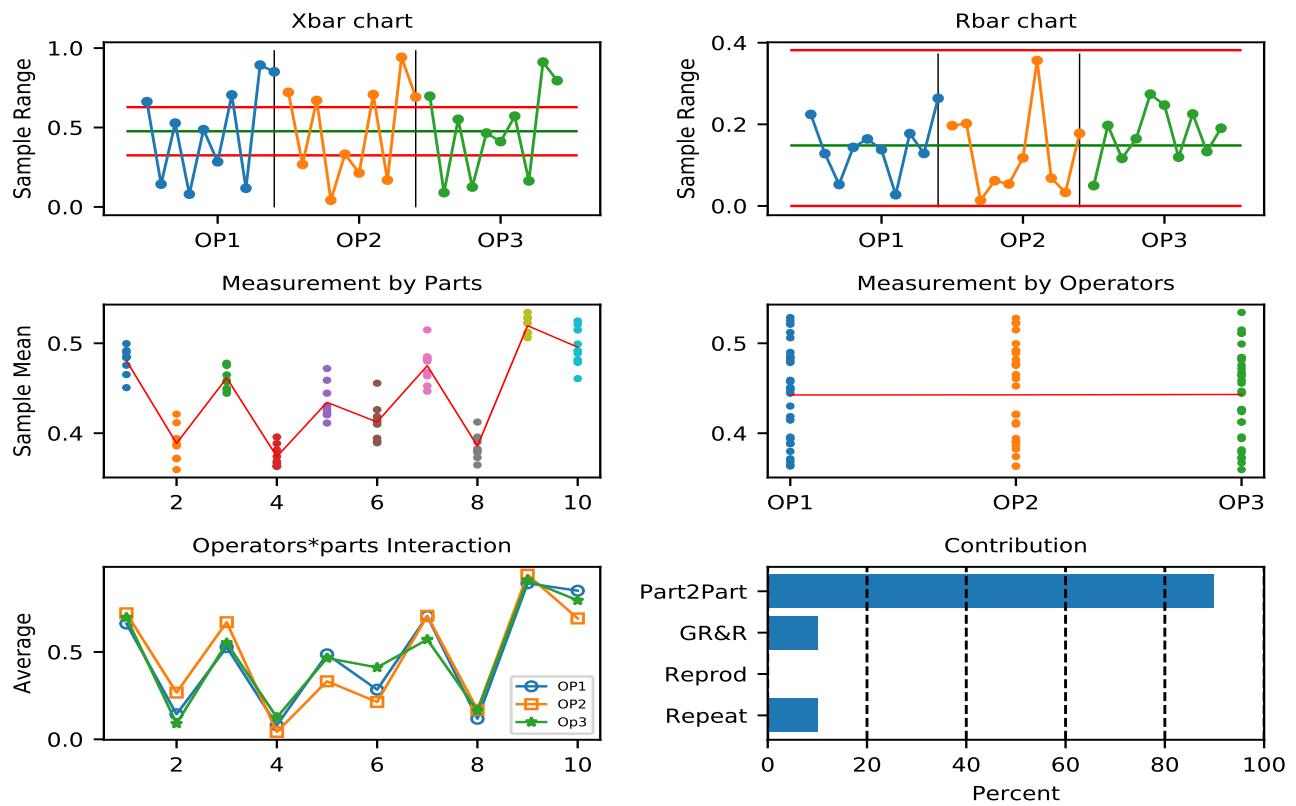
2.21 SFR_55Ip_60IH_BL_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.2	
Equipment Variation(EV, Repeatability)	0.011028266666666668	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.011028266666666668	
Part Variation(PV)	0.030663013333333326	
Total Variation(TV)	0.03258593335093056	
Precision/Tolerance Ratio	8.271	

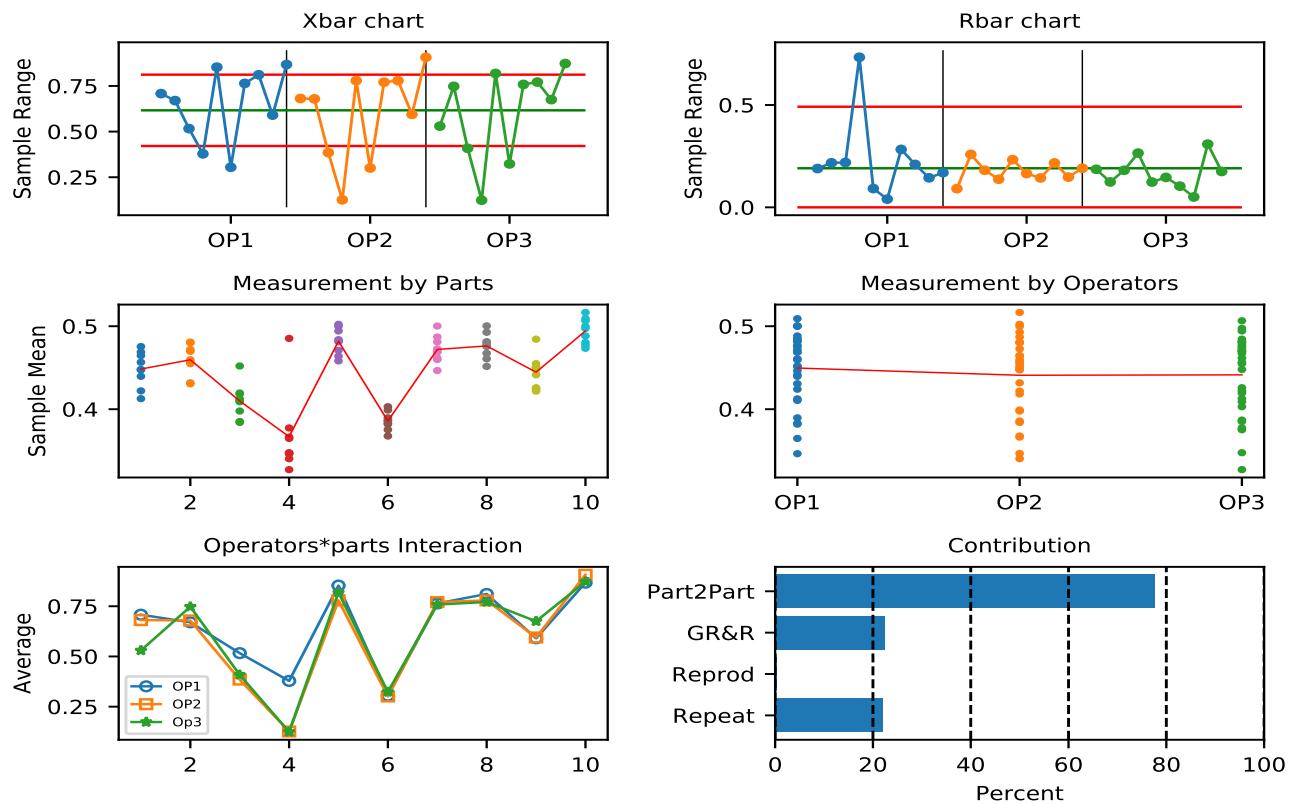
2.22 SFR_55Ip_60IH_TL_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.2	
Equipment Variation(EV, Repeatability)	0.015311566666666663	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.015311566666666663	
Part Variation(PV)	0.04580925555555556	
Total Variation(TV)	0.04830043445293195	
Precision/Tolerance Ratio	11.484	

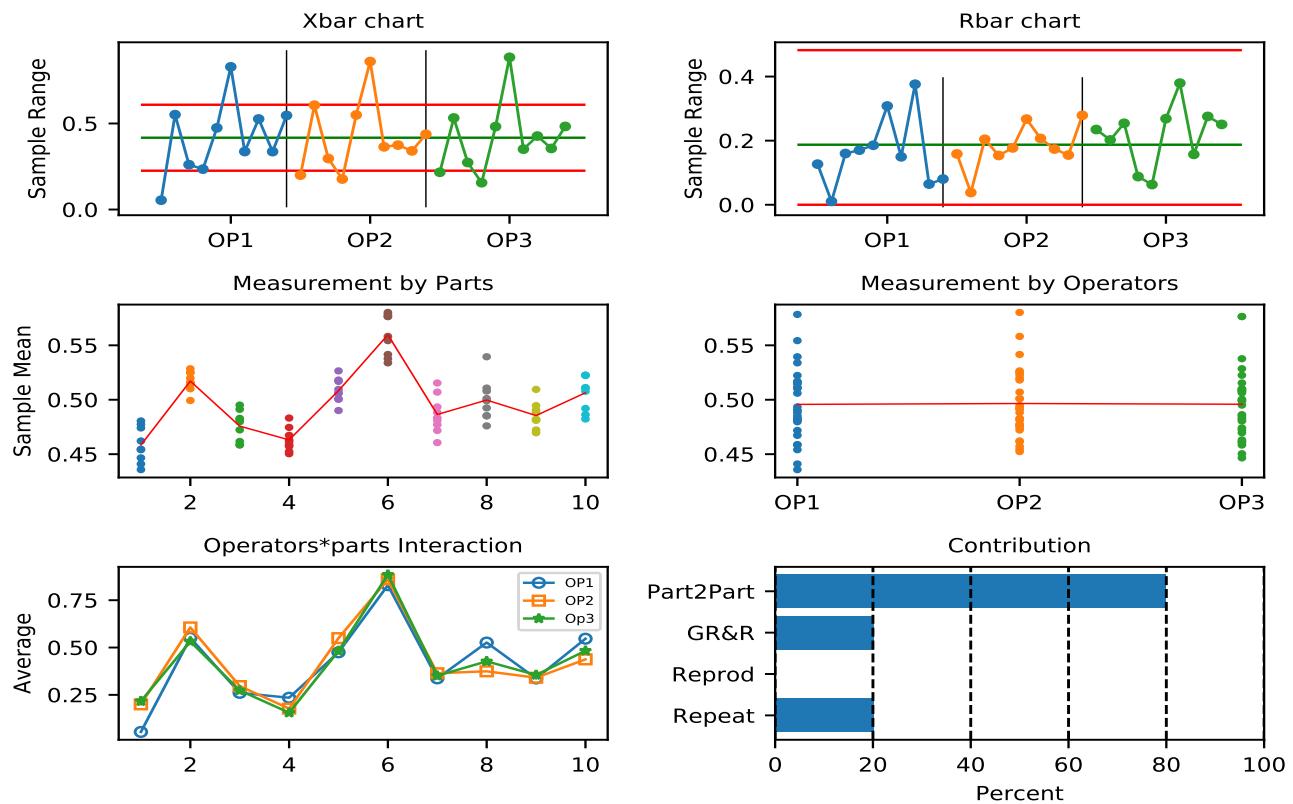
2.23 SFR_55Ip_60IH_TR_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.22	
Equipment Variation(EV, Repeatability)	0.02136529733333333	
Appraiser Variation(AV, Reproducibility)	0.0023510034587588134	
GRR	0.021494258475342577	
Part Variation(PV)	0.040076544444444424	
Total Variation(TV)	0.04547672549791119	
Precision/Tolerance Ratio	16.534	

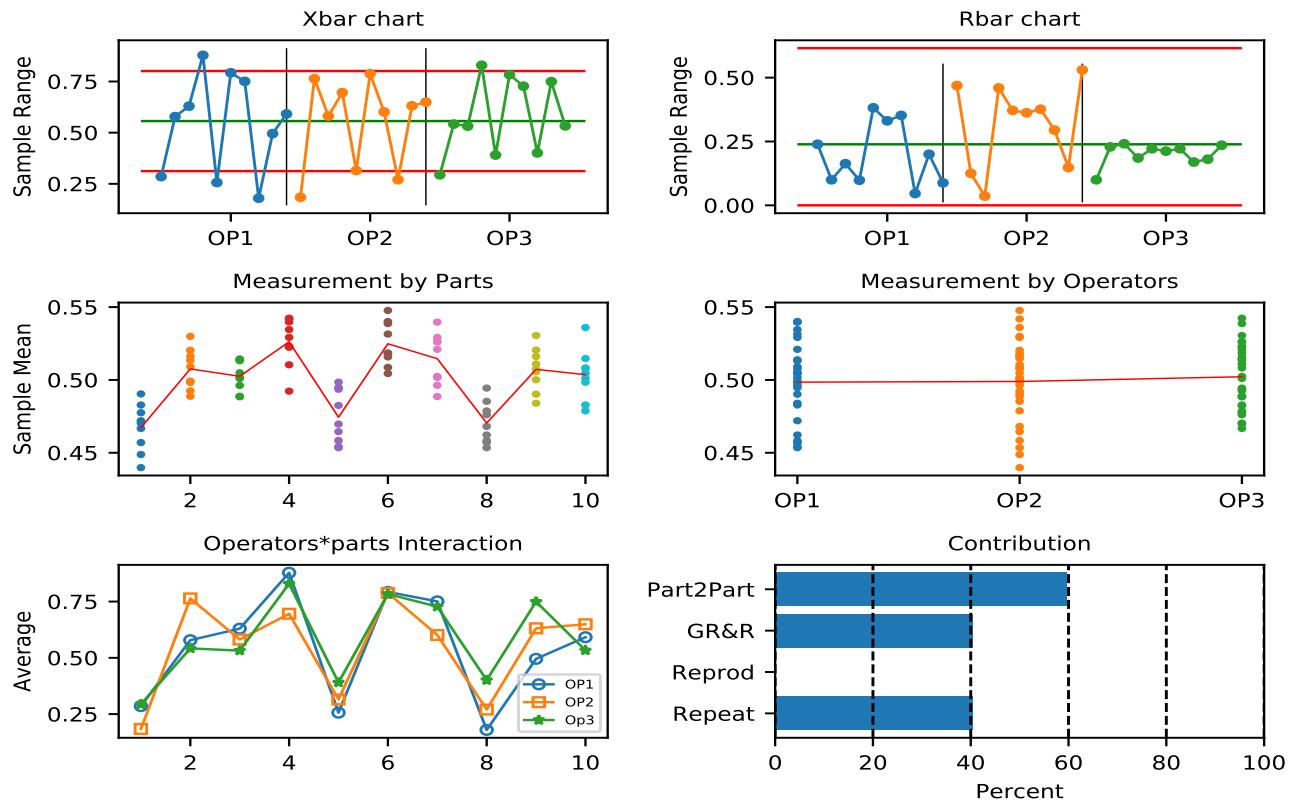
2.24 SFR_55Ip_30IH_TR_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.22	
Equipment Variation(EV, Repeatability)	0.015981139999999994	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.015981139999999994	
Part Variation(PV)	0.031848006666666706	
Total Variation(TV)	0.035632742868598355	
Precision/Tolerance Ratio	12.293	

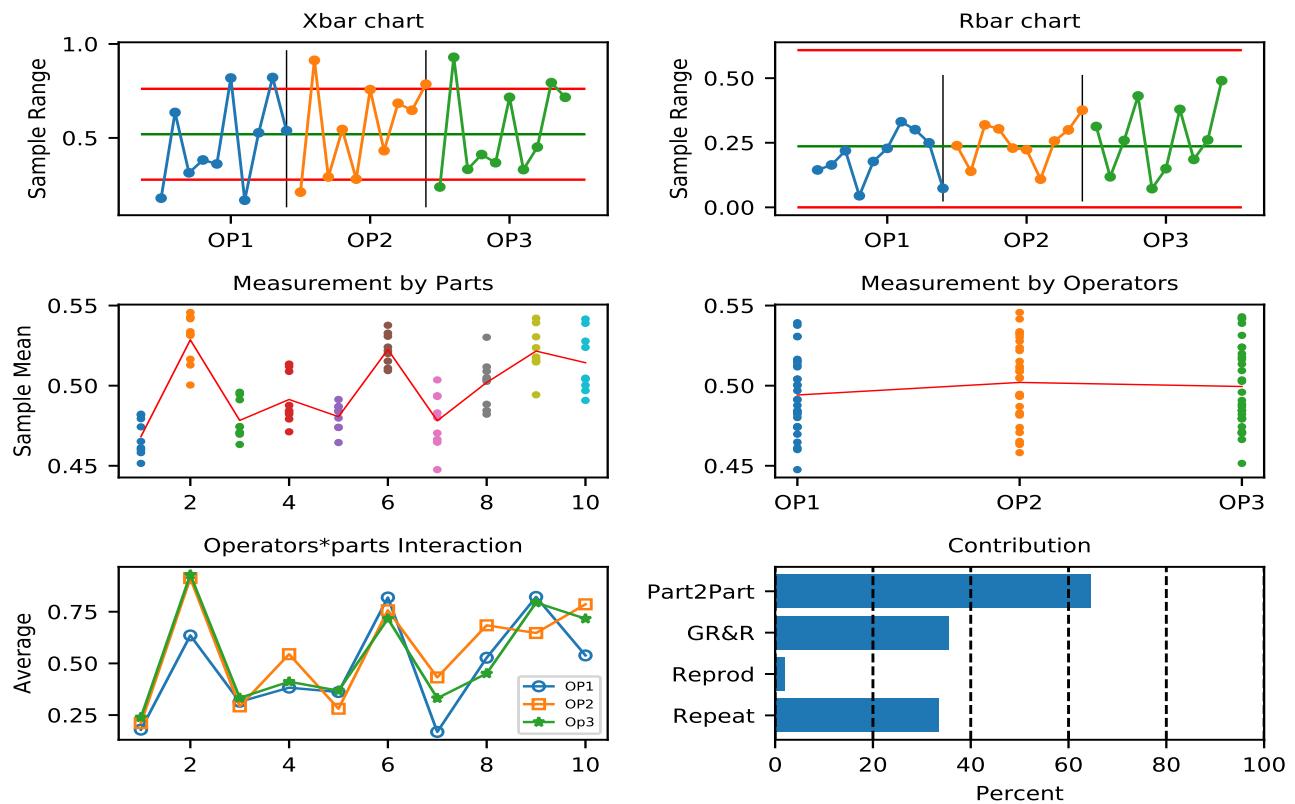
2.25 SFR_55lp_Center_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.015234762666666663	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.015234762666666663	
Part Variation(PV)	0.01854741777777779	
Total Variation(TV)	0.024002181145326935	
Precision/Tolerance Ratio	9.141	

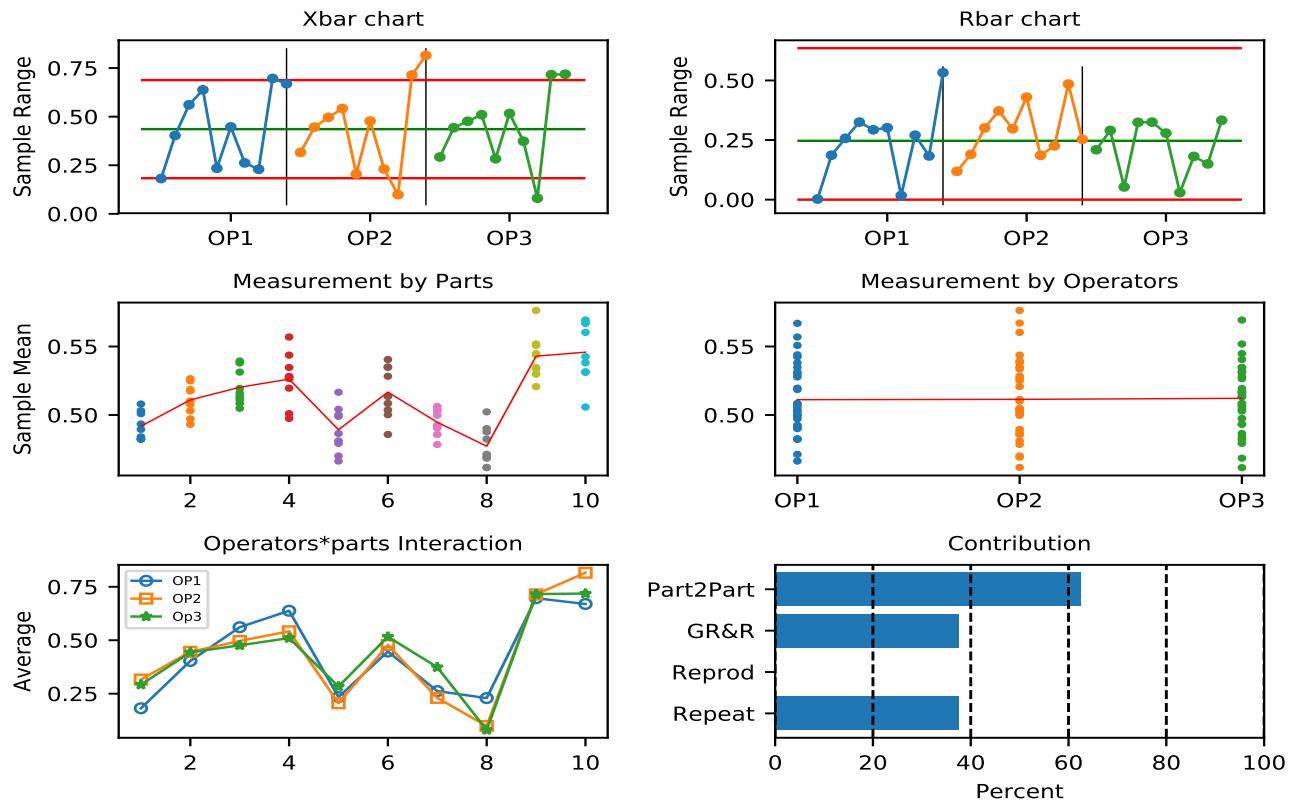
2.26 SFR_55Ip_30IH_BL_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.013694744000000003	
Appraiser Variation(AV, Reproducibility)	0.0032529717492914027	
GRR	0.014075789087195931	
Part Variation(PV)	0.019005335555555565	
Total Variation(TV)	0.02365017162742141	
Precision/Tolerance Ratio	8.445	

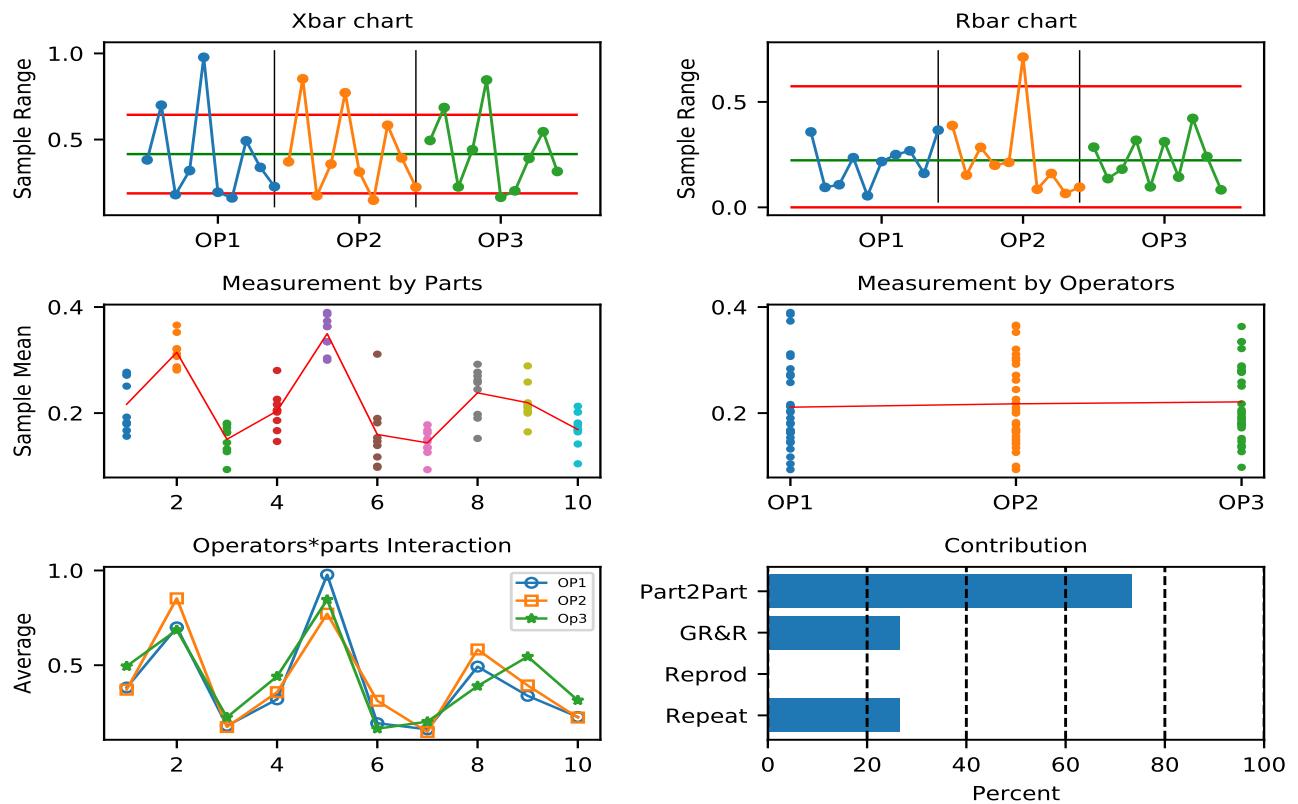
2.27 SFR_55Ip_30IH_TL_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.22	
Equipment Variation(EV, Repeatability)	0.016721609333333328	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.016721609333333328	
Part Variation(PV)	0.021592046666666663	
Total Variation(TV)	0.027309864480662107	
Precision/Tolerance Ratio	12.863	

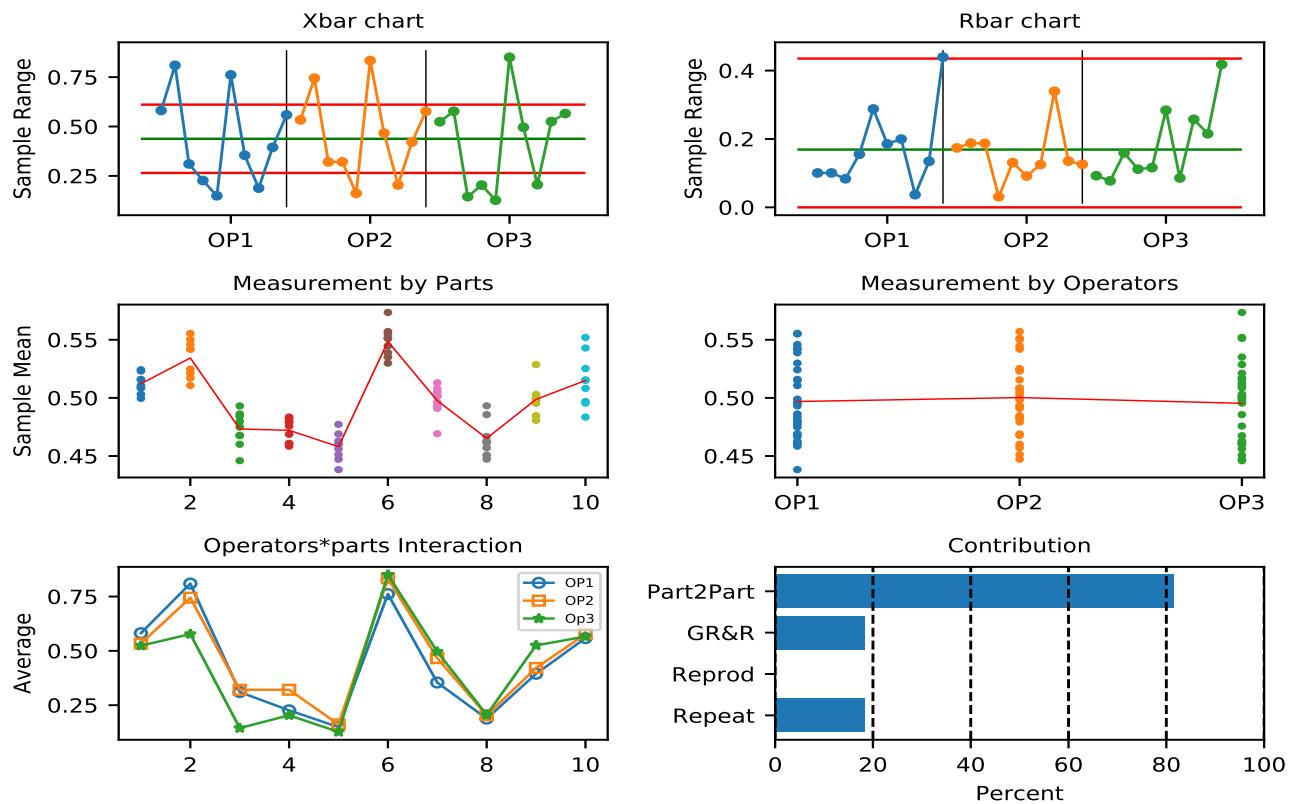
2.28 corner_balance_IH60_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.22	
Equipment Variation(EV, Repeatability)	0.039047941333333336	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.039047941333333336	
Part Variation(PV)	0.064772644444444443	
Total Variation(TV)	0.07563224967365349	
Precision/Tolerance Ratio	30.037	

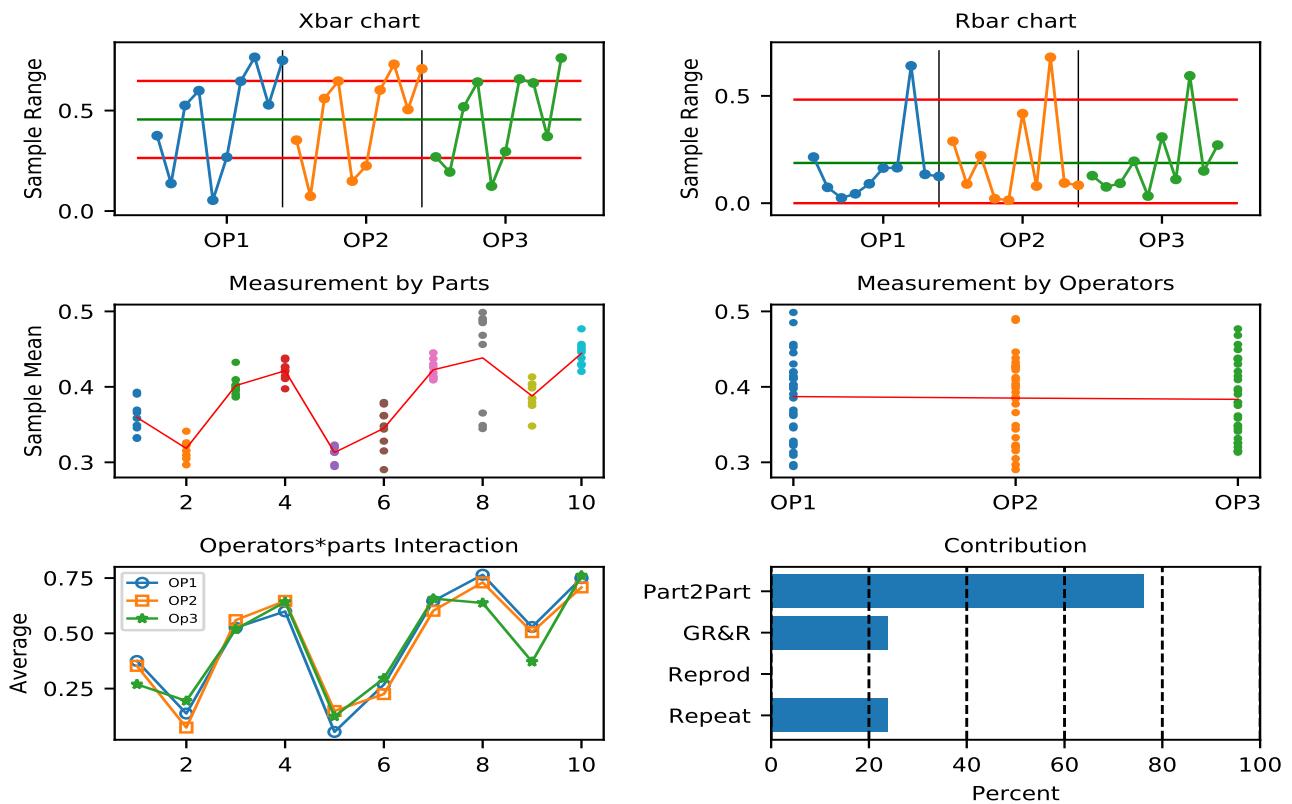
2.29 SFR_55Ip_30IH_BR_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.27	
Equipment Variation(EV, Repeatability)	0.0134978106666666667	
Appraiser Variation(AV, Reproducibility)	0.0007540672275342293	
GRR	0.013518857576615771	
Part Variation(PV)	0.028464308888888904	
Total Variation(TV)	0.03151152790168864	
Precision/Tolerance Ratio	11.111	

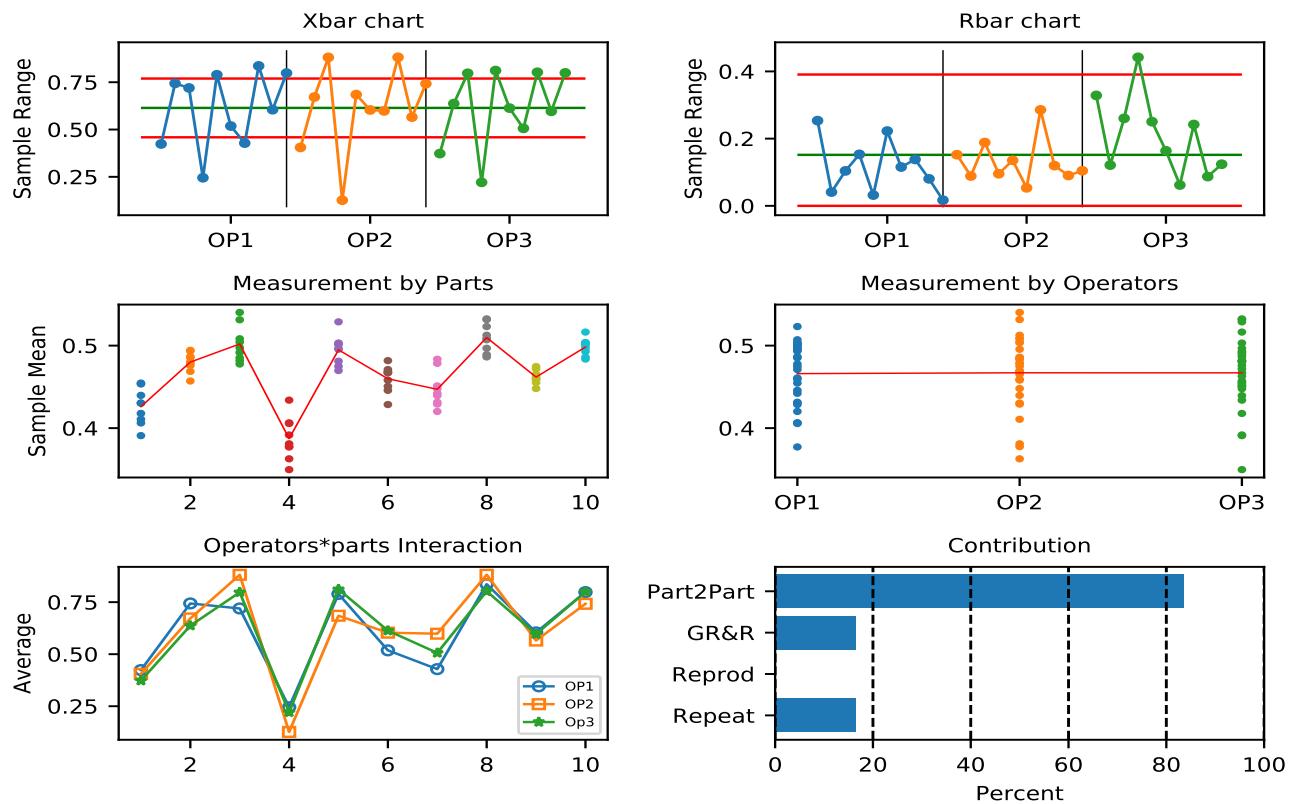
2.30 SFR_55Ip_60IH_BR_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.27	
Equipment Variation(EV, Repeatability)	0.023062862666666666	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.023062862666666666	
Part Variation(PV)	0.041338440000000004	
Total Variation(TV)	0.04733669037876568	
Precision/Tolerance Ratio	18.956	

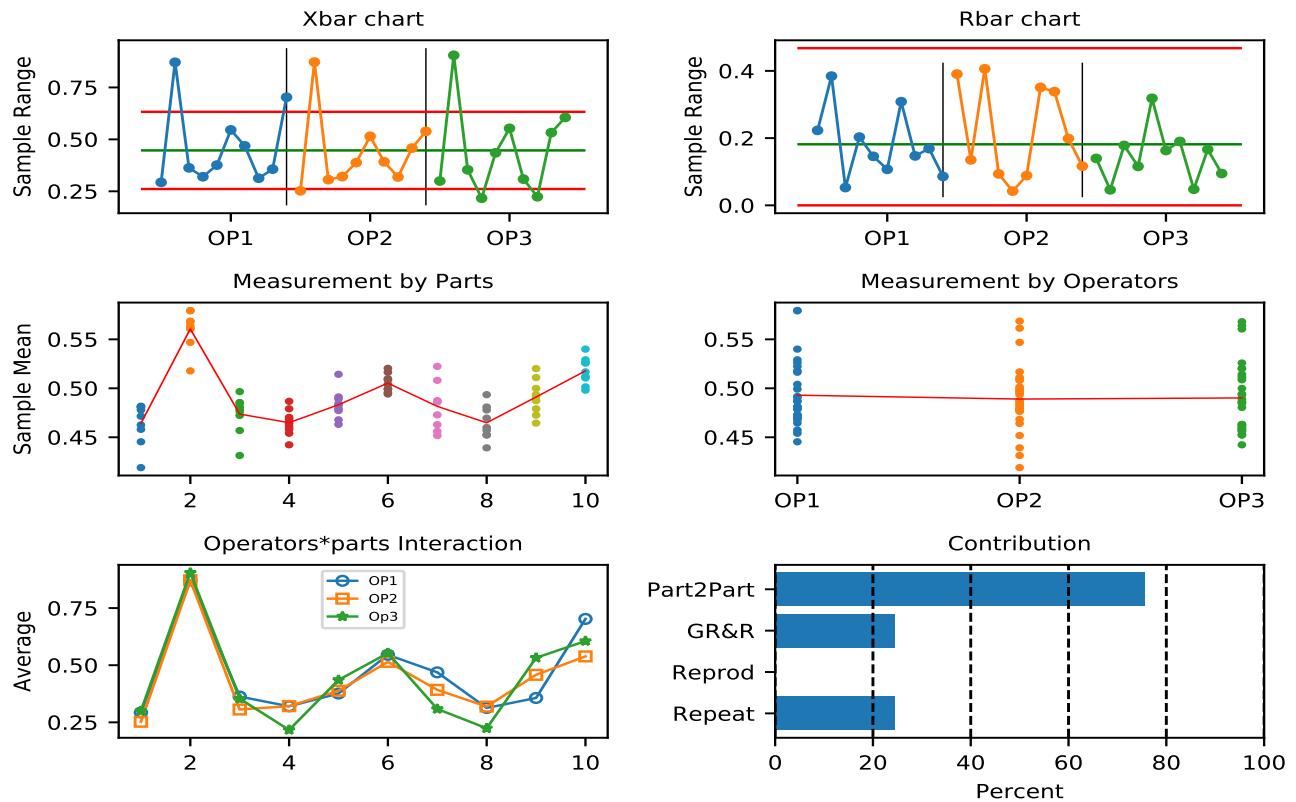
2.31 SFR_55Ip_60IH_TR_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.22	
Equipment Variation(EV, Repeatability)	0.017078058666666666	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.017078058666666666	
Part Variation(PV)	0.038517526666666684	
Total Variation(TV)	0.042133833772153795	
Precision/Tolerance Ratio	13.137	

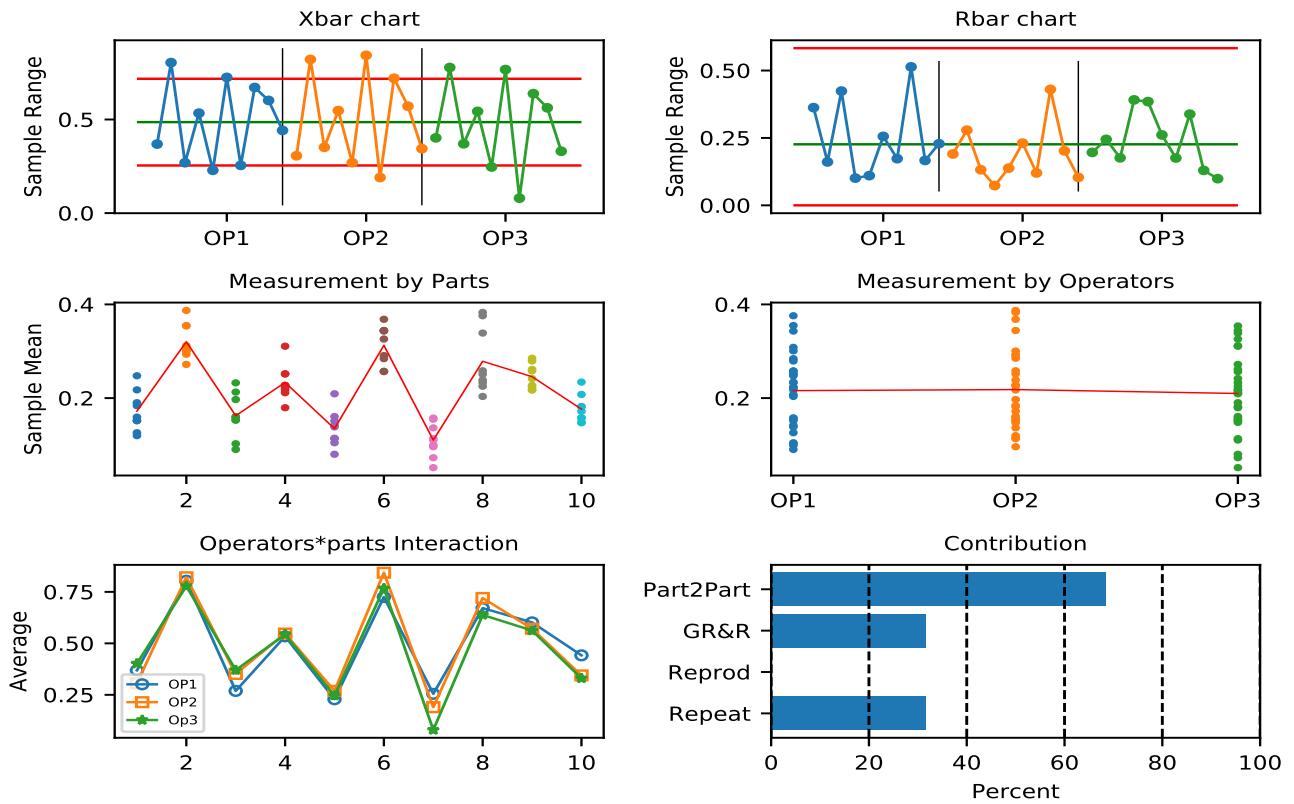
2.32 SFR_55Ip_30IH_BR_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.22	
Equipment Variation(EV, Repeatability)	0.017219850666666665	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.017219850666666665	
Part Variation(PV)	0.03034142222222185	
Total Variation(TV)	0.03488732089813517	
Precision/Tolerance Ratio	13.246	

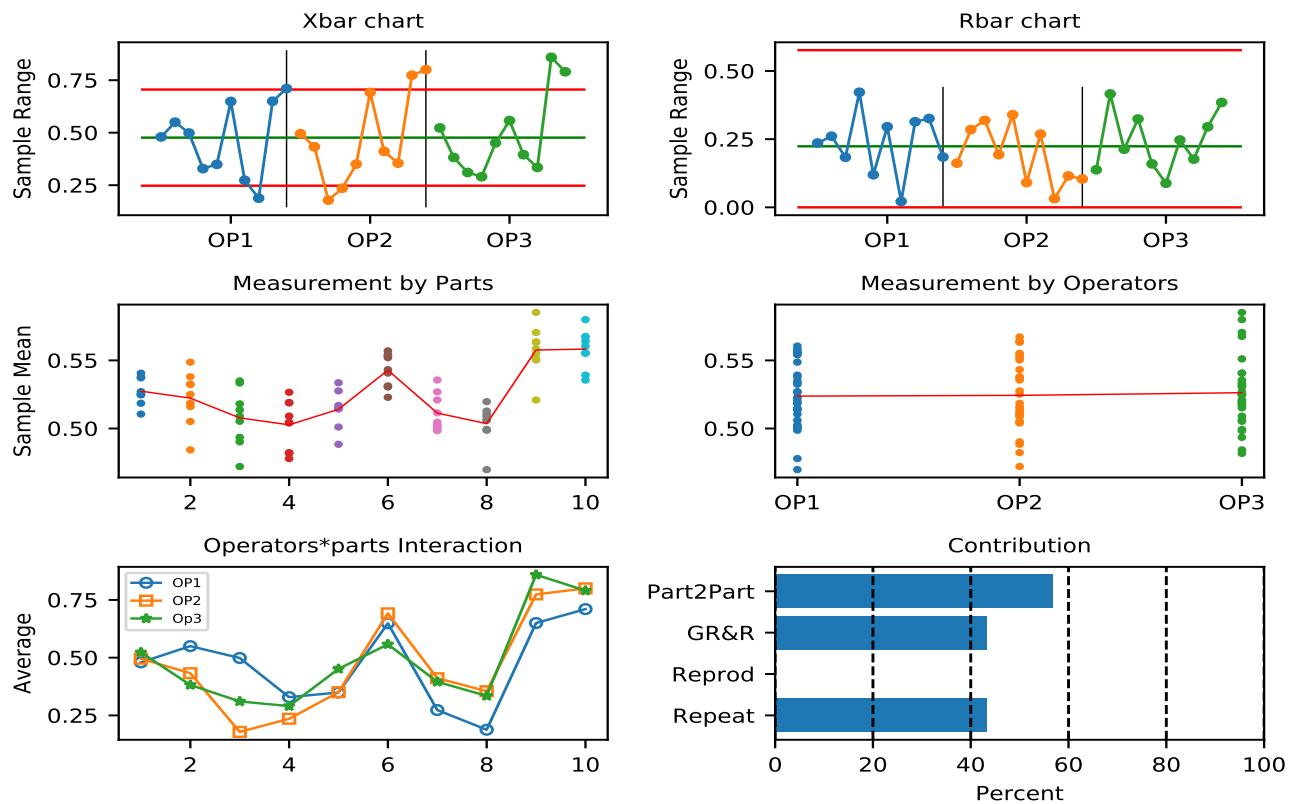
2.33 corner_balance_IH60_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.2	
Equipment Variation(EV, Repeatability)	0.04487716800000001	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.04487716800000001	
Part Variation(PV)	0.06608347777777776	
Total Variation(TV)	0.0798810756243697	
Precision/Tolerance Ratio	33.658	

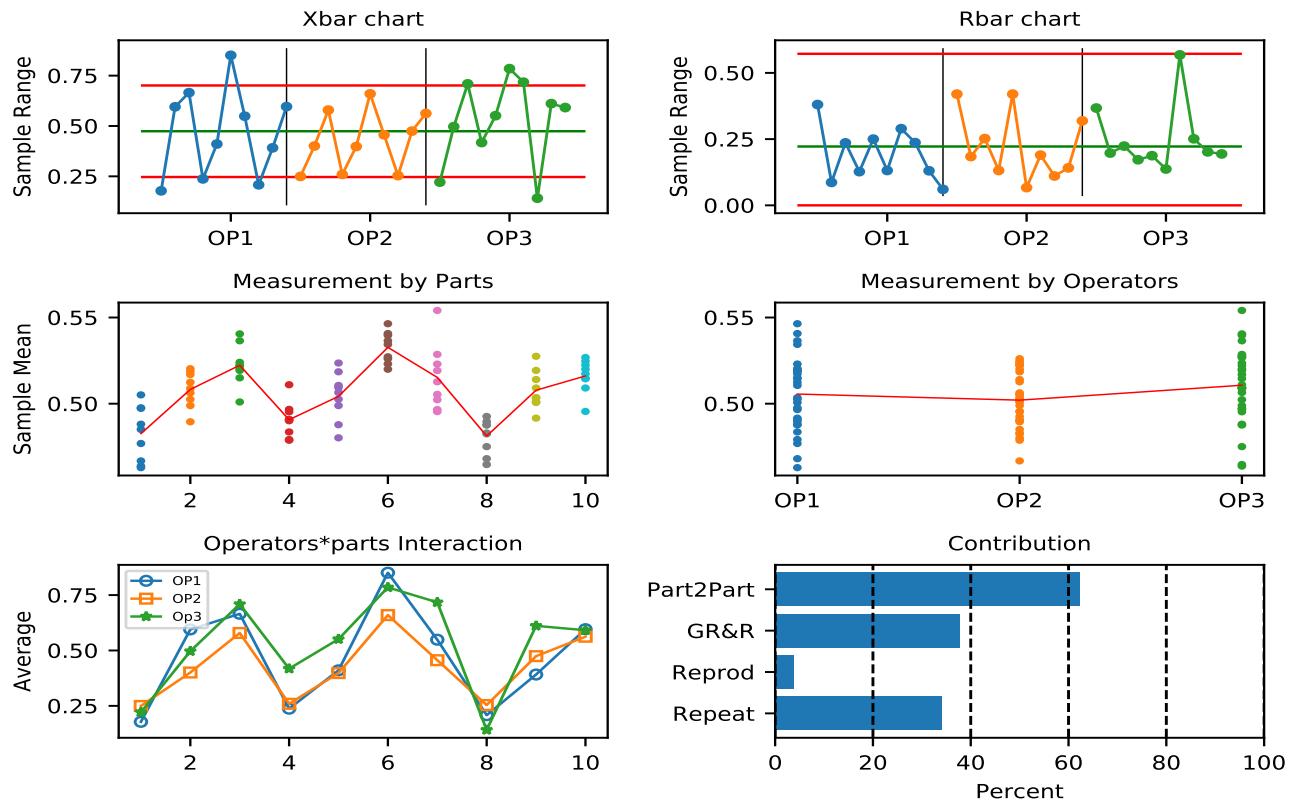
2.34 SFR_55Ip_30IH_TL_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.2	
Equipment Variation(EV, Repeatability)	0.015262333333333326	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.015262333333333326	
Part Variation(PV)	0.017498751111111117	
Total Variation(TV)	0.023219498470604186	
Precision/Tolerance Ratio	11.447	

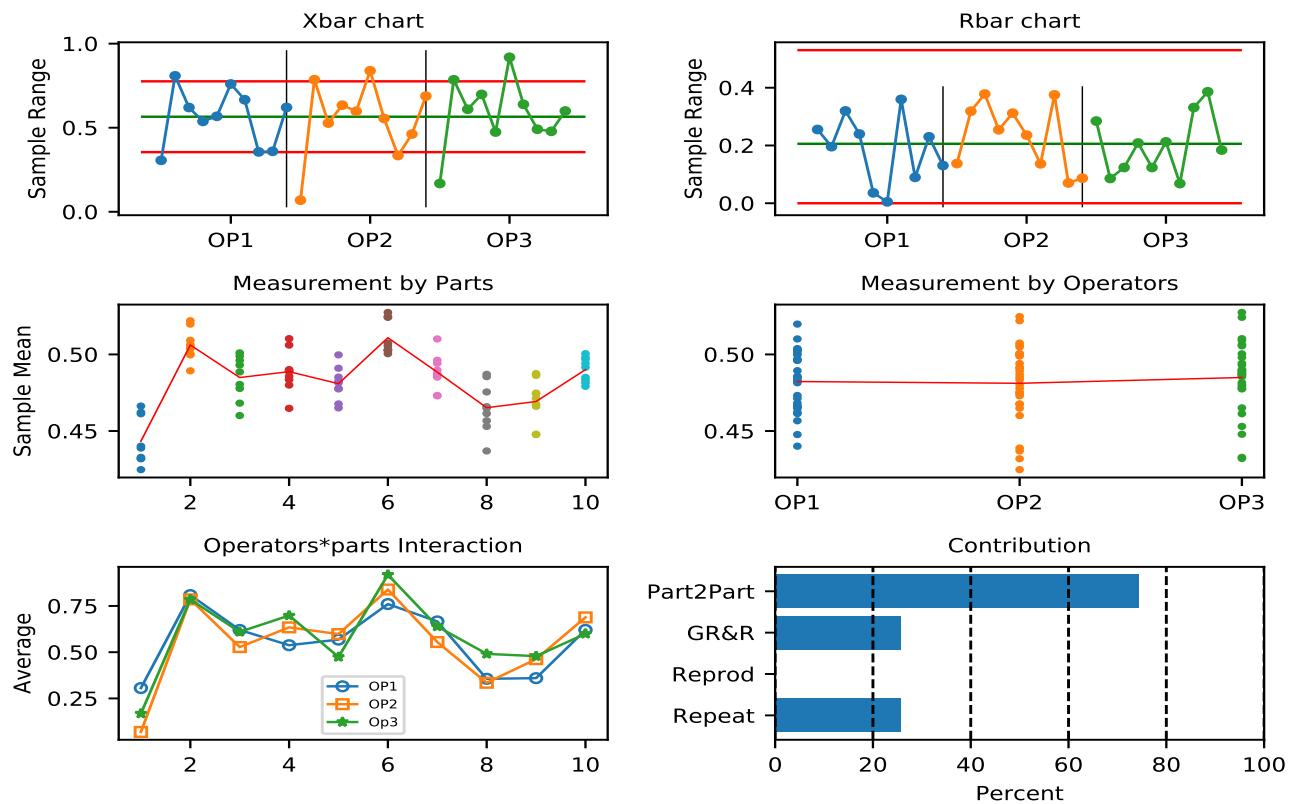
2.35 SFR_55lp_Center_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.22	
Equipment Variation(EV, Repeatability)	0.011969608000000001	
Appraiser Variation(AV, Reproducibility)	0.003966081798570206	
GRR	0.012609572574302981	
Part Variation(PV)	0.016184422222222262	
Total Variation(TV)	0.02051674543327415	
Precision/Tolerance Ratio	9.7	

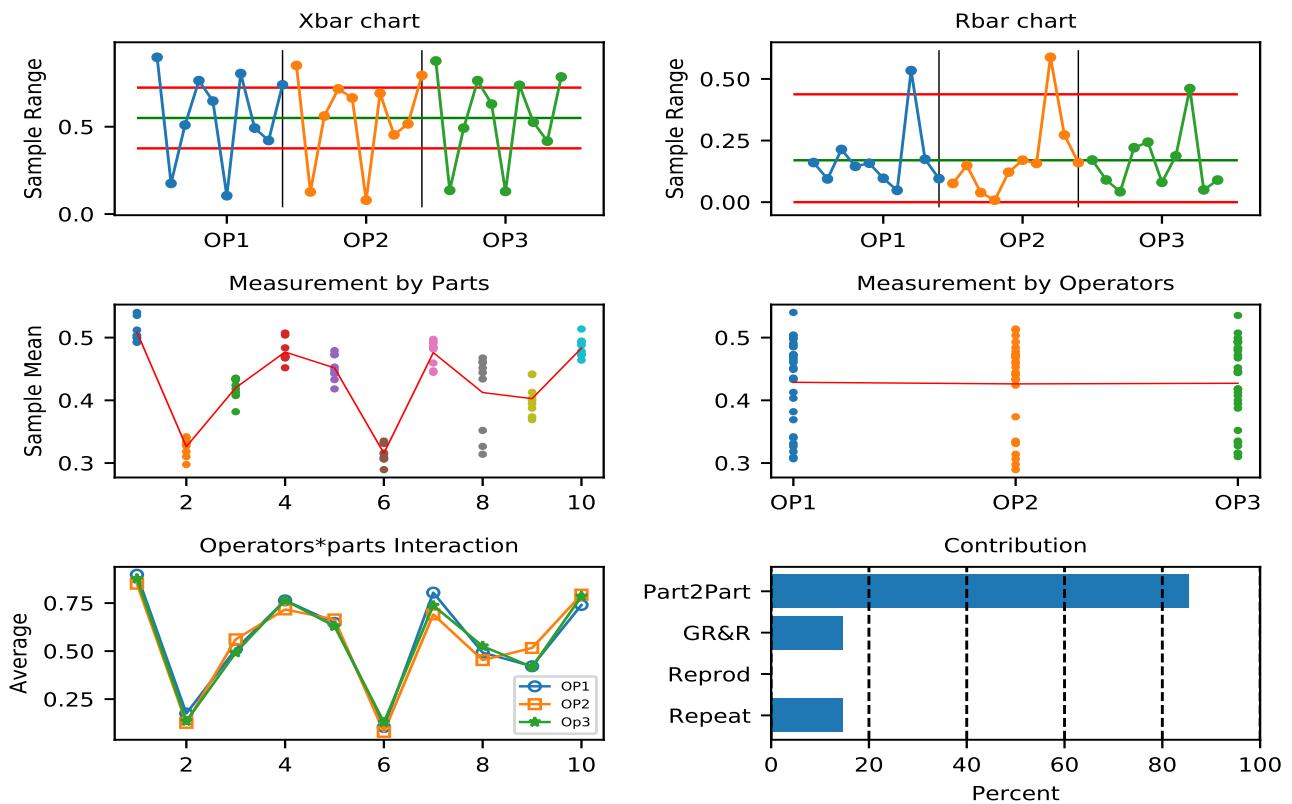
2.36 SFR_55Ip_30IH_BL_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.22	
Equipment Variation(EV, Repeatability)	0.012477696	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.012477696	
Part Variation(PV)	0.021245986666666702	
Total Variation(TV)	0.024639091844233935	
Precision/Tolerance Ratio	9.598	

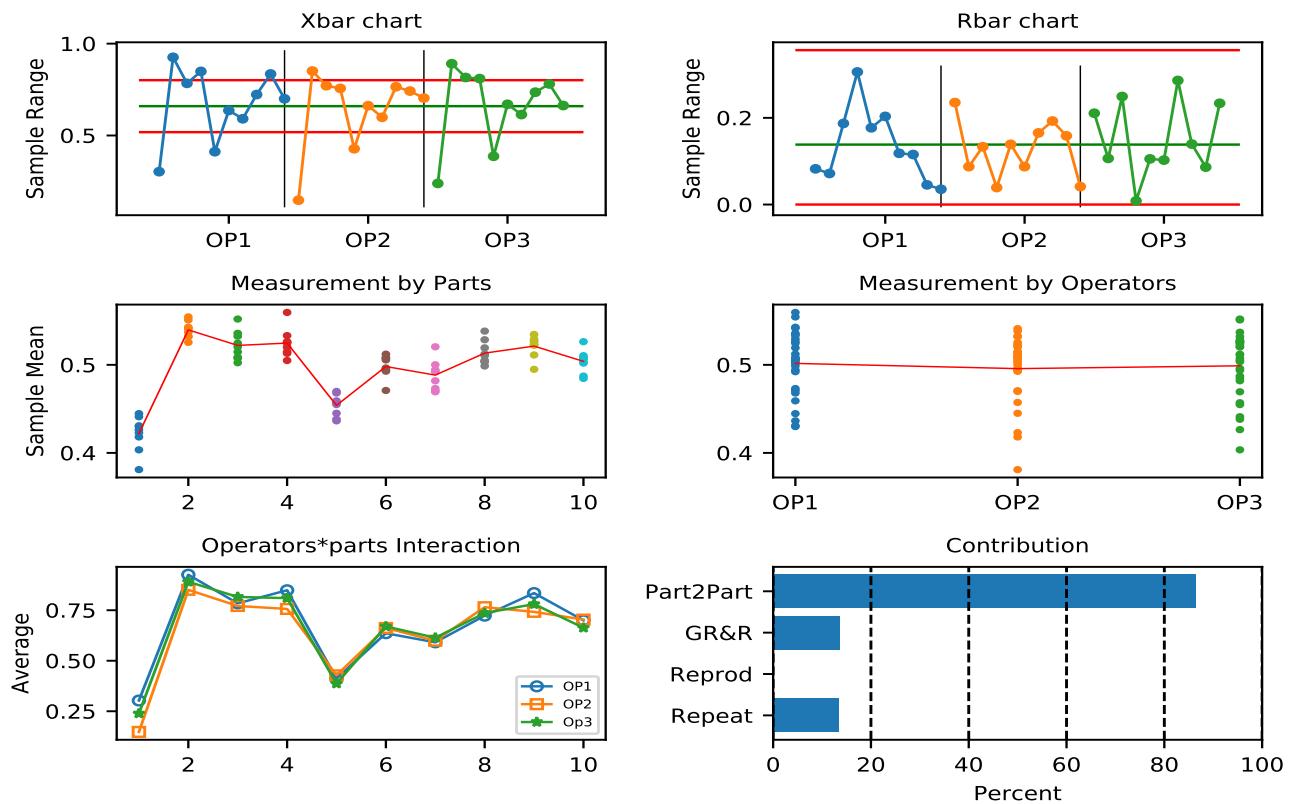
2.37 SFR_55Ip_60IH_BR_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.2	
Equipment Variation(EV, Repeatability)	0.025164141333333334	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.025164141333333334	
Part Variation(PV)	0.060738773333333315	
Total Variation(TV)	0.06574520967402886	
Precision/Tolerance Ratio	18.873	

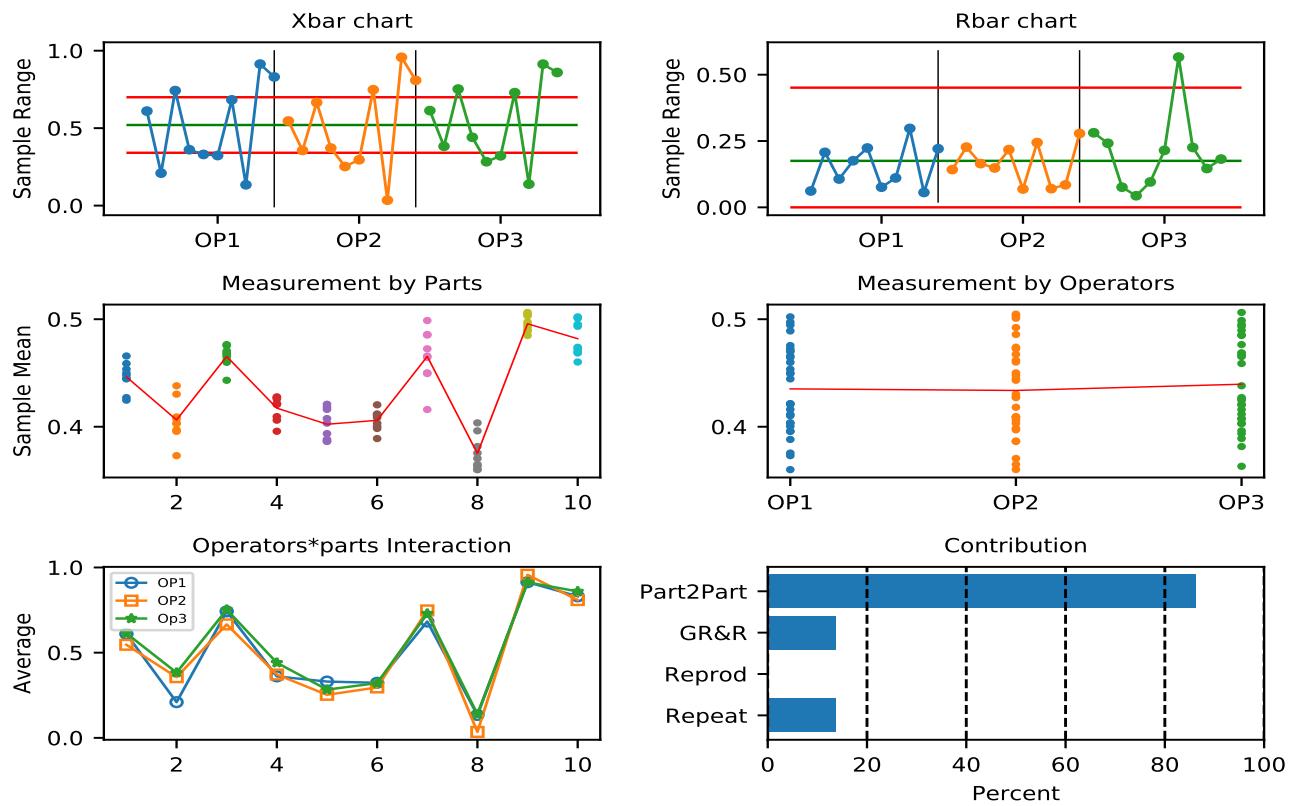
2.38 SFR_55Ip_30IH_TR_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.2	
Equipment Variation(EV, Repeatability)	0.014586851999999994	
Appraiser Variation(AV, Reproducibility)	0.0015939189165013522	
GRR	0.014673678093180478	
Part Variation(PV)	0.03701793333333332	
Total Variation(TV)	0.03982014838060495	
Precision/Tolerance Ratio	11.005	

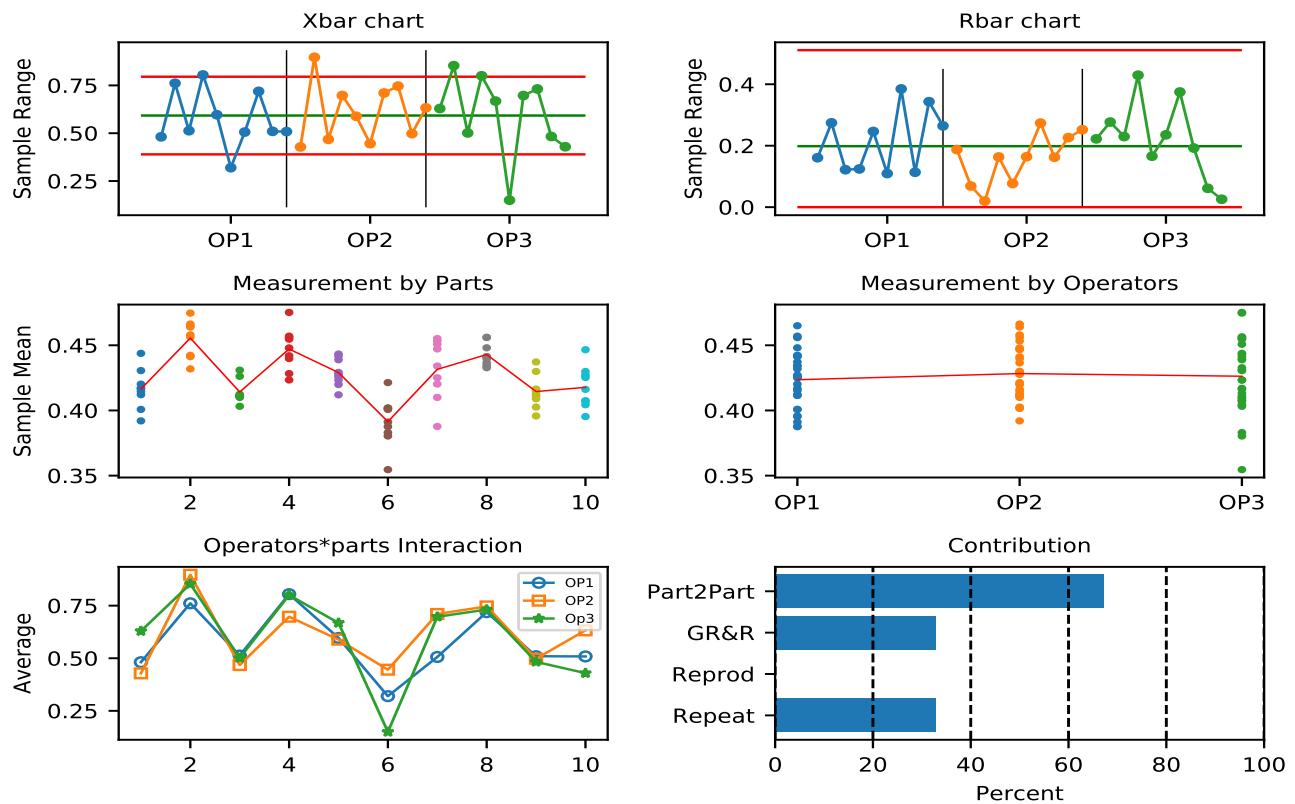
2.39 SFR_55Ip_60IH_TL_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.2	
Equipment Variation(EV, Repeatability)	0.01513432666666666666	
Appraiser Variation(AV, Reproducibility)	0.0012488110583298861	
GRR	0.015185762170954239	
Part Variation(PV)	0.037968724444444484	
Total Variation(TV)	0.04089292614439496	
Precision/Tolerance Ratio	11.389	

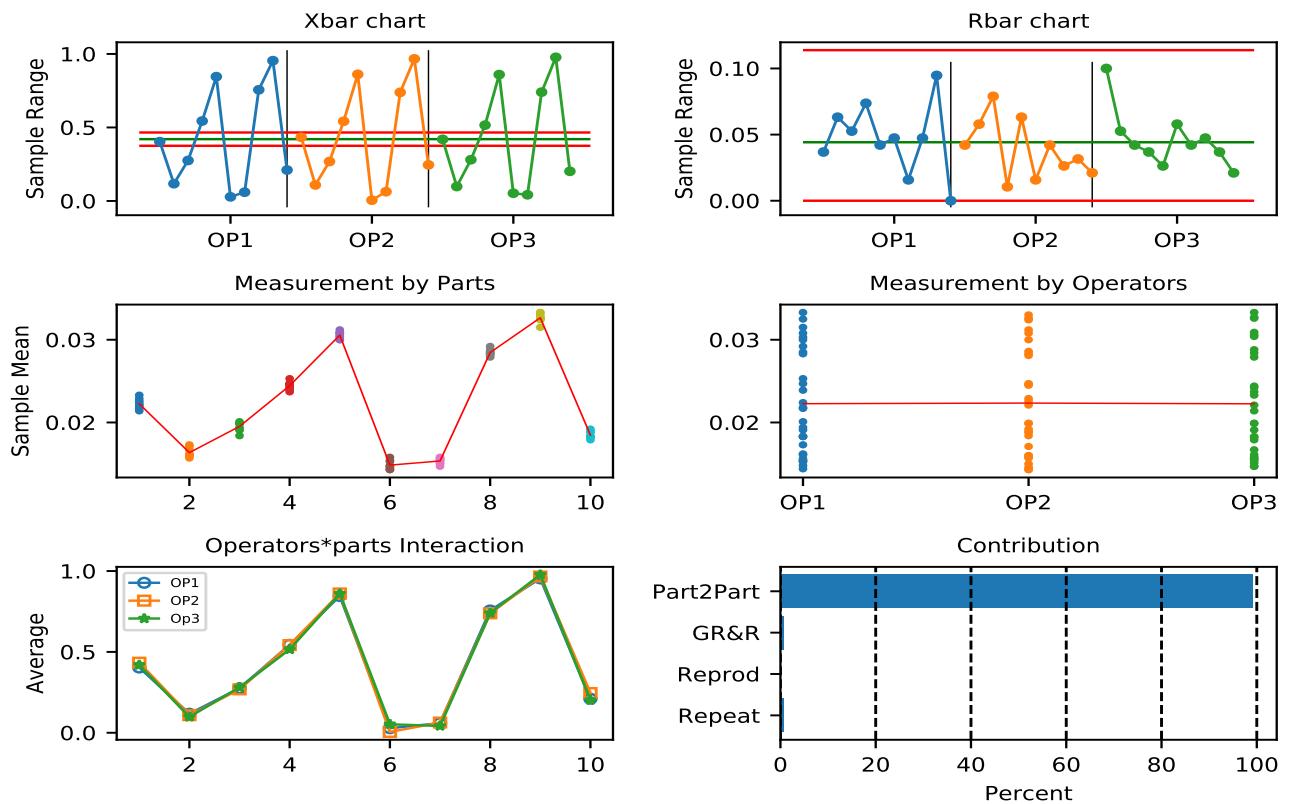
2.40 SFR_55Ip_60IH_BL_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.2	
Equipment Variation(EV, Repeatability)	0.014137843999999998	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.014137843999999998	
Part Variation(PV)	0.02018683333333331	
Total Variation(TV)	0.024645220084148423	
Precision/Tolerance Ratio	10.603	

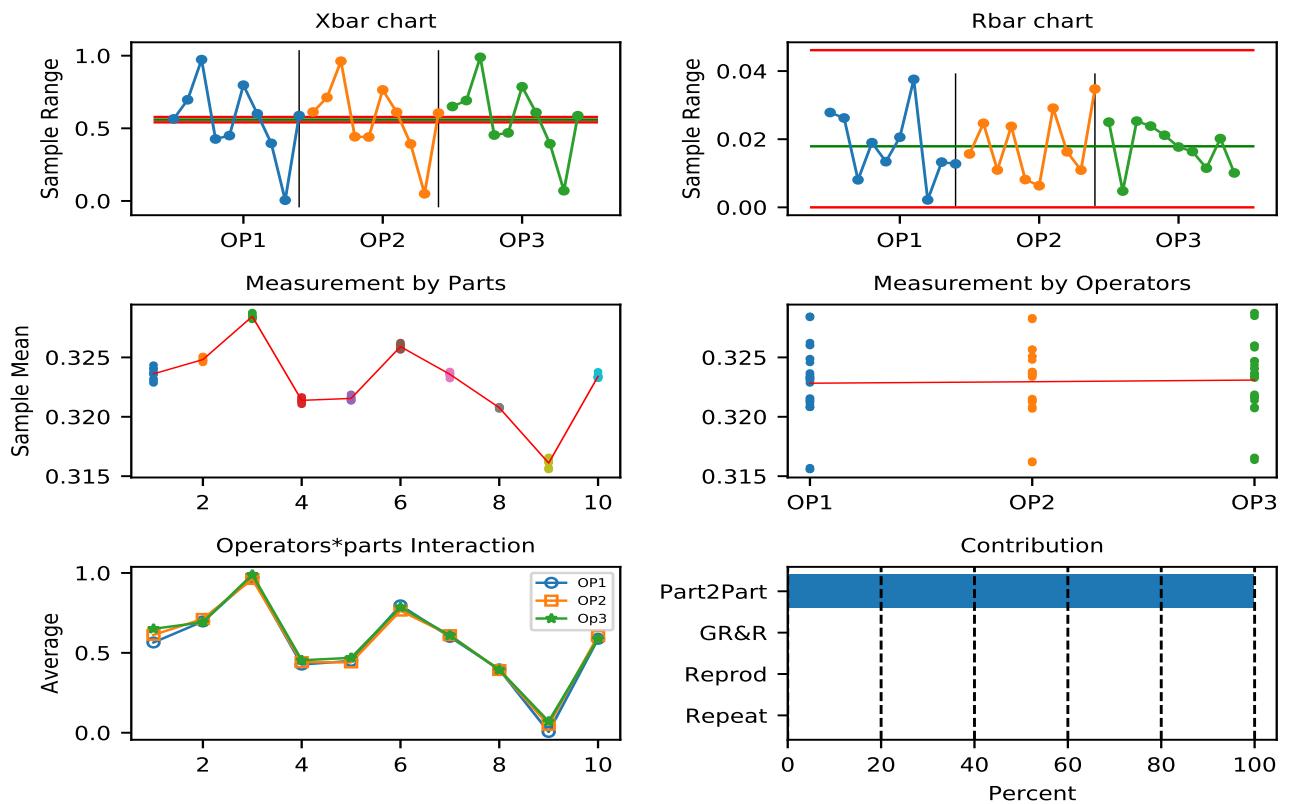
2.41 max_delta_B_Gb



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	0.35	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.0004962720000000005	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.0004962720000000005	
Part Variation(PV)	0.005603375555555555	
Total Variation(TV)	0.005625309192798342	
Precision/Tolerance Ratio	0.851	

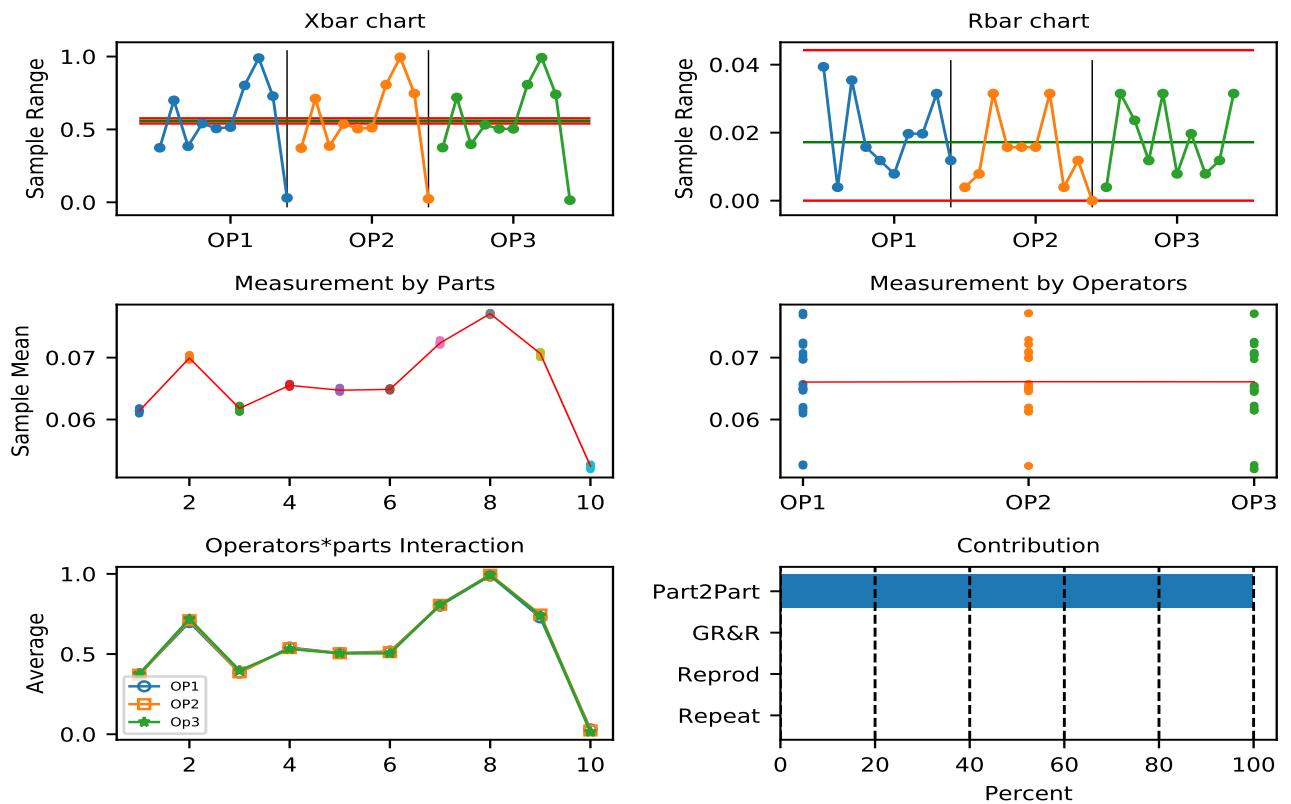
2.42 color_b_g_ratio



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.04	
lower limit(LSL)	0.96	
Equipment Variation(EV, Repeatability)	0.00014009252380283872	
Appraiser Variation(AV, Reproducibility)	0.00013703026451940303	
GRR	0.00019596736621107735	
Part Variation(PV)	0.003884810396708526	
Total Variation(TV)	0.003889749995436	
Precision/Tolerance Ratio	1.47	

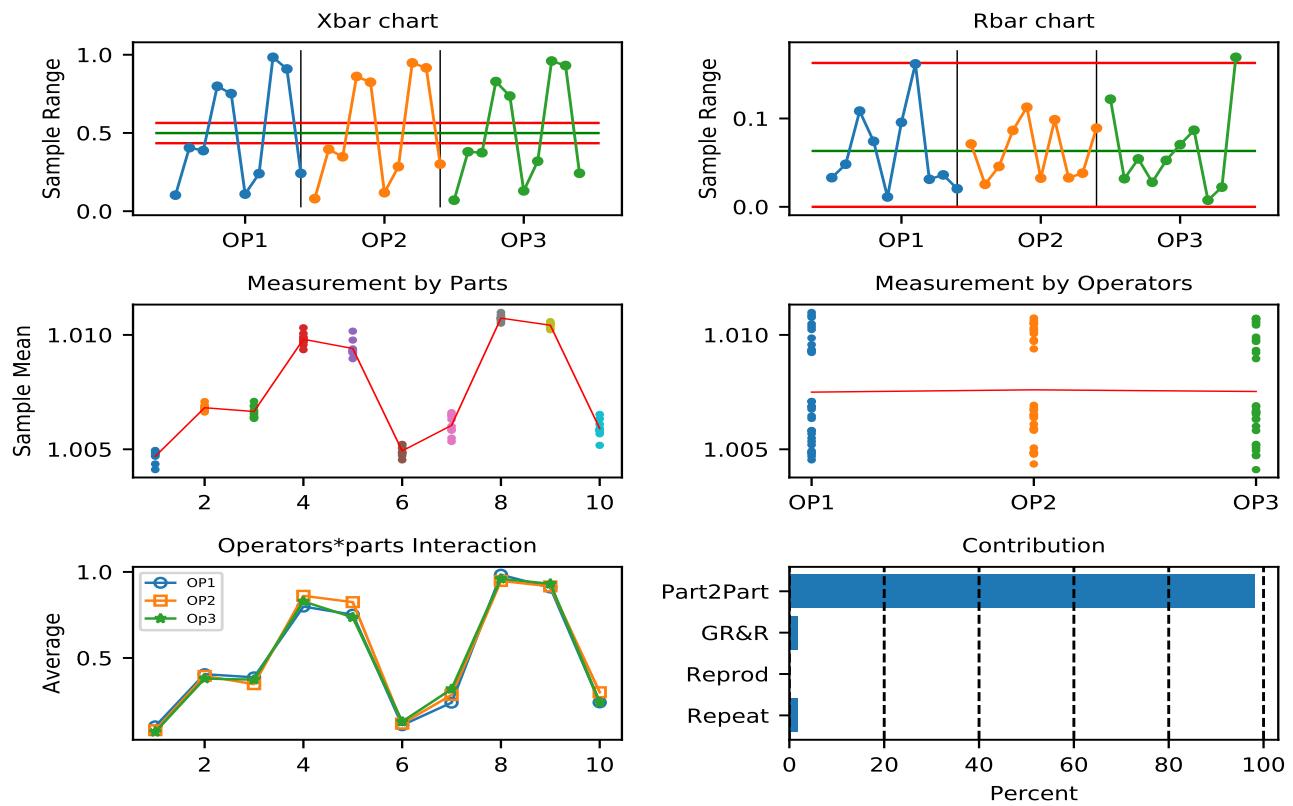
2.43 max_delta_R_Gr



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.04	
lower limit(LSL)	0.96	
Equipment Variation(EV, Repeatability)	0.00025798266666666656	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.00025798266666666656	
Part Variation(PV)	0.00774615111111112	
Total Variation(TV)	0.007750445928620389	
Precision/Tolerance Ratio	1.935	

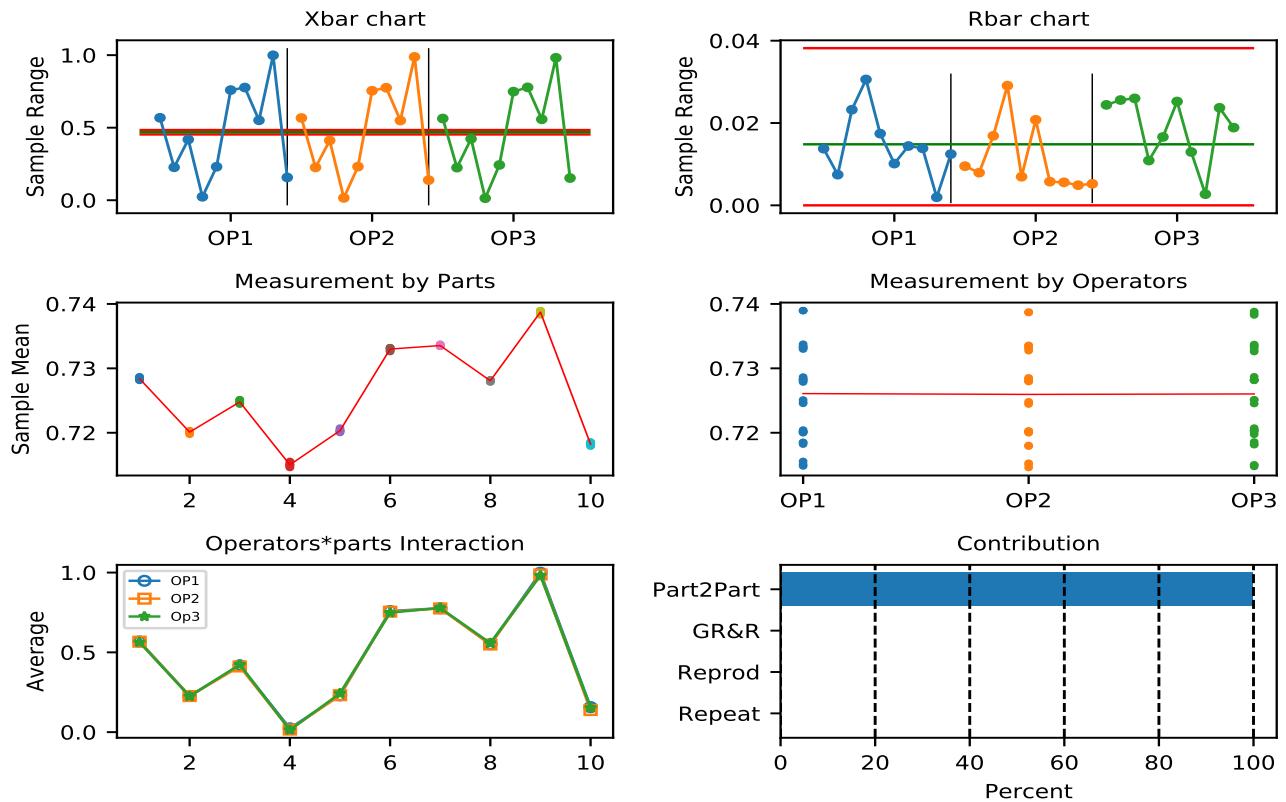
2.44 color_gr_gb_ratio



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	0.84	
lower limit(LSL)	0.62	
Equipment Variation(EV, Repeatability)	0.00025673833650730174	
Appraiser Variation(AV, Reproducibility)	2.444589944012896e-05	
GRR	0.00025789954523413455	
Part Variation(PV)	0.0019010152284297608	
Total Variation(TV)	0.0019184293247742617	
Precision/Tolerance Ratio	0.703	

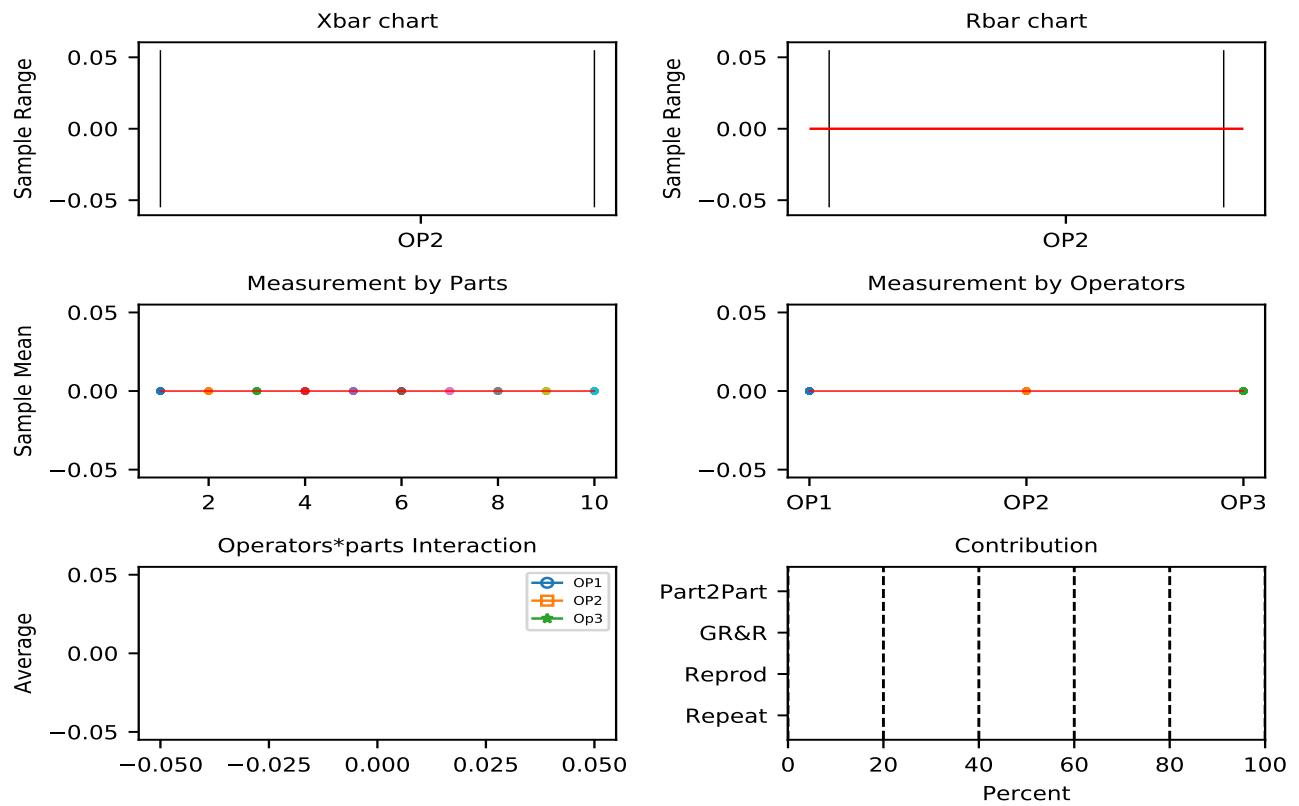
2.45 color_r_g_ratio



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	0.84	
lower limit(LSL)	0.62	
Equipment Variation(EV, Repeatability)	0.0002138144248138171	
Appraiser Variation(AV, Reproducibility)	5.392777056536153e-05	
GRR	0.0002205103460081039	
Part Variation(PV)	0.007459722272084623	
Total Variation(TV)	0.007462980717470198	
Precision/Tolerance Ratio	0.601	

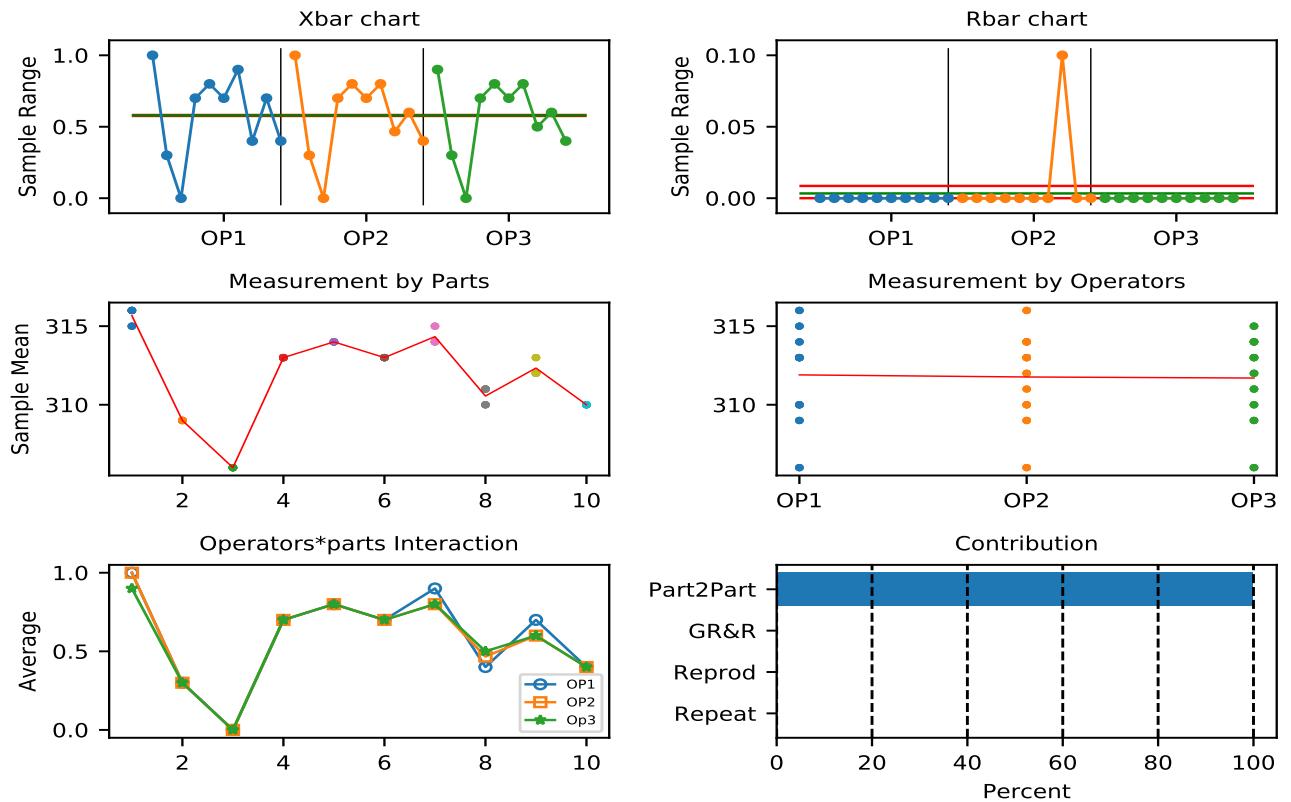
2.46 defect_cluster



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	5.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.0	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.0	
Part Variation(PV)	0.0	
Total Variation(TV)	0.0	
Precision/Tolerance Ratio	0.0	

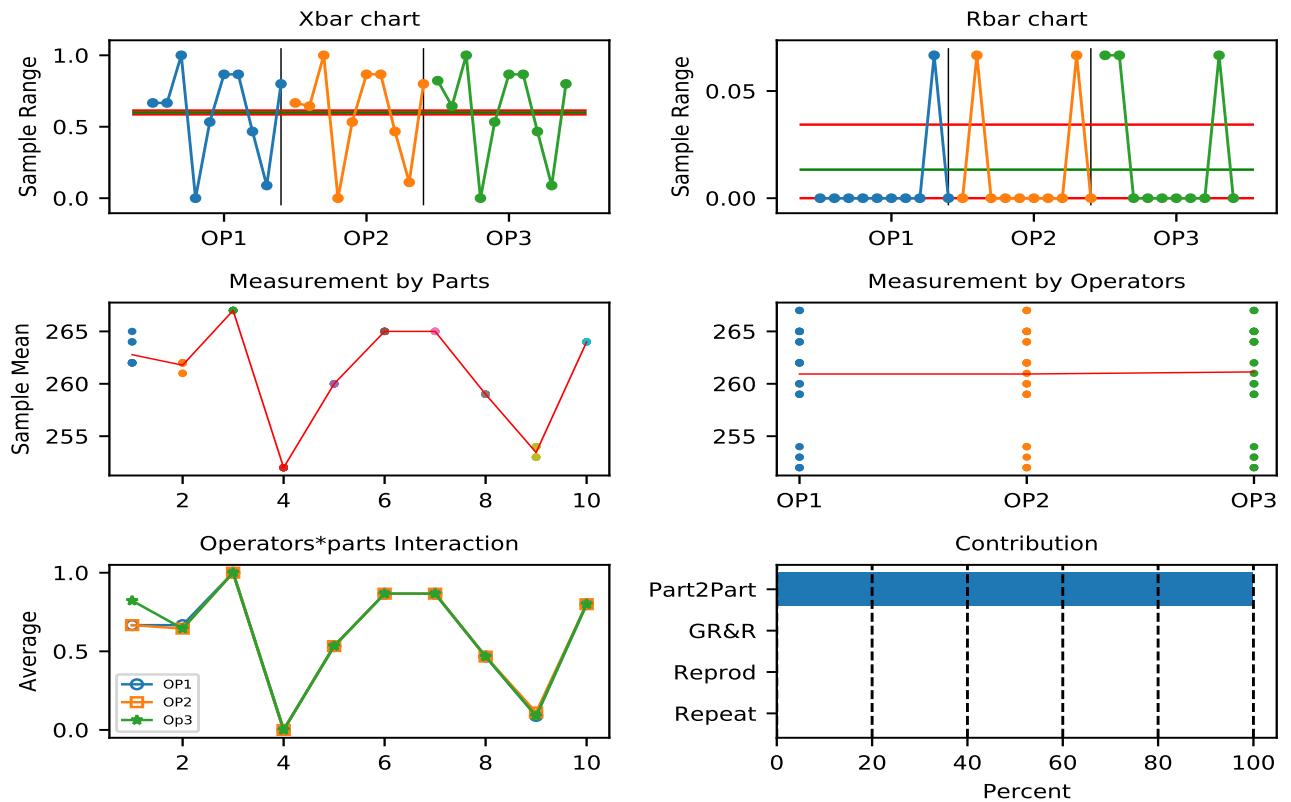
2.47 OC_center_x



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	5.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.01969333333333334	
Appraiser Variation(AV, Reproducibility)	0.10455819824738516	
GRR	0.10639663621805567	
Part Variation(PV)	3.041133333333339	
Total Variation(TV)	3.0429939525588385	
Precision/Tolerance Ratio	12.768	

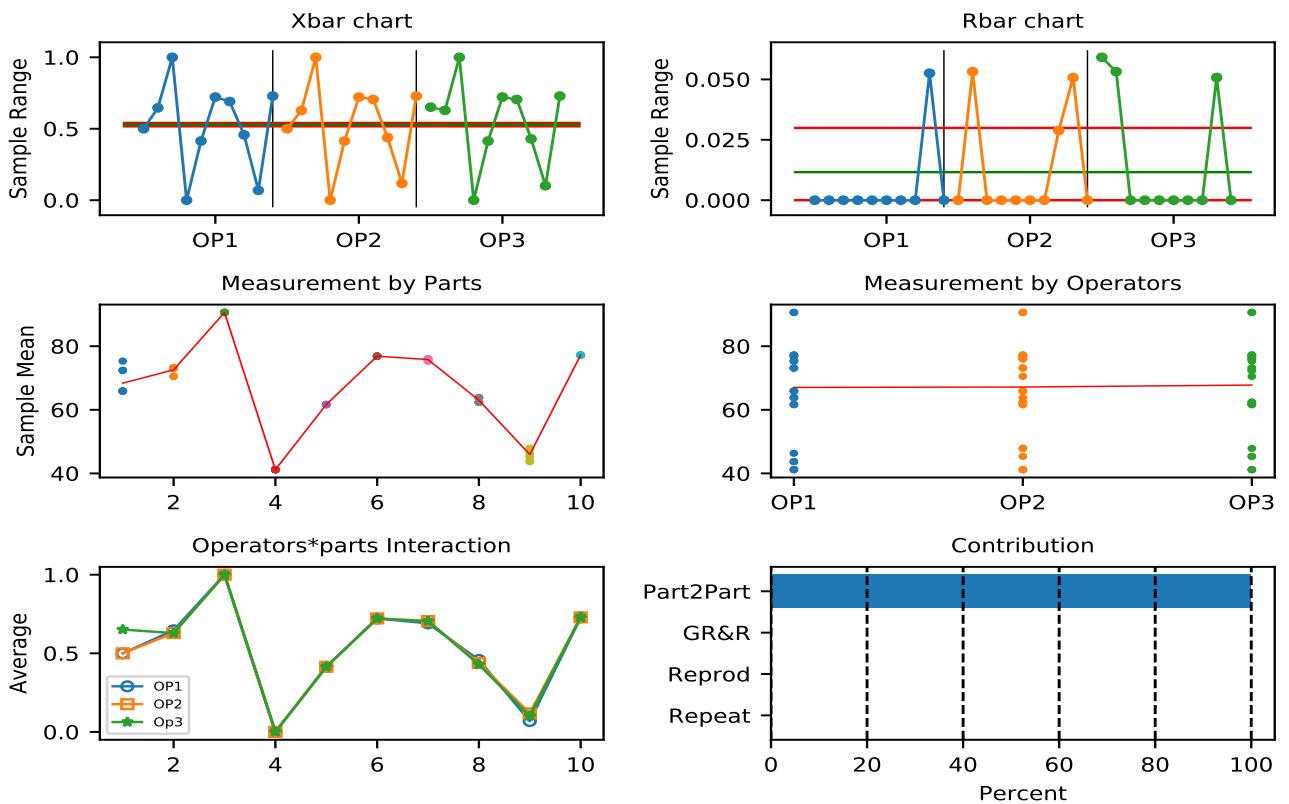
2.48 OC_center_y



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.5	
Equipment Variation(EV, Repeatability)	0.11816000000000002	
Appraiser Variation(AV, Reproducibility)	0.10237163448275917	
GRR	0.15633853378700868	
Part Variation(PV)	4.718999999999999	
Total Variation(TV)	4.721589005530518	
Precision/Tolerance Ratio	187.606	

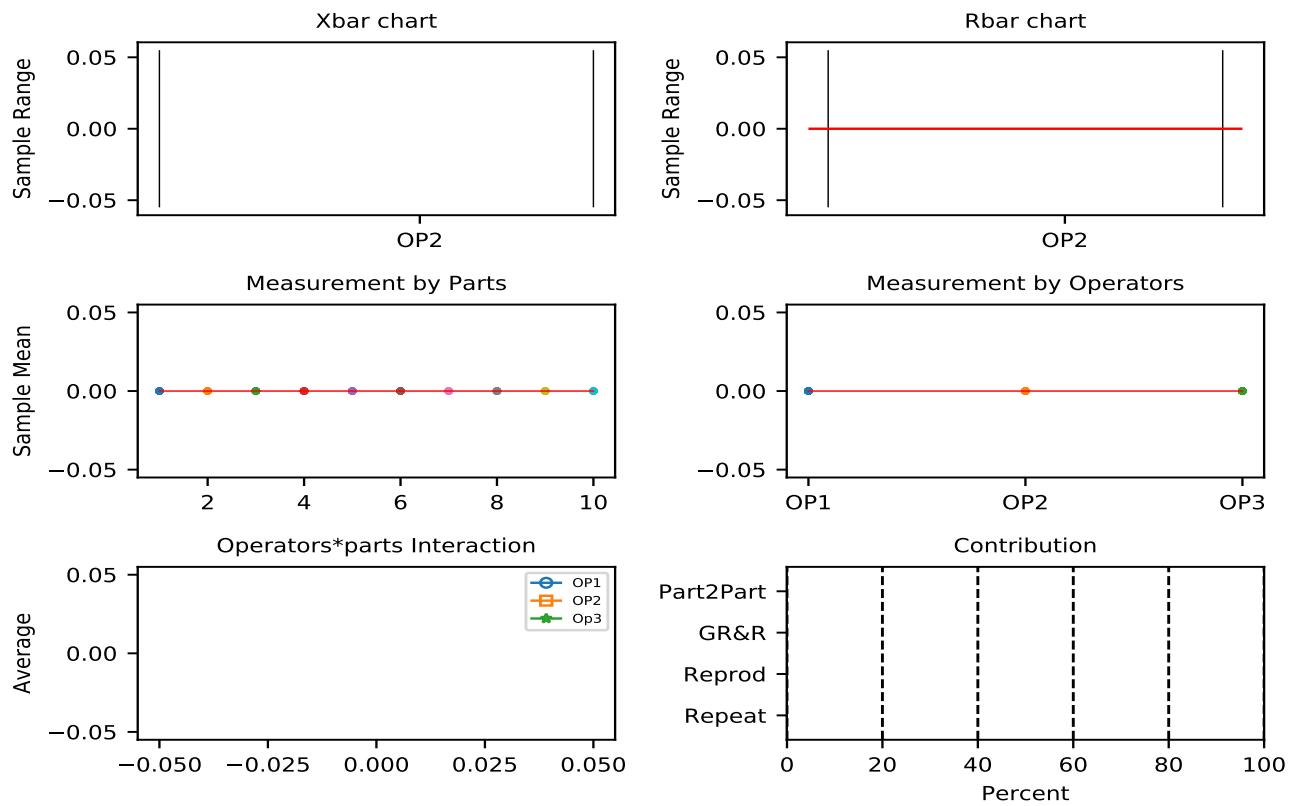
2.49 OC_shift_r_um



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.5	
Equipment Variation(EV, Repeatability)	0.3393555199999997	
Appraiser Variation(AV, Reproducibility)	0.38633168826299813	
GRR	0.5142123513788914	
Part Variation(PV)	15.551999319999998	
Total Variation(TV)	15.56049797376649	
Precision/Tolerance Ratio	617.055	

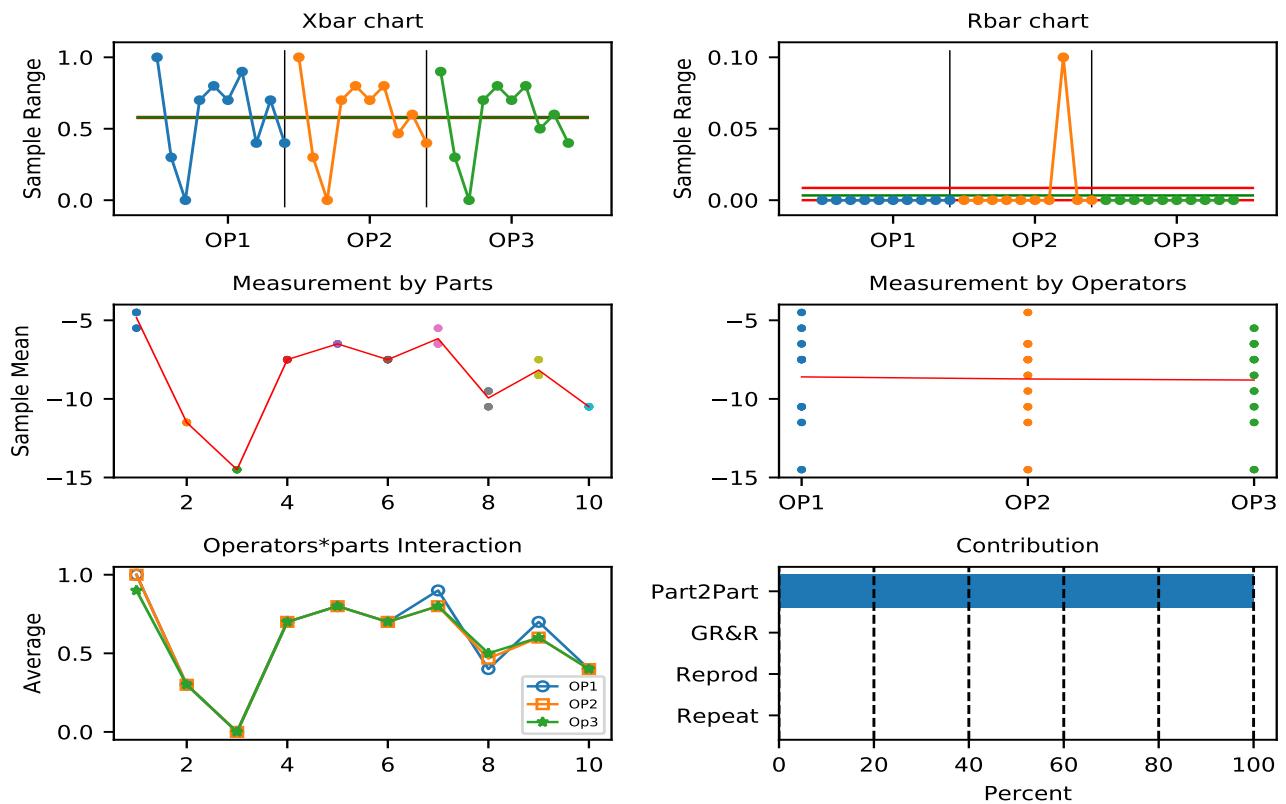
2.50 defect_singlet



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	0.07	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.0	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.0	
Part Variation(PV)	0.0	
Total Variation(TV)	0.0	
Precision/Tolerance Ratio	0.0	

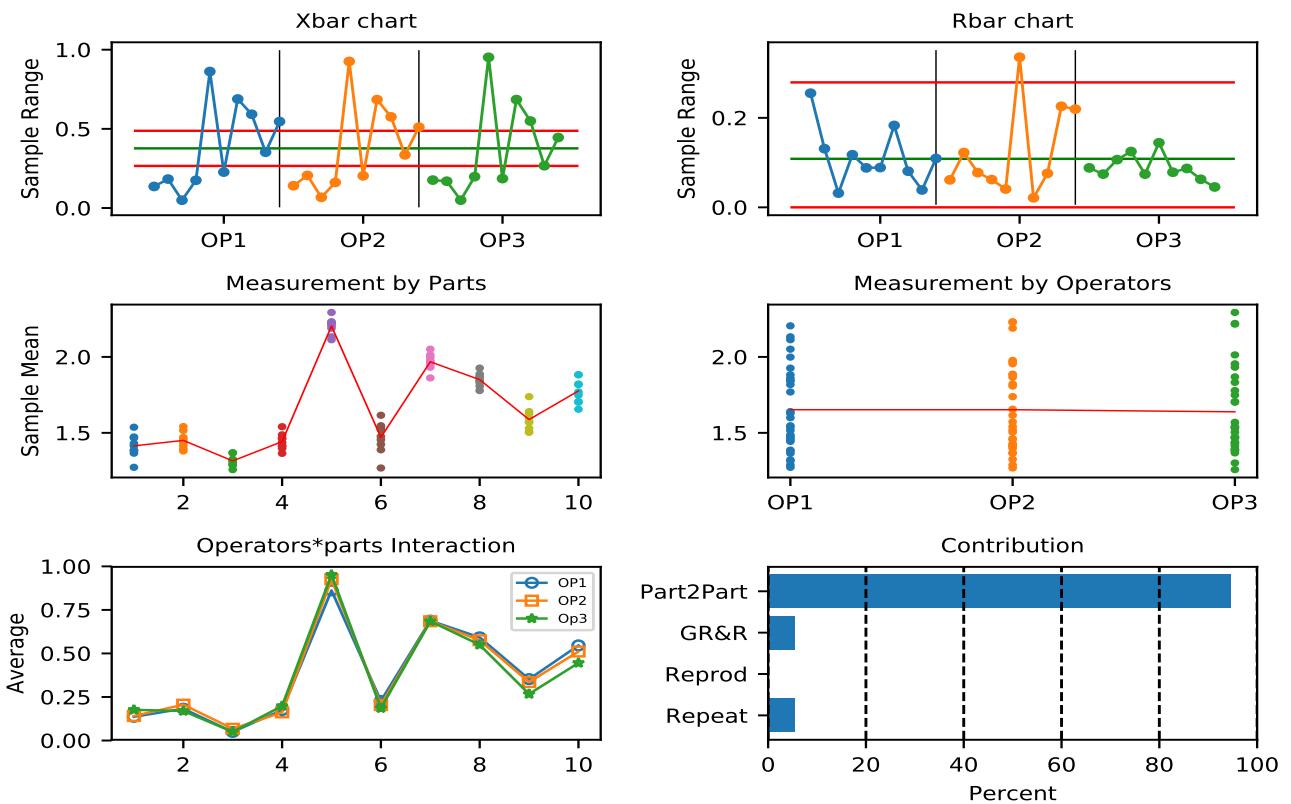
2.51 OC_shift_x



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	0.07	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.01969333333333334	
Appraiser Variation(AV, Reproducibility)	0.10455819824739167	
GRR	0.10639663621806206	
Part Variation(PV)	3.041133333333337	
Total Variation(TV)	3.042993952558833	
Precision/Tolerance Ratio	911.971	

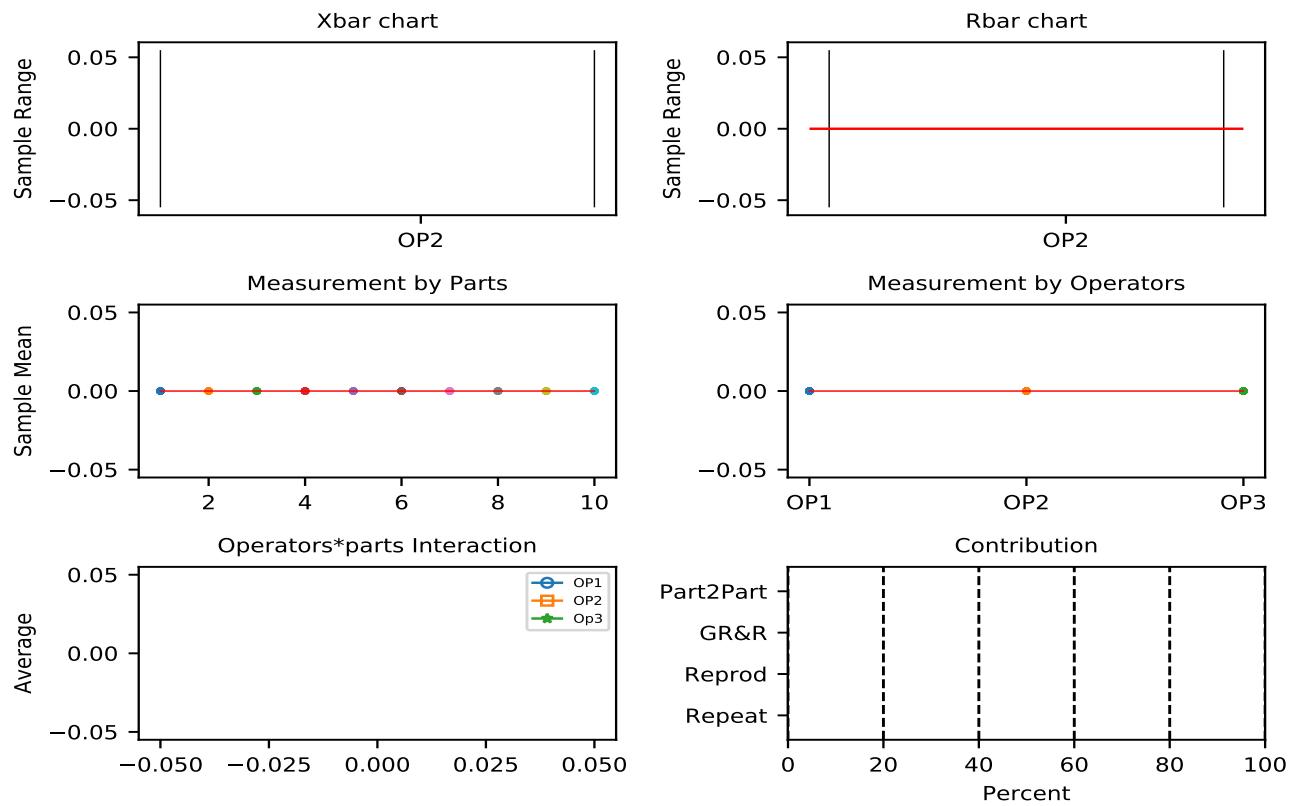
2.52 defect_col



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	10000.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.06630351466666667	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.06630351466666667	
Part Variation(PV)	0.2792948888888889	
Total Variation(TV)	0.28705712152219753	
Precision/Tolerance Ratio	0.004	

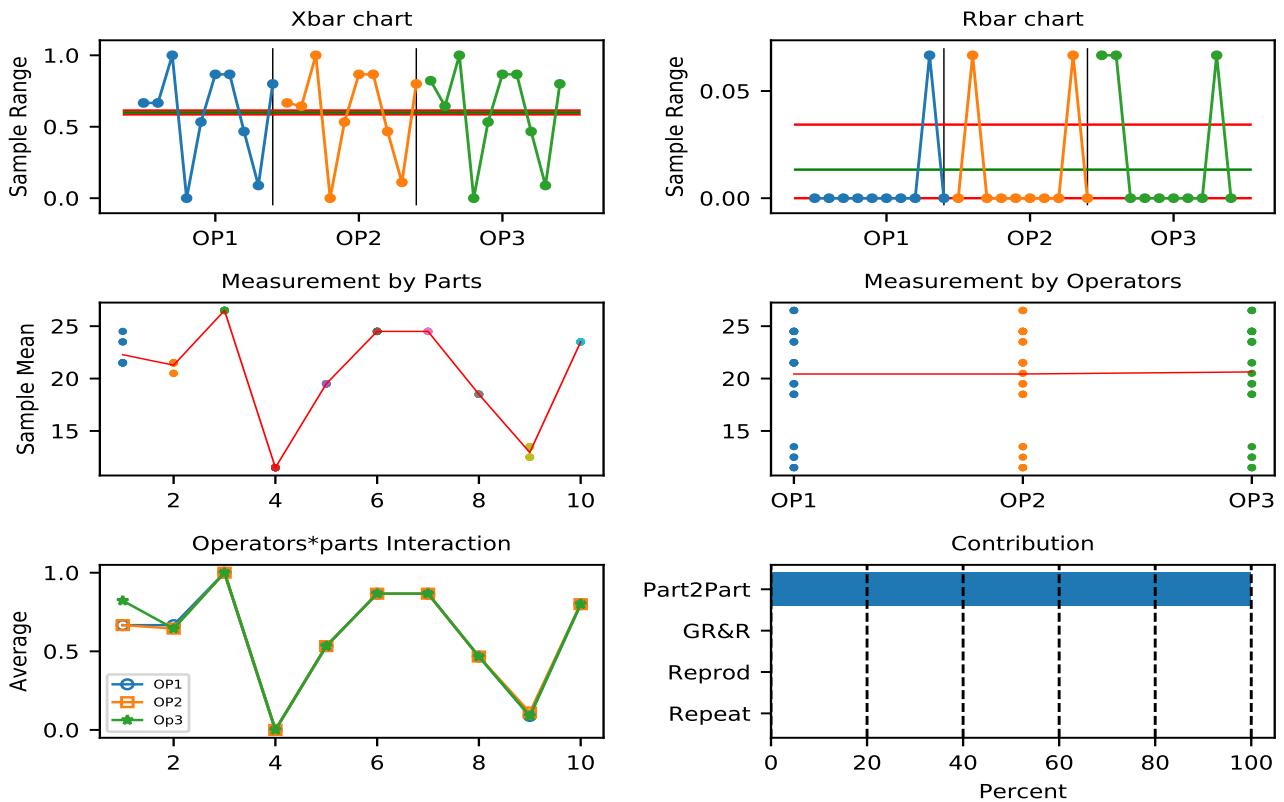
2.53 defect_couplet



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	10000.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.0	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.0	
Part Variation(PV)	0.0	
Total Variation(TV)	0.0	
Precision/Tolerance Ratio	0.0	

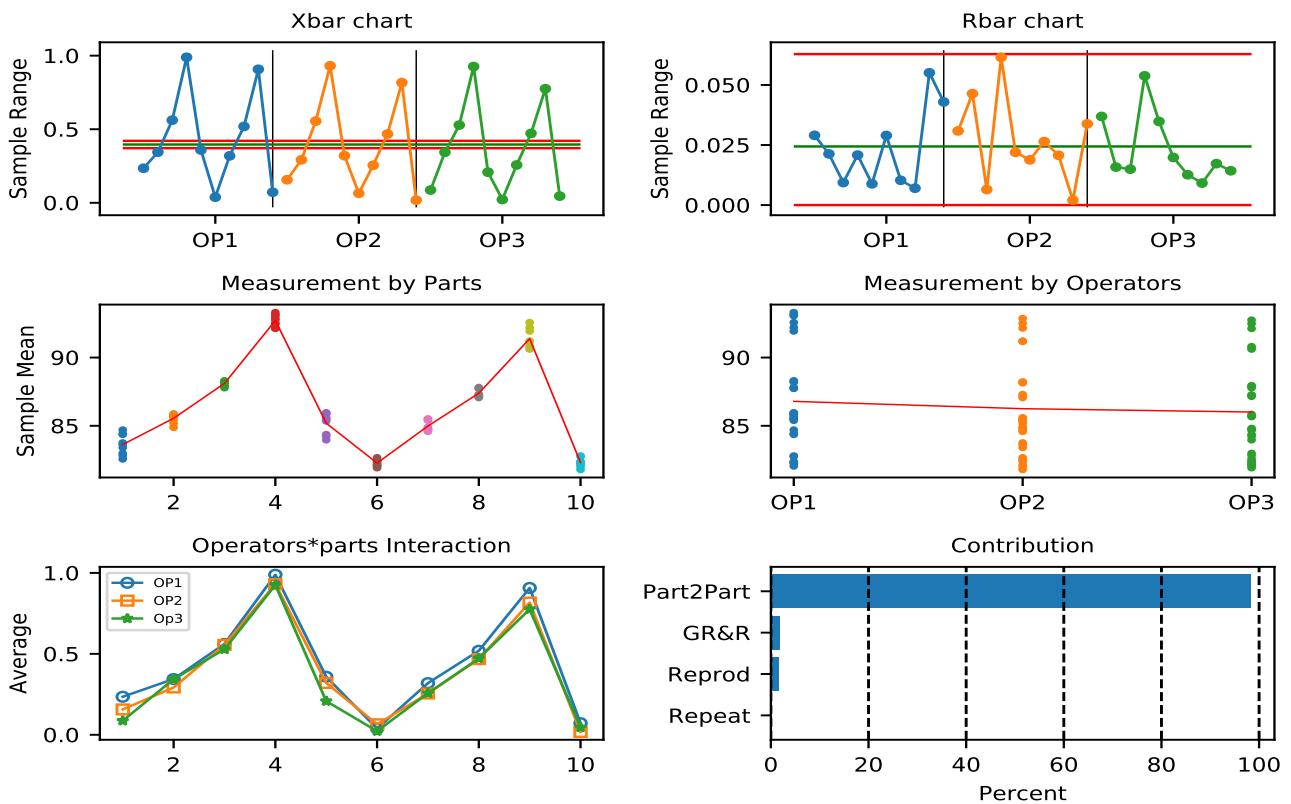
2.54 OC_shift_y



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	6.5	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.11816000000000002	
Appraiser Variation(AV, Reproducibility)	0.10237163448273448	
GRR	0.1563385337869925	
Part Variation(PV)	4.718999999999999	
Total Variation(TV)	4.721589005530517	
Precision/Tolerance Ratio	14.431	

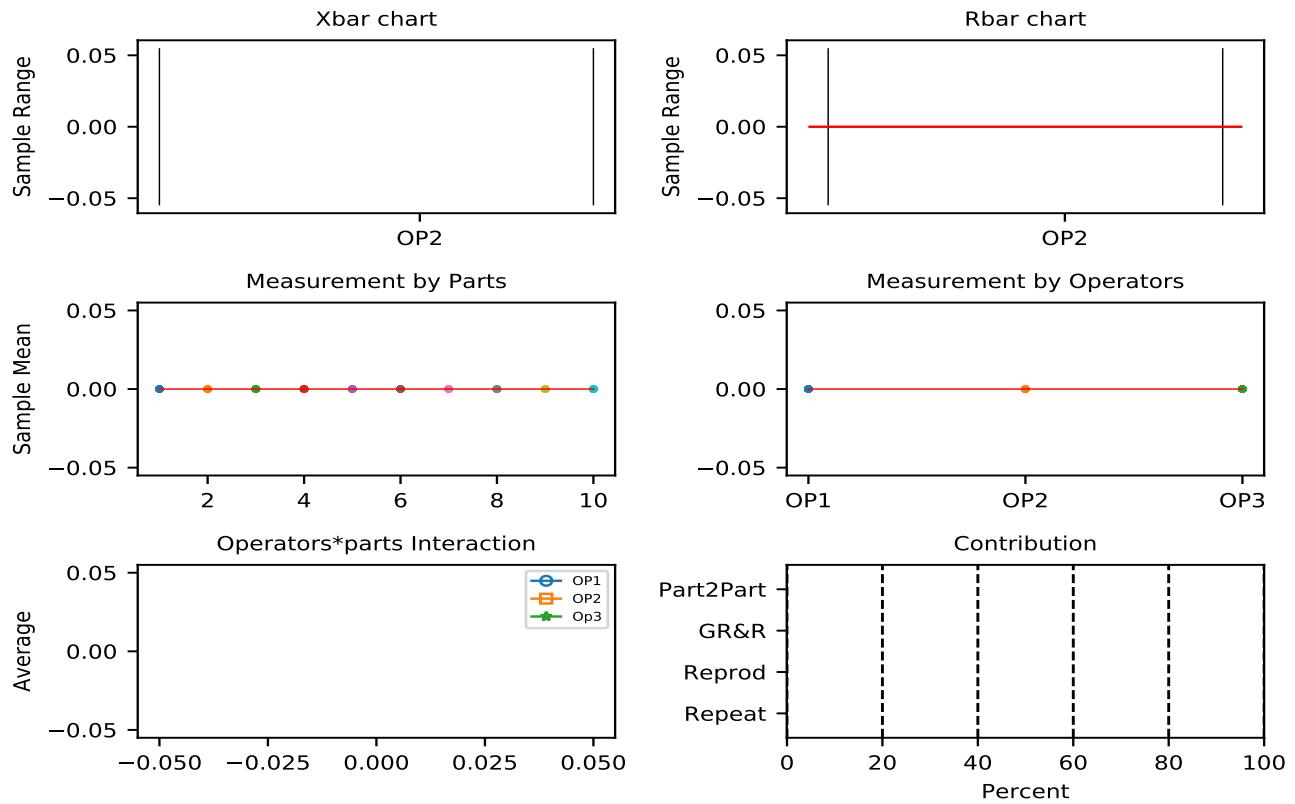
2.55 roiTL_mean



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	6.5	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.1660187386666661	
Appraiser Variation(AV, Reproducibility)	0.40784700654997236	
GRR	0.4403423694584067	
Part Variation(PV)	3.284472937777771	
Total Variation(TV)	3.3138593635419693	
Precision/Tolerance Ratio	40.647	

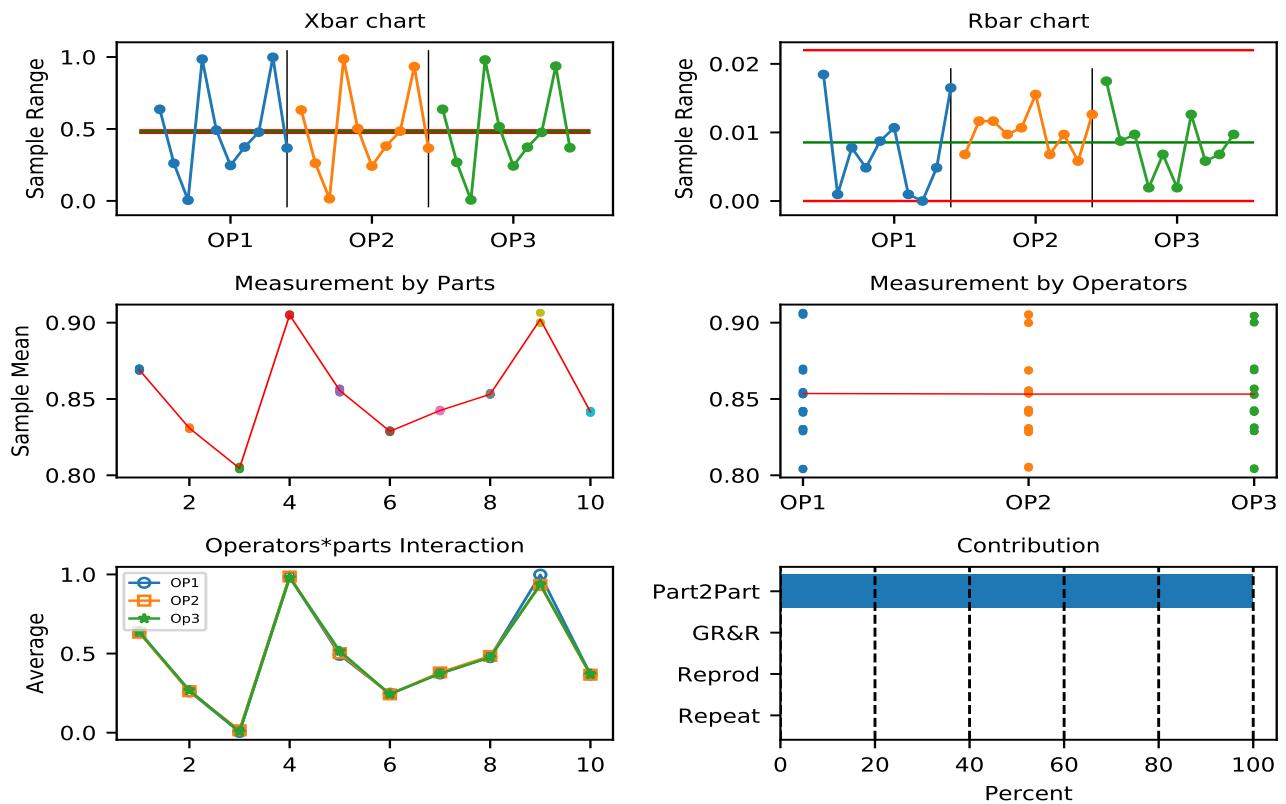
2.56 blemish_blackspot



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	300.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.0	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.0	
Part Variation(PV)	0.0	
Total Variation(TV)	0.0	
Precision/Tolerance Ratio	0.0	

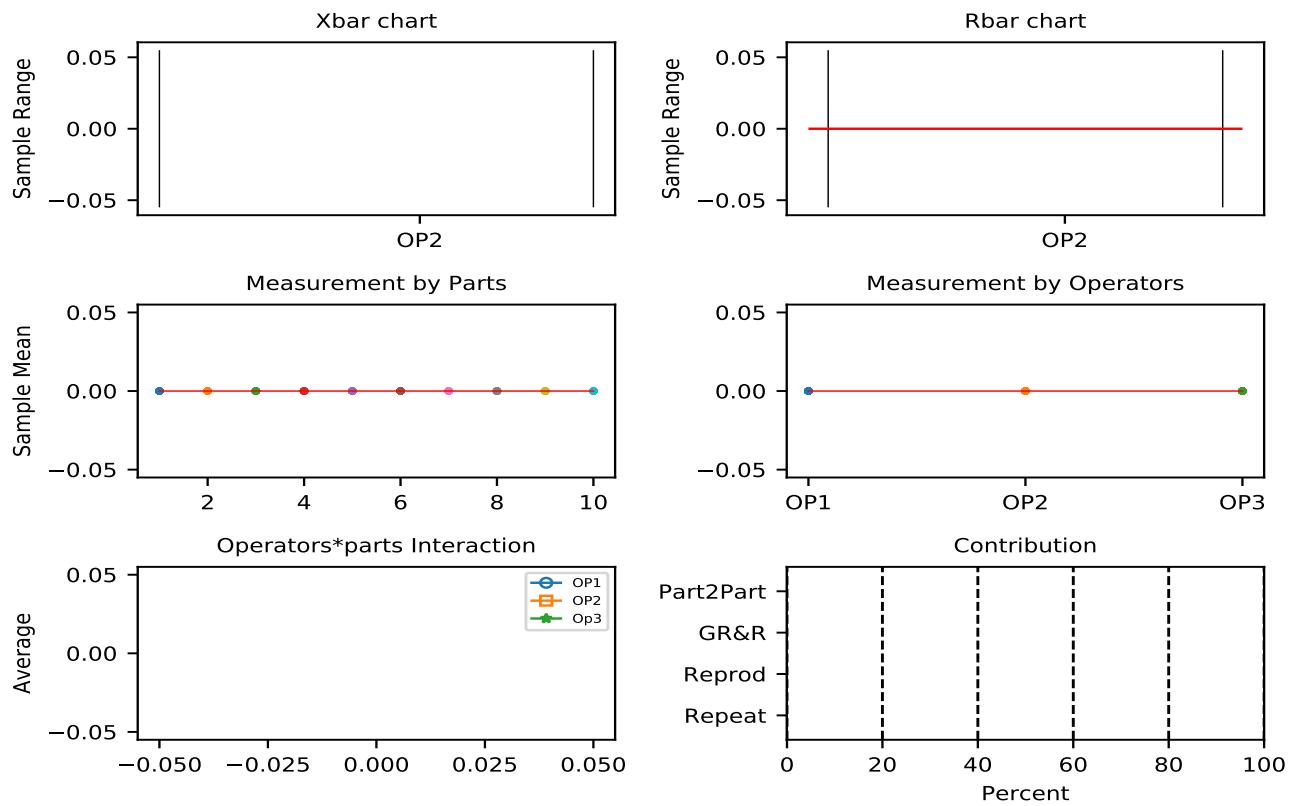
2.57 RI_balance



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	300.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.0005199039999999975	
Appraiser Variation(AV, Reproducibility)	0.00018254904601213372	
GRR	0.000551021164217798	
Part Variation(PV)	0.03158933555555555556	
Total Variation(TV)	0.0315941409942556	
Precision/Tolerance Ratio	0.001	

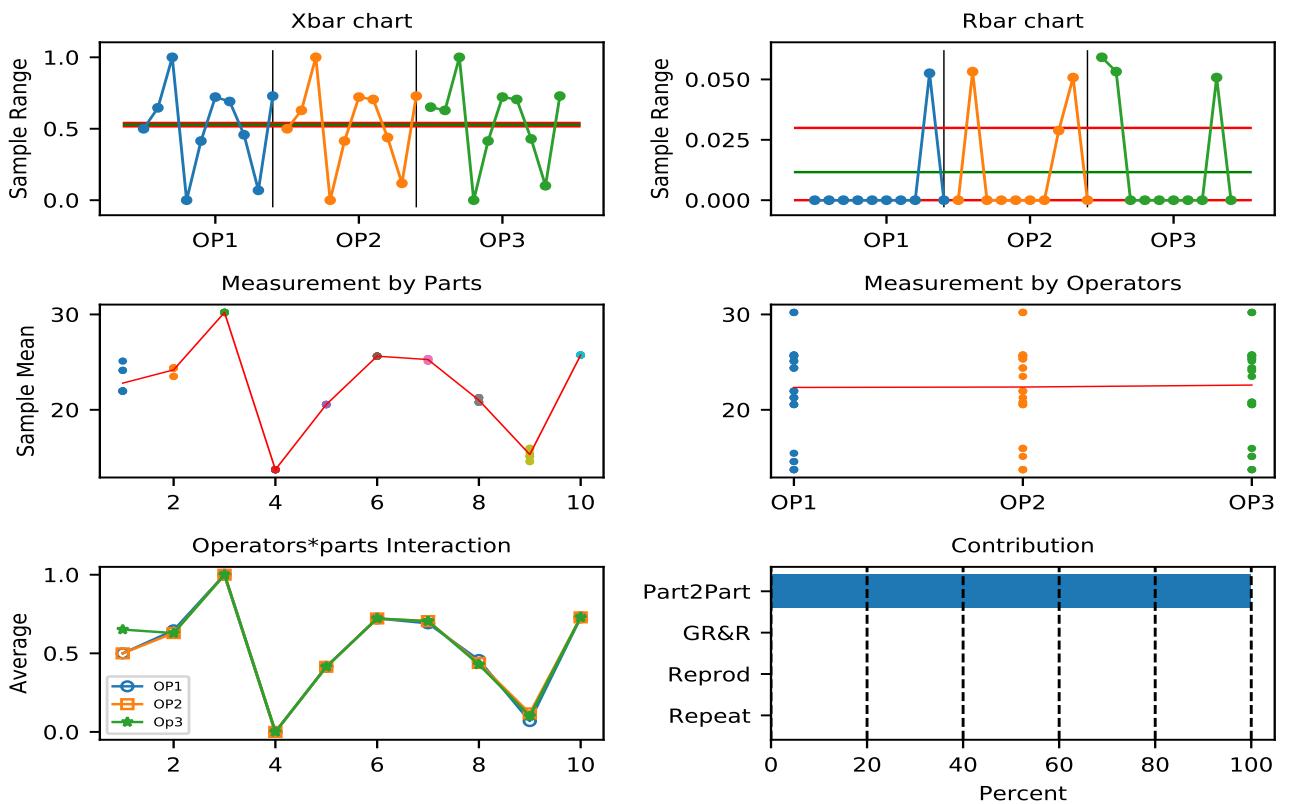
2.58 blemish_RU



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	300.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.0	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.0	
Part Variation(PV)	0.0	
Total Variation(TV)	0.0	
Precision/Tolerance Ratio	0.0	

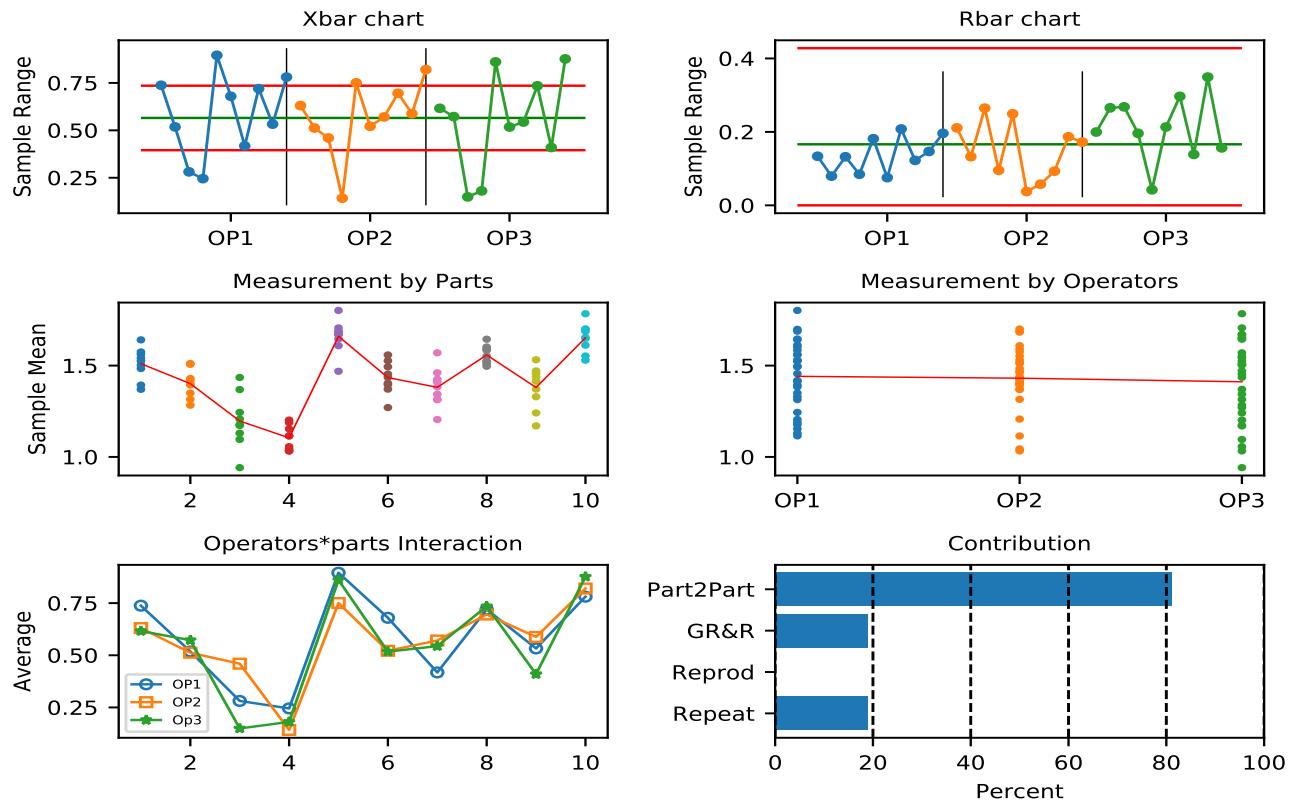
2.59 OC_shift_r



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	300.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.11312244533333331	
Appraiser Variation(AV, Reproducibility)	0.1287718162435815	
GRR	0.17140264962031276	
Part Variation(PV)	5.184010260000002	
Total Variation(TV)	5.186843090366446	
Precision/Tolerance Ratio	0.343	

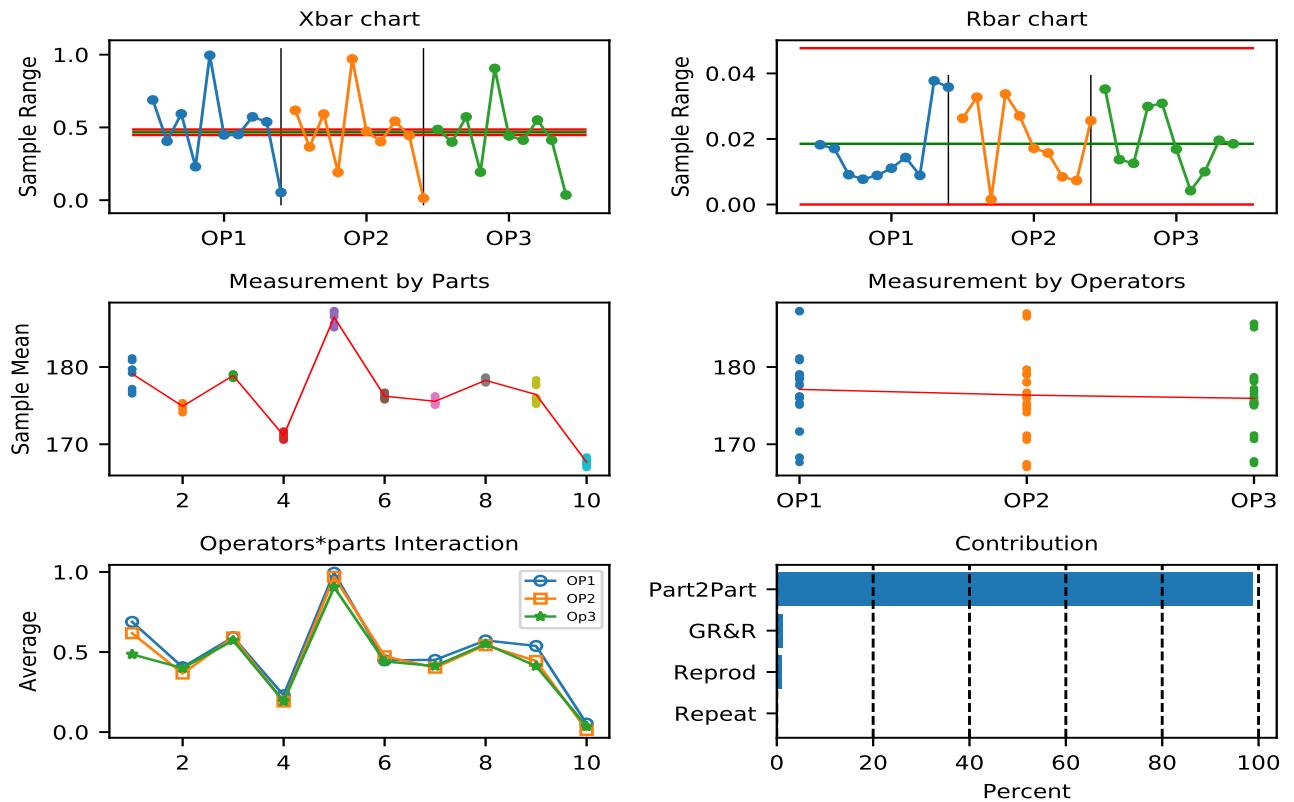
2.60 defect_row



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	300.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.084508032	
Appraiser Variation(AV, Reproducibility)	0.0025646834617550416	
GRR	0.08454694006155411	
Part Variation(PV)	0.17491410444444445	
Total Variation(TV)	0.19427590948796009	
Precision/Tolerance Ratio	0.169	

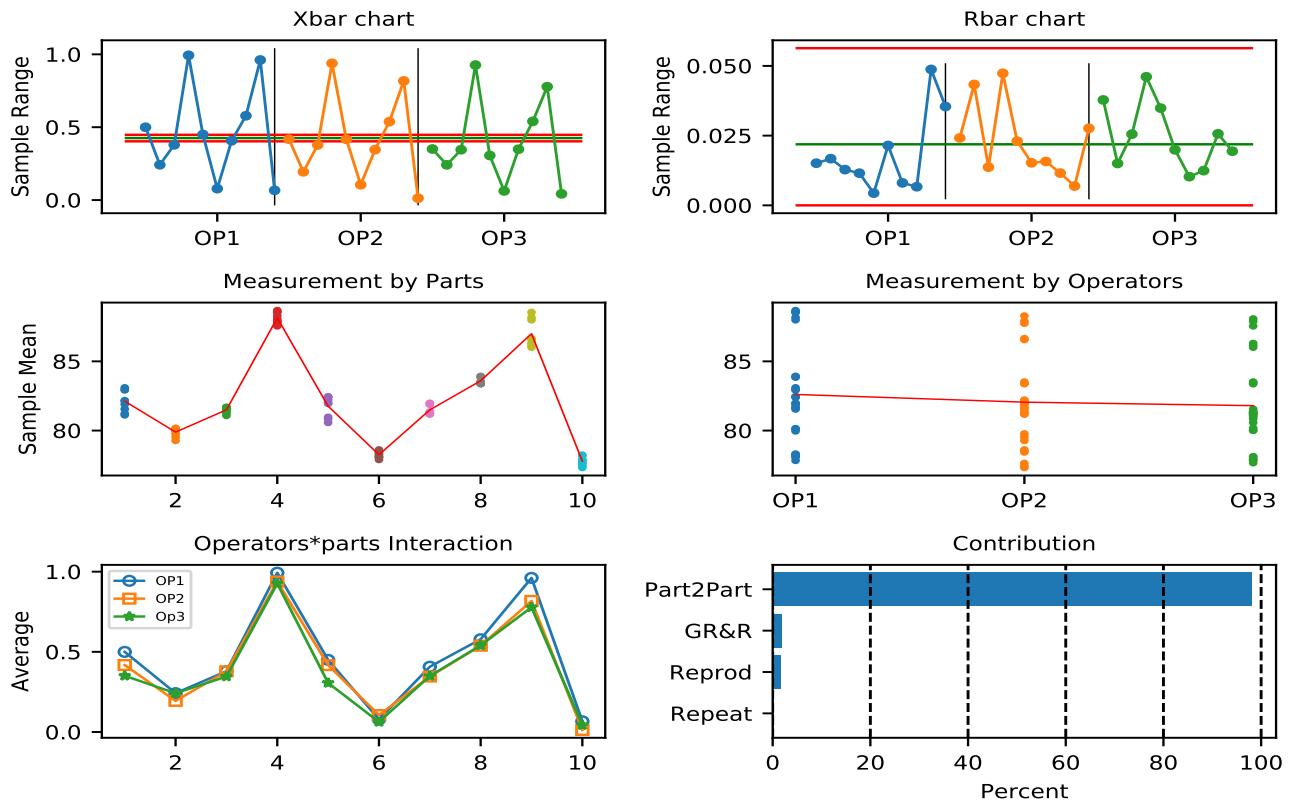
2.61 roiCenter_mean



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	300.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.22277689466666487	
Appraiser Variation(AV, Reproducibility)	0.6037081652391981	
GRR	0.6435006554571652	
Part Variation(PV)	5.910054626666676	
Total Variation(TV)	5.944984338394676	
Precision/Tolerance Ratio	1.287	

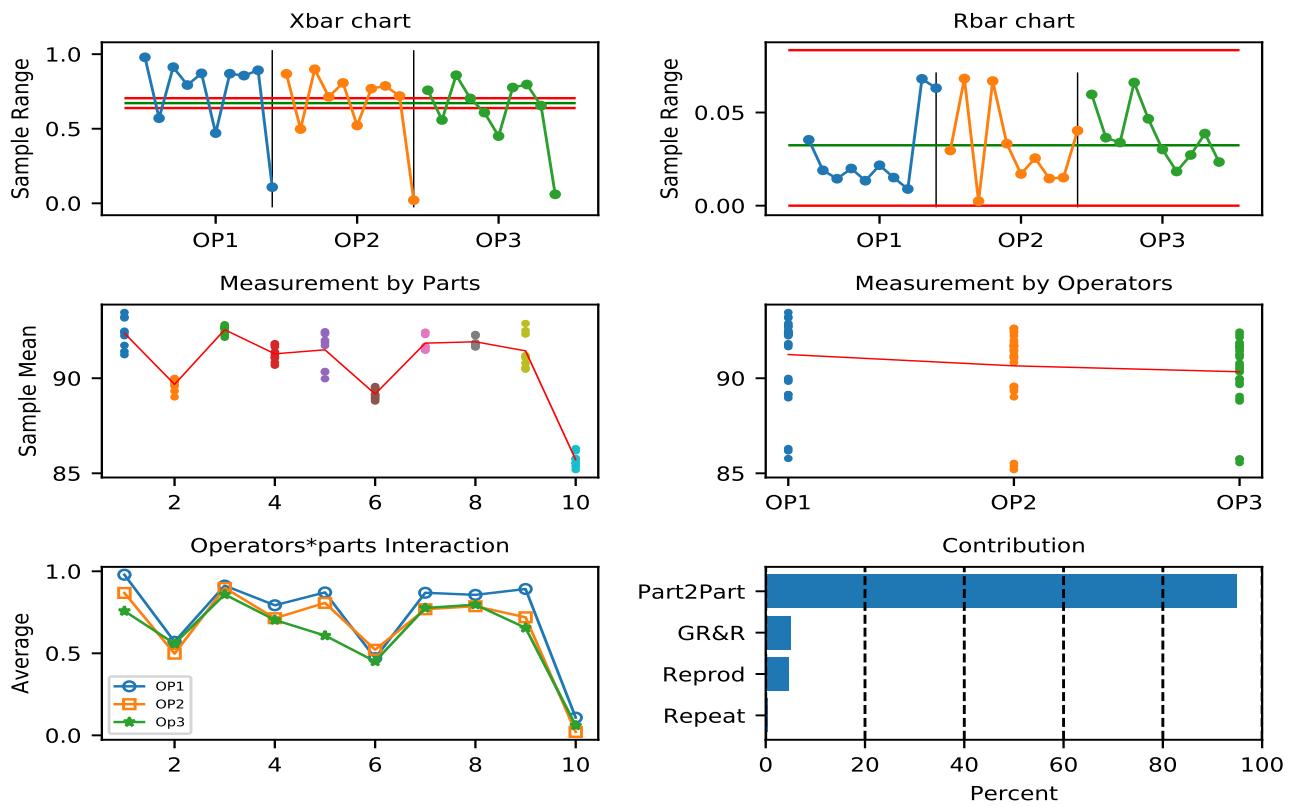
2.62 roiTR_mean



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.2	
Equipment Variation(EV, Repeatability)	0.1468394013333336	
Appraiser Variation(AV, Reproducibility)	0.42288123478408557	
GRR	0.4476498056700625	
Part Variation(PV)	3.257588619999998	
Total Variation(TV)	3.288202239168074	
Precision/Tolerance Ratio	335.737	

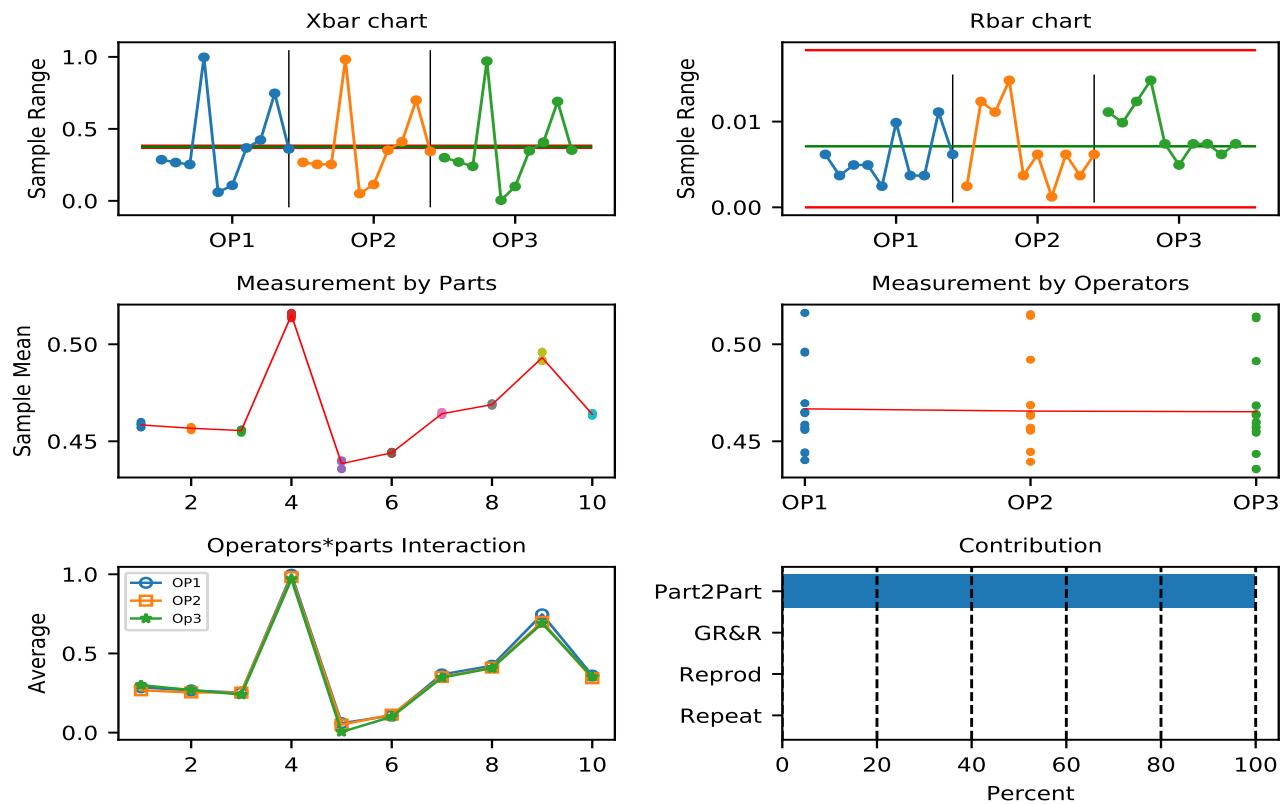
2.63 roiBR_mean



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.2	
Equipment Variation(EV, Repeatability)	0.1583245533333334	
Appraiser Variation(AV, Reproducibility)	0.47361924637624375	
GRR	0.4993814721494988	
Part Variation(PV)	2.1514165688888913	
Total Variation(TV)	2.2086138430282127	
Precision/Tolerance Ratio	374.536	

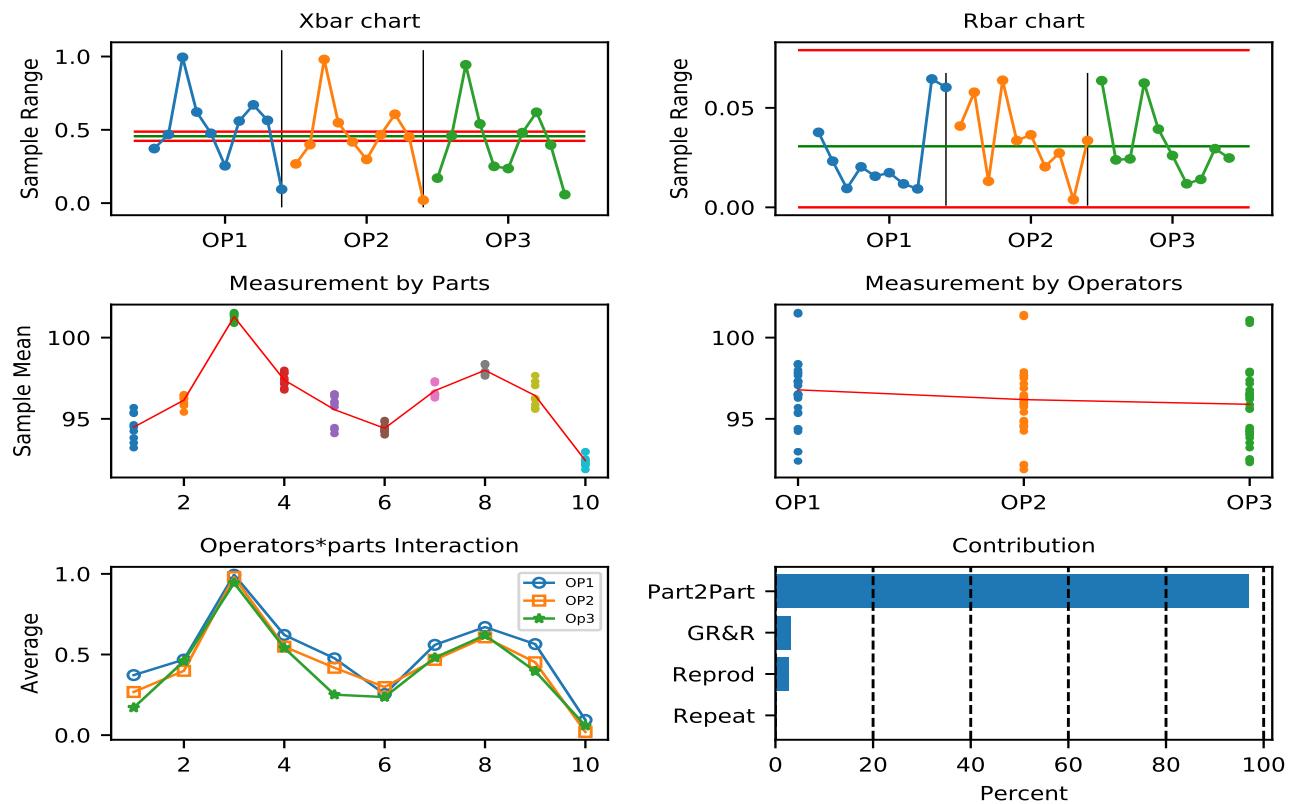
2.64 RI



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	300.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.0003406946666666685	
Appraiser Variation(AV, Reproducibility)	0.0007821806231960497	
GRR	0.0008531584748441951	
Part Variation(PV)	0.02408088222222221	
Total Variation(TV)	0.02409599070351199	
Precision/Tolerance Ratio	0.002	

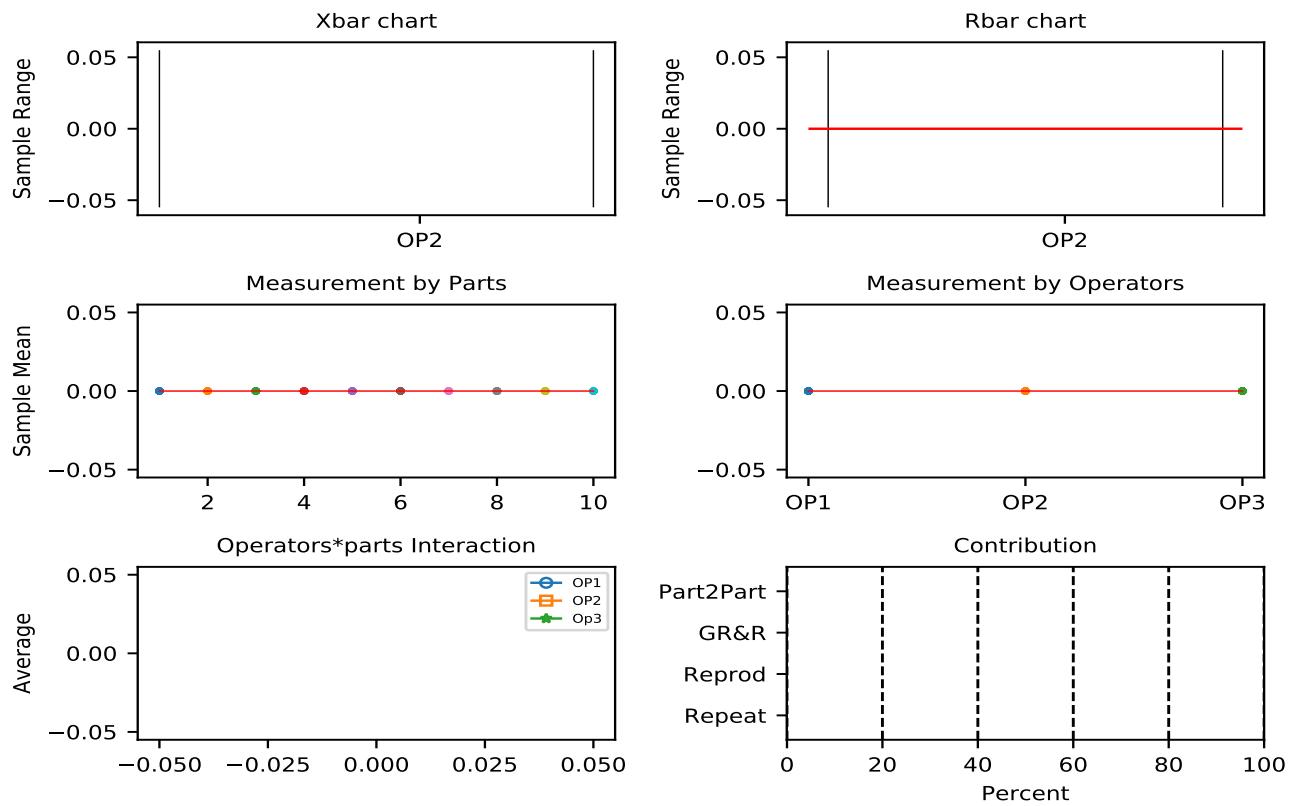
2.65 roiBL_mean



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	300.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.175347470666666653	
Appraiser Variation(AV, Reproducibility)	0.4648380059147577	
GRR	0.4968109370897604	
Part Variation(PV)	2.785601231111108	
Total Variation(TV)	2.8295574434847093	
Precision/Tolerance Ratio	0.994	

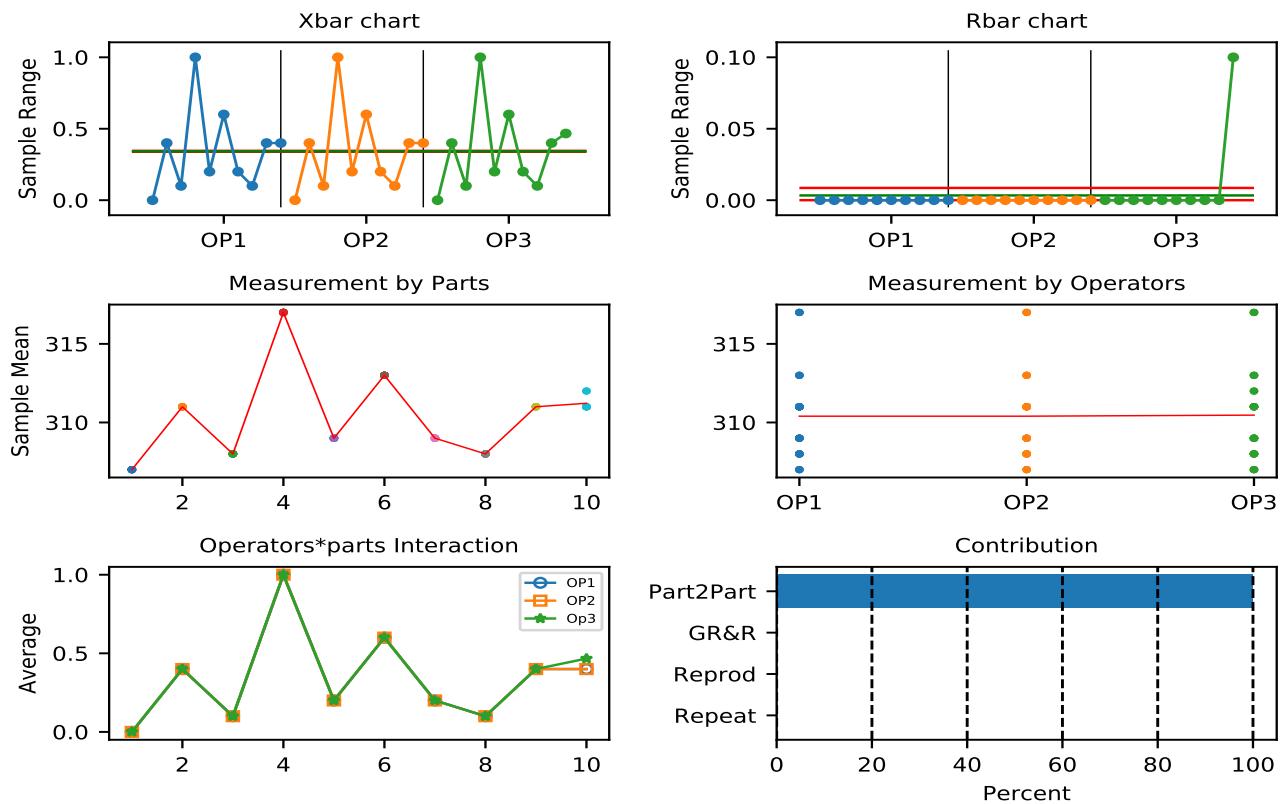
2.66 defect_cluster



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	5.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.0	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.0	
Part Variation(PV)	0.0	
Total Variation(TV)	0.0	
Precision/Tolerance Ratio	0.0	

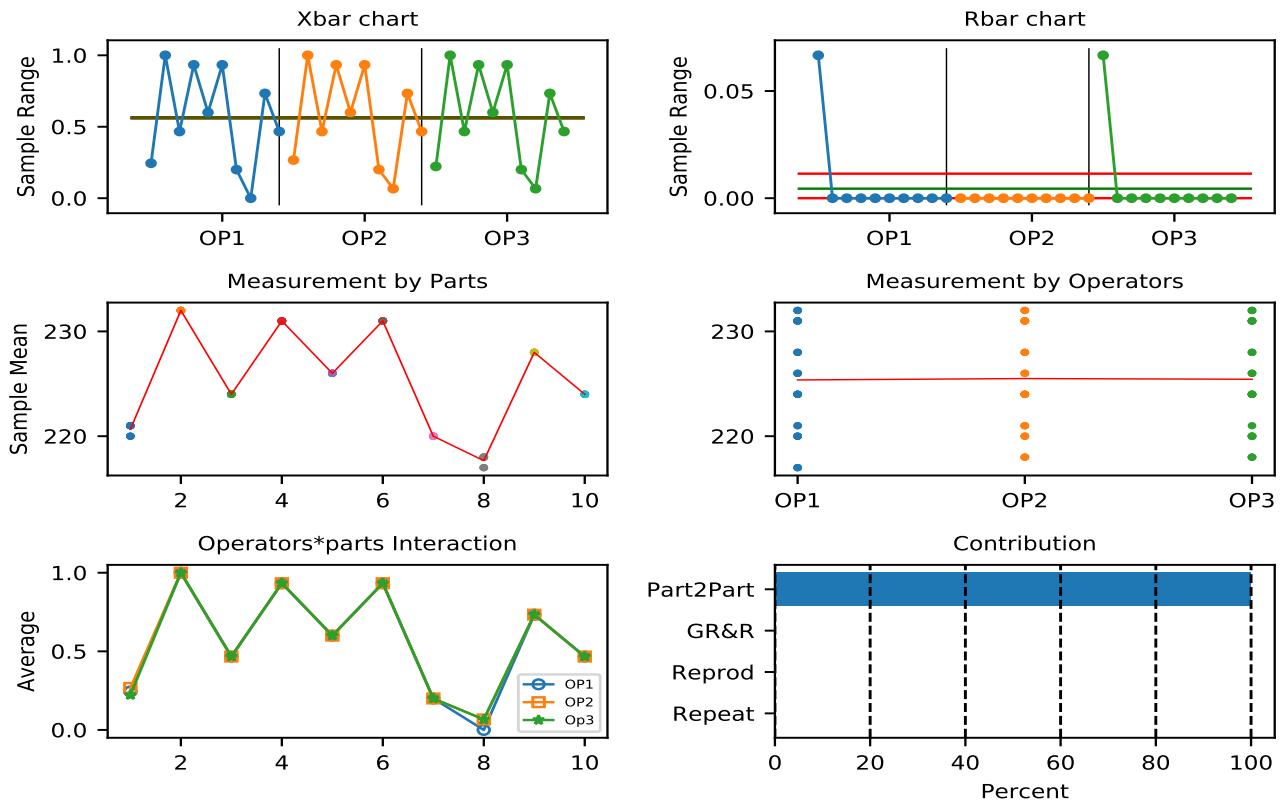
2.67 OC_center_x



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	inf	
lower limit(LSL)	-inf	
Equipment Variation(EV, Repeatability)	0.01969333333333334	
Appraiser Variation(AV, Reproducibility)	0.03468748763629878	
GRR	0.039887957785479045	
Part Variation(PV)	3.146	
Total Variation(TV)	3.146252858429579	
Precision/Tolerance Ratio	0.0	

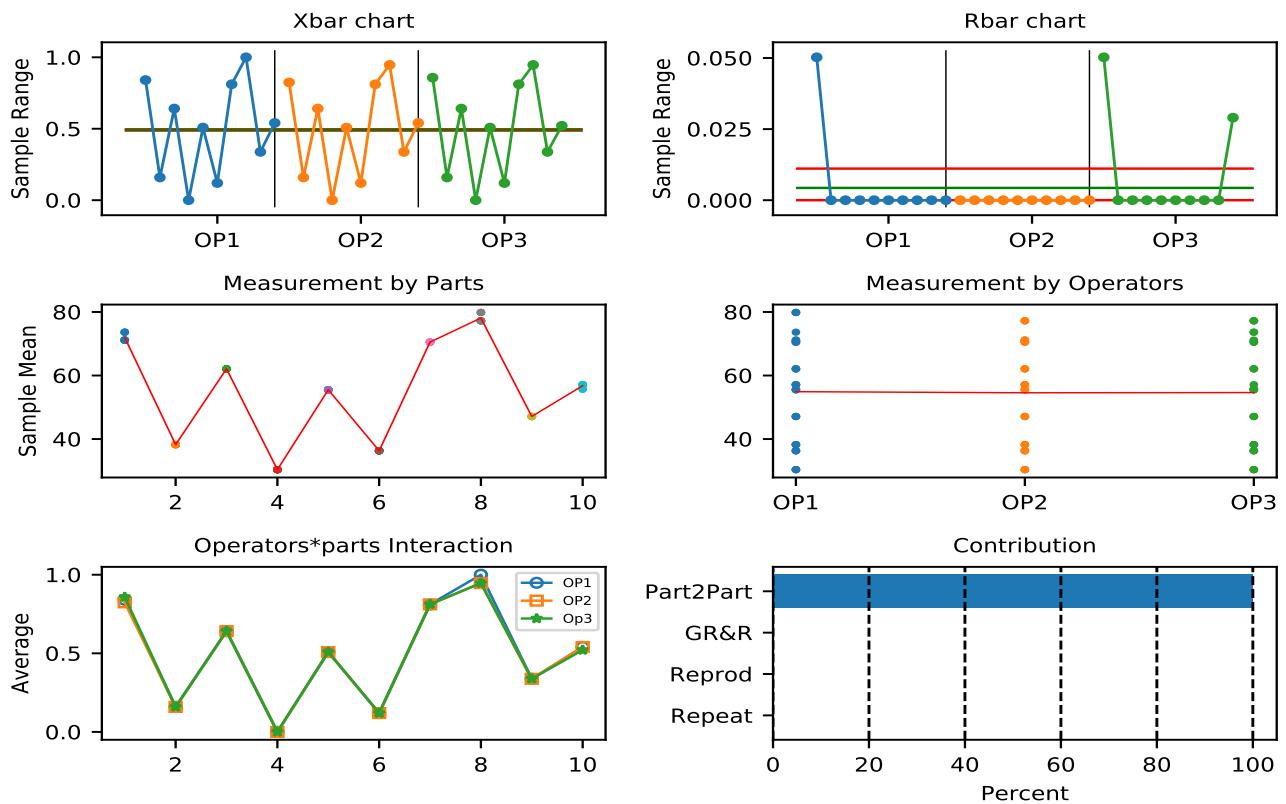
2.68 OC_center_y



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.5	
Equipment Variation(EV, Repeatability)	0.039386666666666667	
Appraiser Variation(AV, Reproducibility)	0.0693749752726125	
GRR	0.07977591557097108	
Part Variation(PV)	4.509266666666667	
Total Variation(TV)	4.509972291247068	
Precision/Tolerance Ratio	95.731	

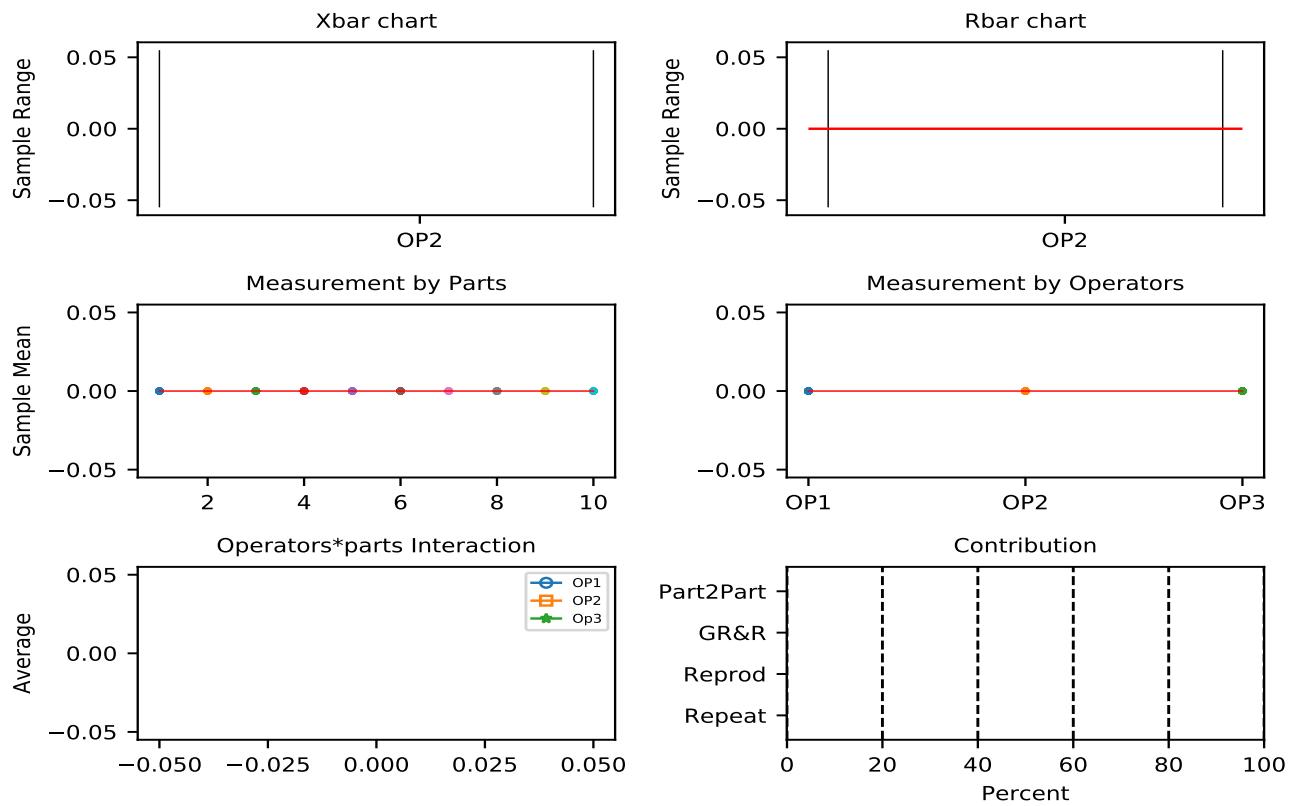
2.69 OC_shift_r_um



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.5	
Equipment Variation(EV, Repeatability)	0.1262145733333344	
Appraiser Variation(AV, Reproducibility)	0.17976228262803992	
GRR	0.2196465268957347	
Part Variation(PV)	15.013687260000003	
Total Variation(TV)	15.015293861189123	
Precision/Tolerance Ratio	263.576	

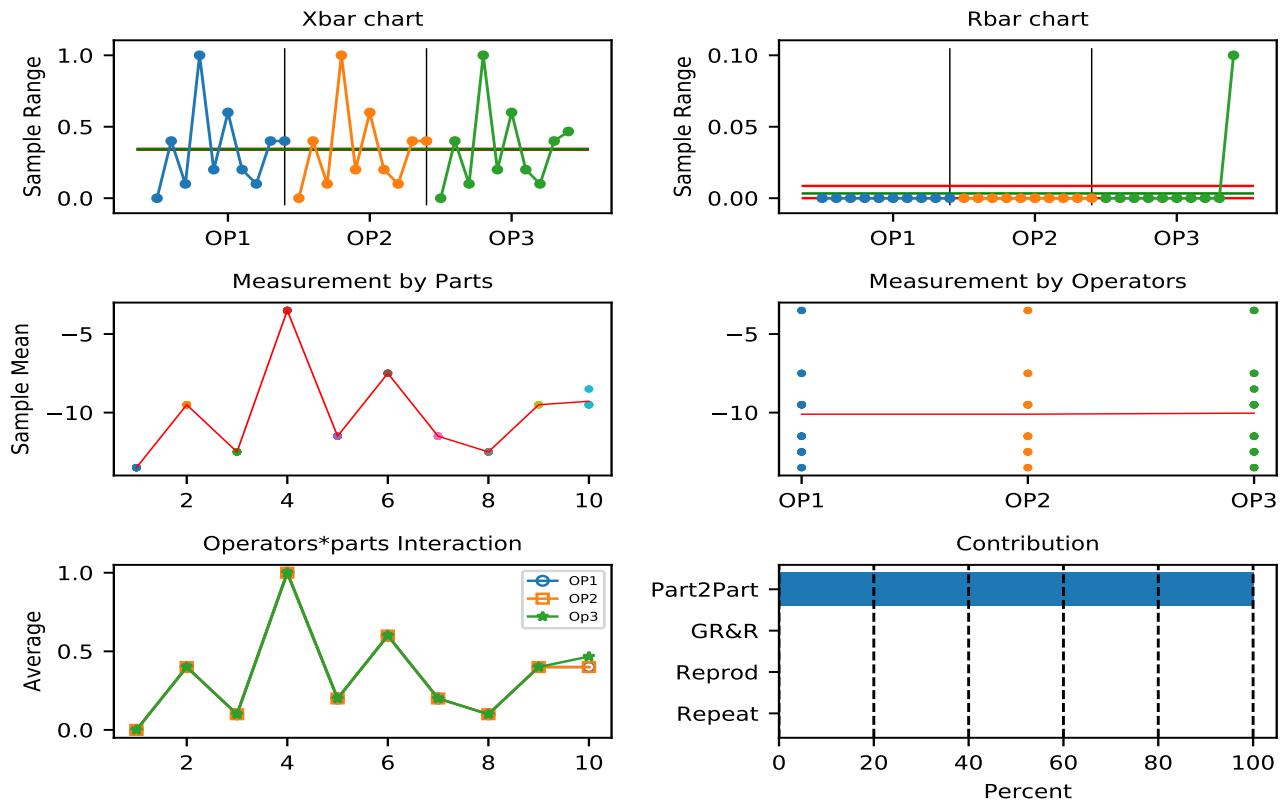
2.70 defect_singlet



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	0.07	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.0	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.0	
Part Variation(PV)	0.0	
Total Variation(TV)	0.0	
Precision/Tolerance Ratio	0.0	

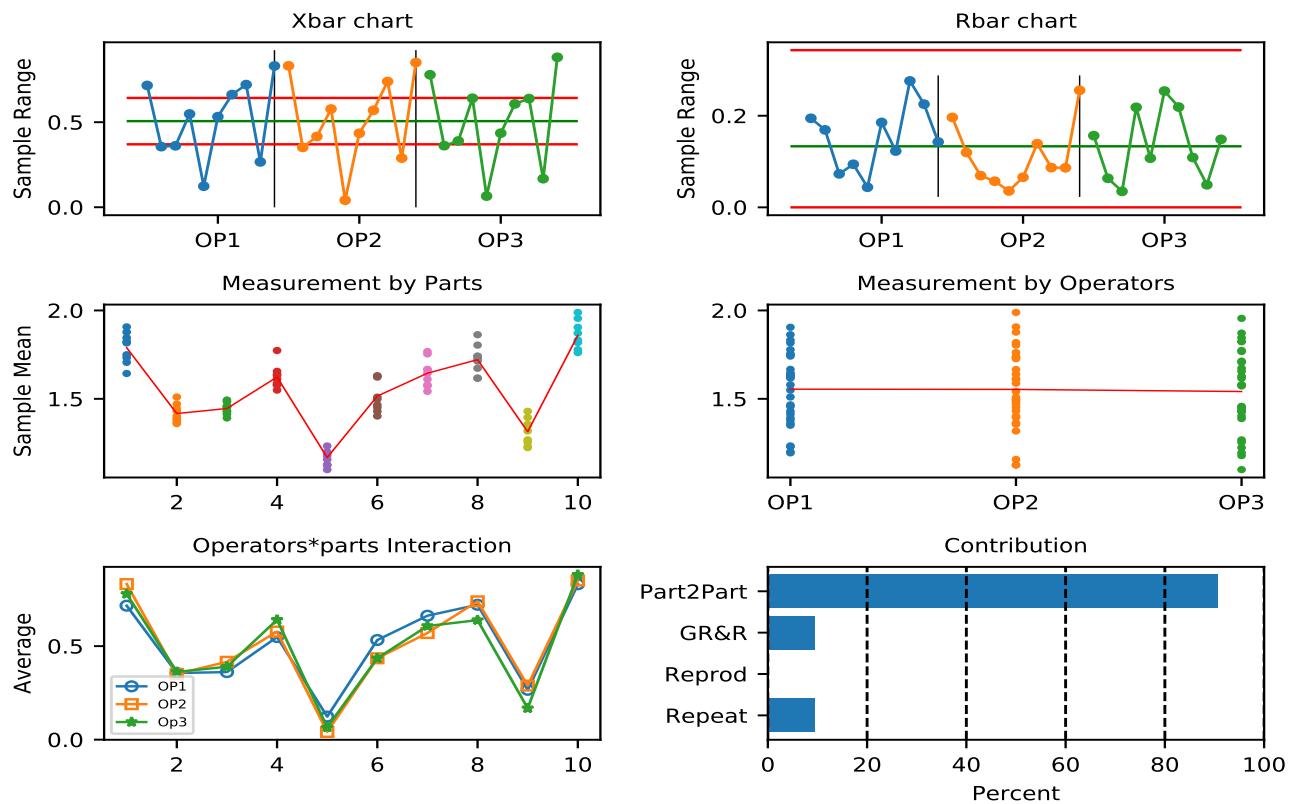
2.71 OC_shift_x



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	0.07	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.019693333333333334	
Appraiser Variation(AV, Reproducibility)	0.03468748763630064	
GRR	0.03988795778548067	
Part Variation(PV)	3.146	
Total Variation(TV)	3.146252858429579	
Precision/Tolerance Ratio	341.897	

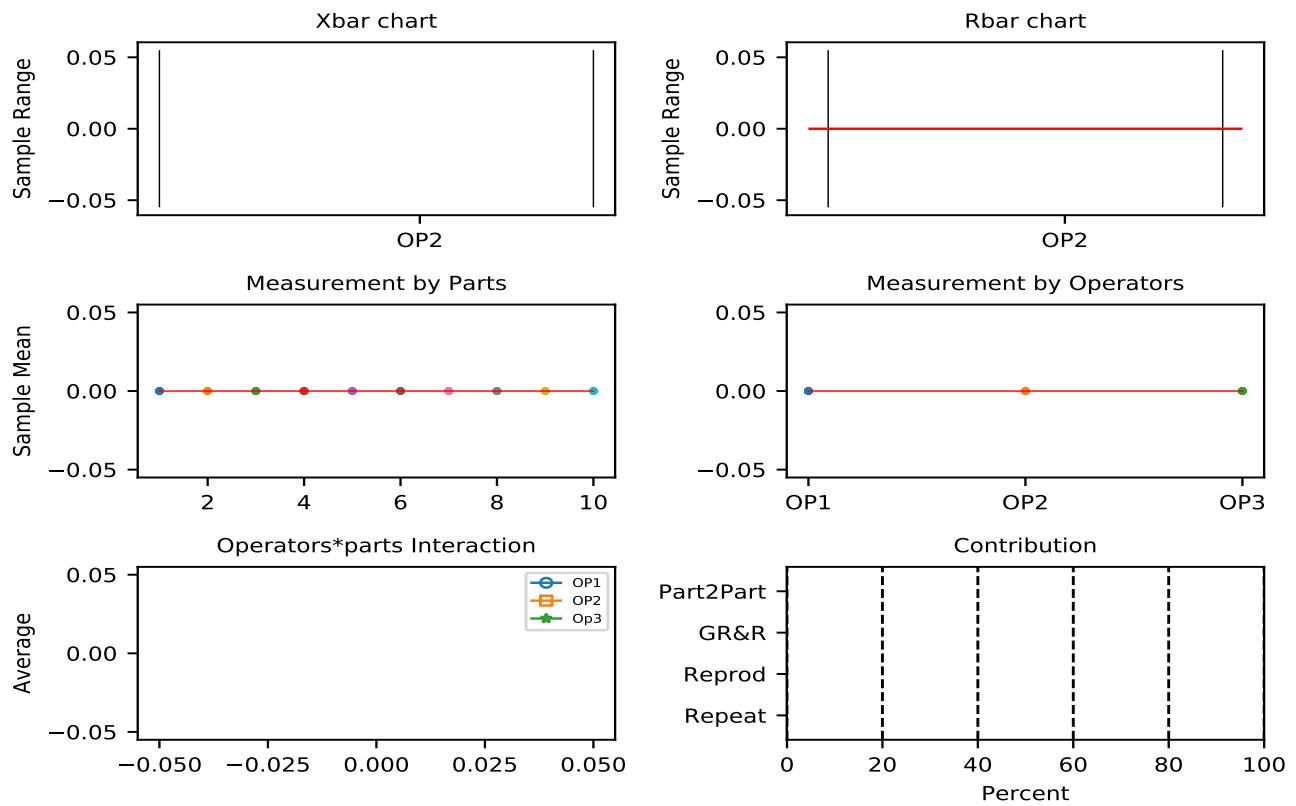
2.72 defect_col



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	10000.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.07001767733333335	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.07001767733333335	
Part Variation(PV)	0.2175319177777776	
Total Variation(TV)	0.22852266931583087	
Precision/Tolerance Ratio	0.004	

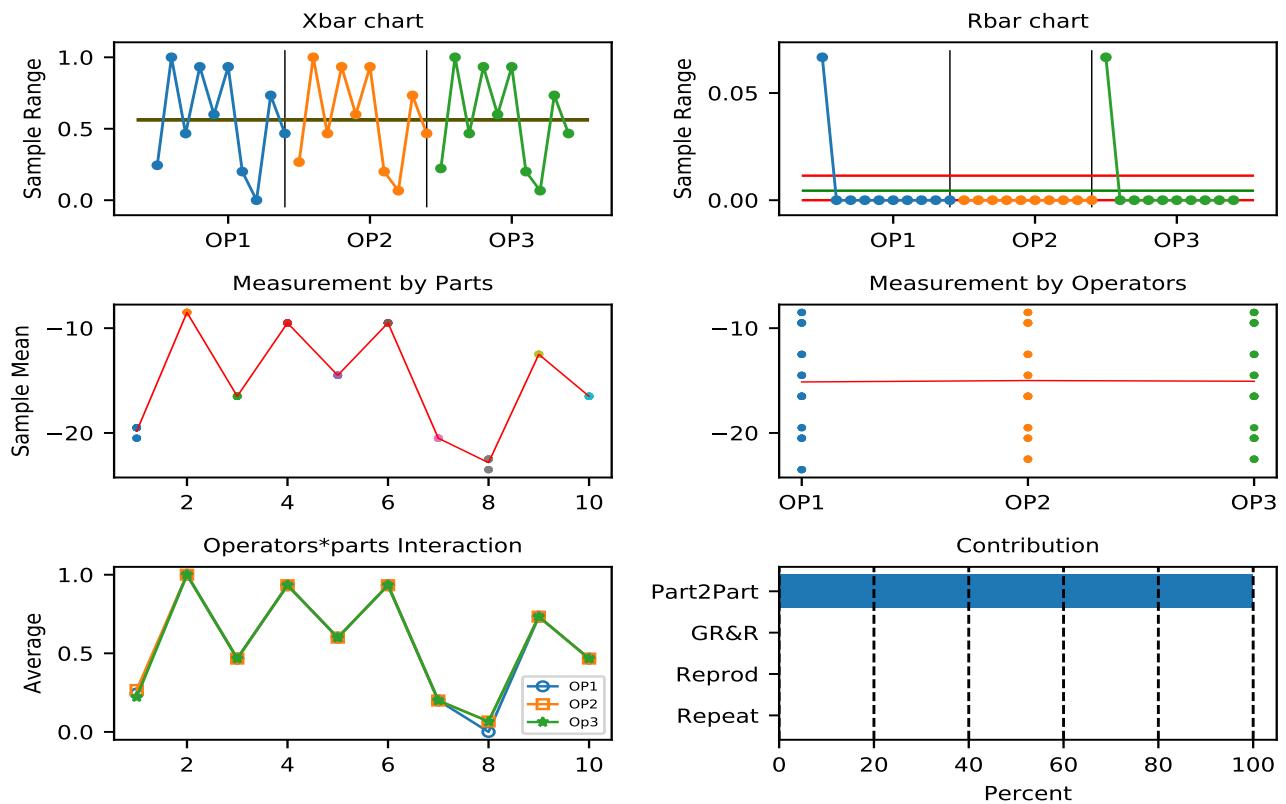
2.73 defect_couplet



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	10000.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.0	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.0	
Part Variation(PV)	0.0	
Total Variation(TV)	0.0	
Precision/Tolerance Ratio	0.0	

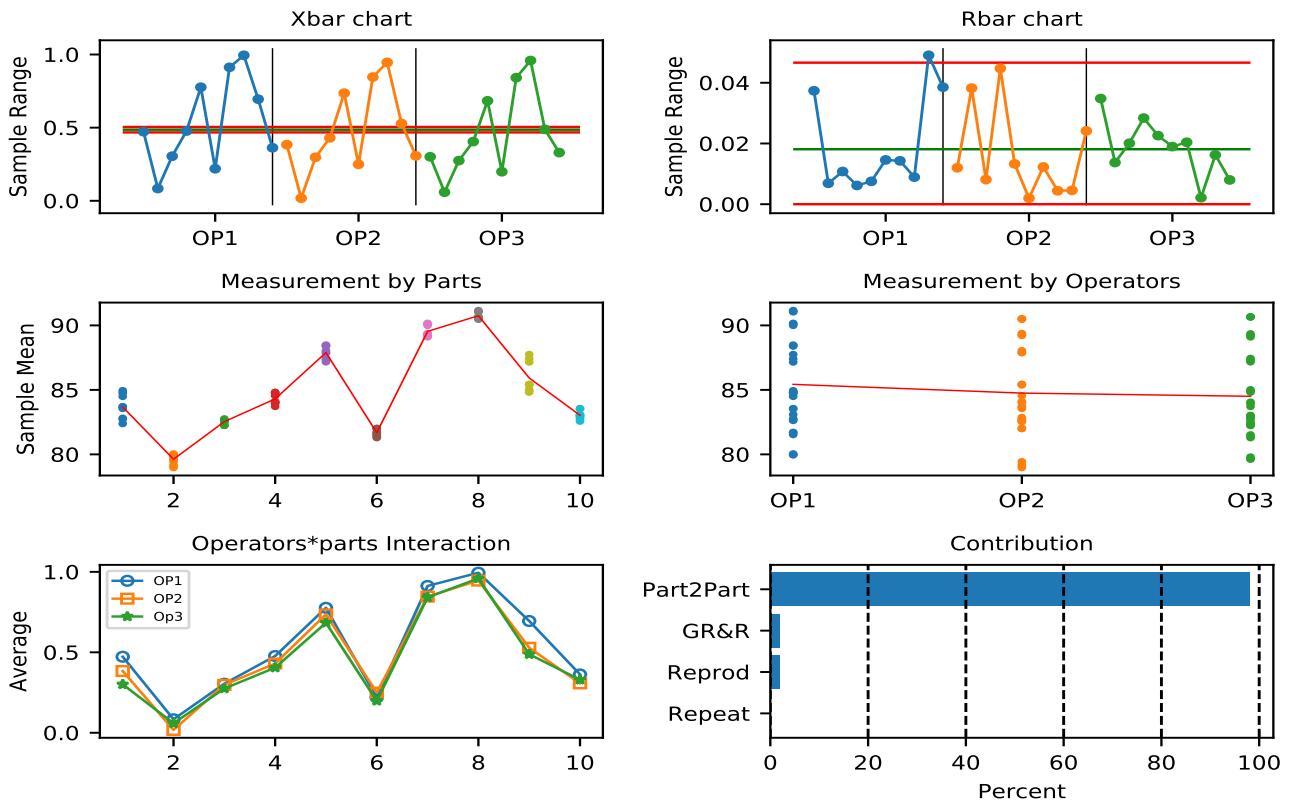
2.74 OC_shift_y



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	6.5	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.039386666666666667	
Appraiser Variation(AV, Reproducibility)	0.06937497527260034	
GRR	0.0797759155709605	
Part Variation(PV)	4.5092666666666666	
Total Variation(TV)	4.509972291247064	
Precision/Tolerance Ratio	7.364	

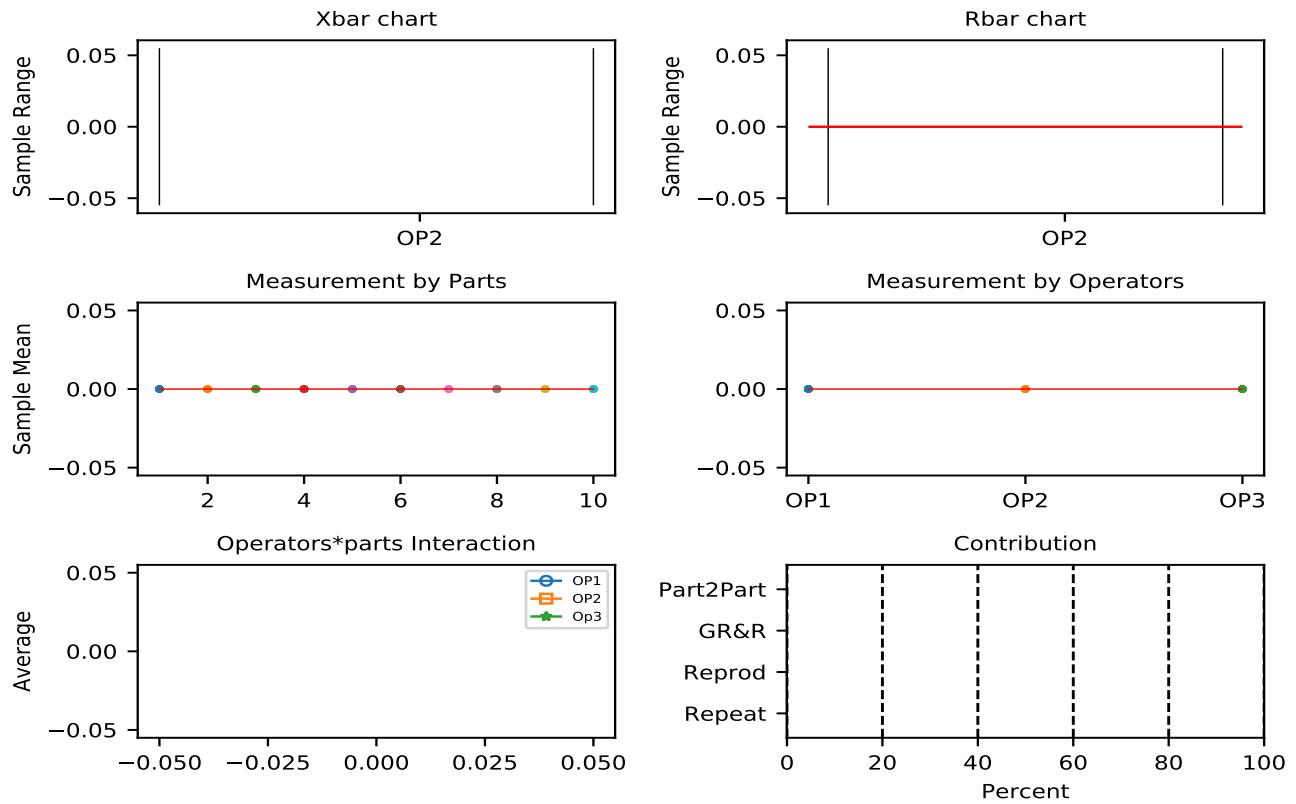
2.75 roiTL_mean



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	6.5	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.1303619893333426	
Appraiser Variation(AV, Reproducibility)	0.48303737452586004	
GRR	0.5003192515302408	
Part Variation(PV)	3.500466811111113	
Total Variation(TV)	3.5360411831796	
Precision/Tolerance Ratio	46.183	

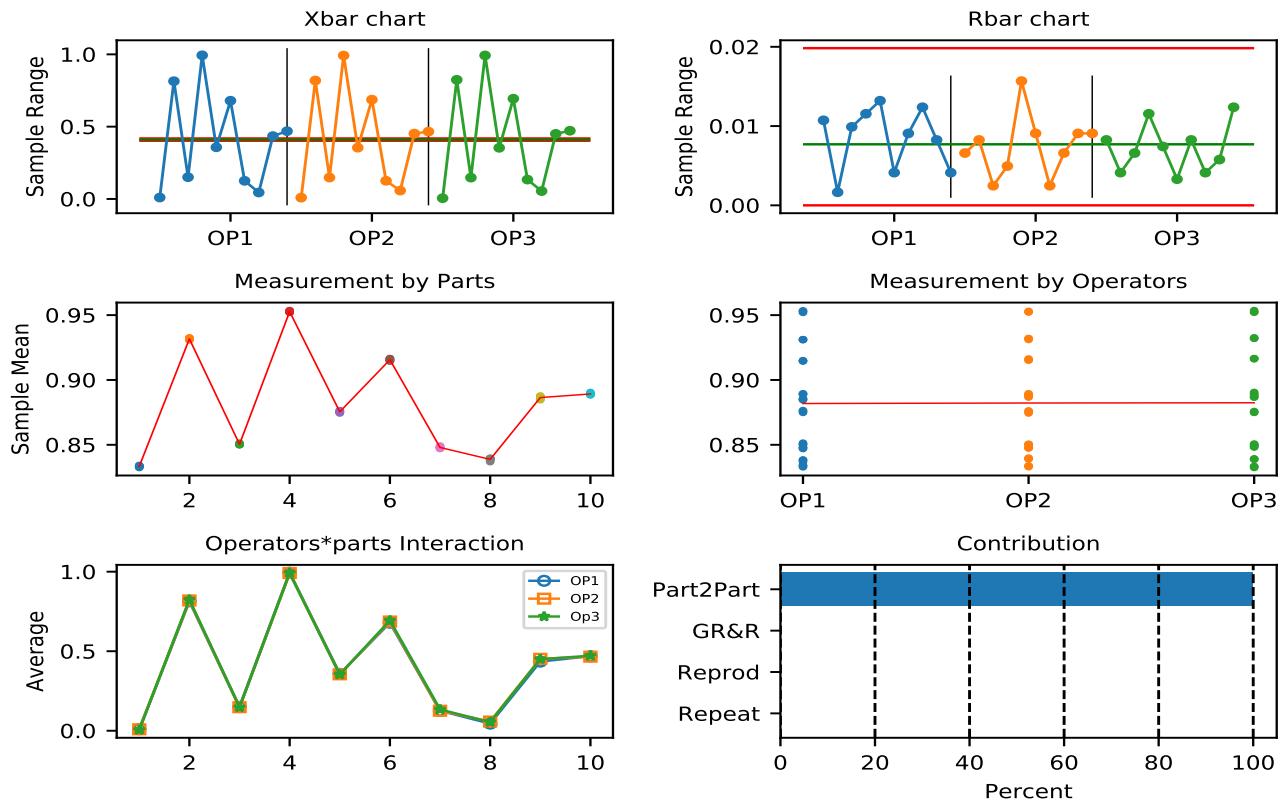
2.76 blemish_blackspot



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	300.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.0	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.0	
Part Variation(PV)	0.0	
Total Variation(TV)	0.0	
Precision/Tolerance Ratio	0.0	

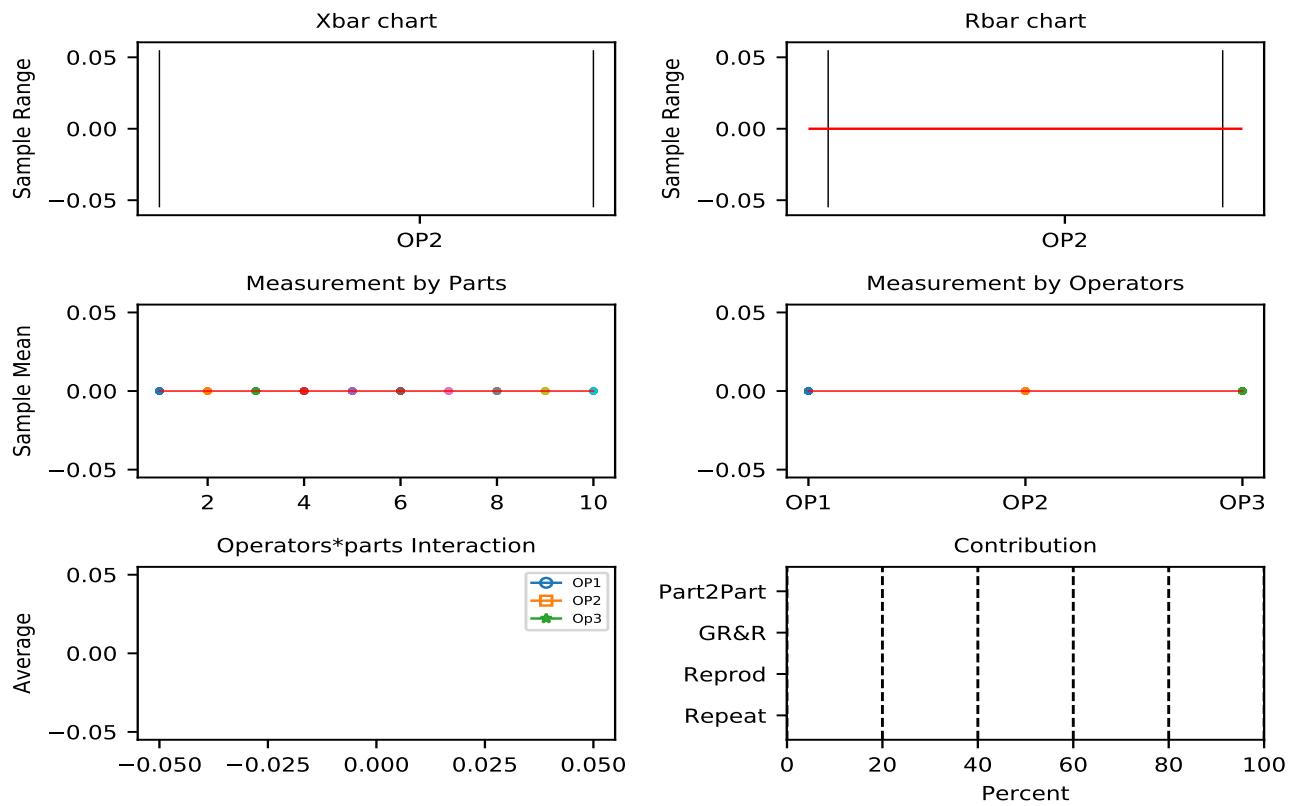
2.77 RI_balance



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	300.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.000551413333333295	
Appraiser Variation(AV, Reproducibility)	0.00028805592269019986	
GRR	0.000622119665960397	
Part Variation(PV)	0.03753877111111111	
Total Variation(TV)	0.03754392586572647	
Precision/Tolerance Ratio	0.001	

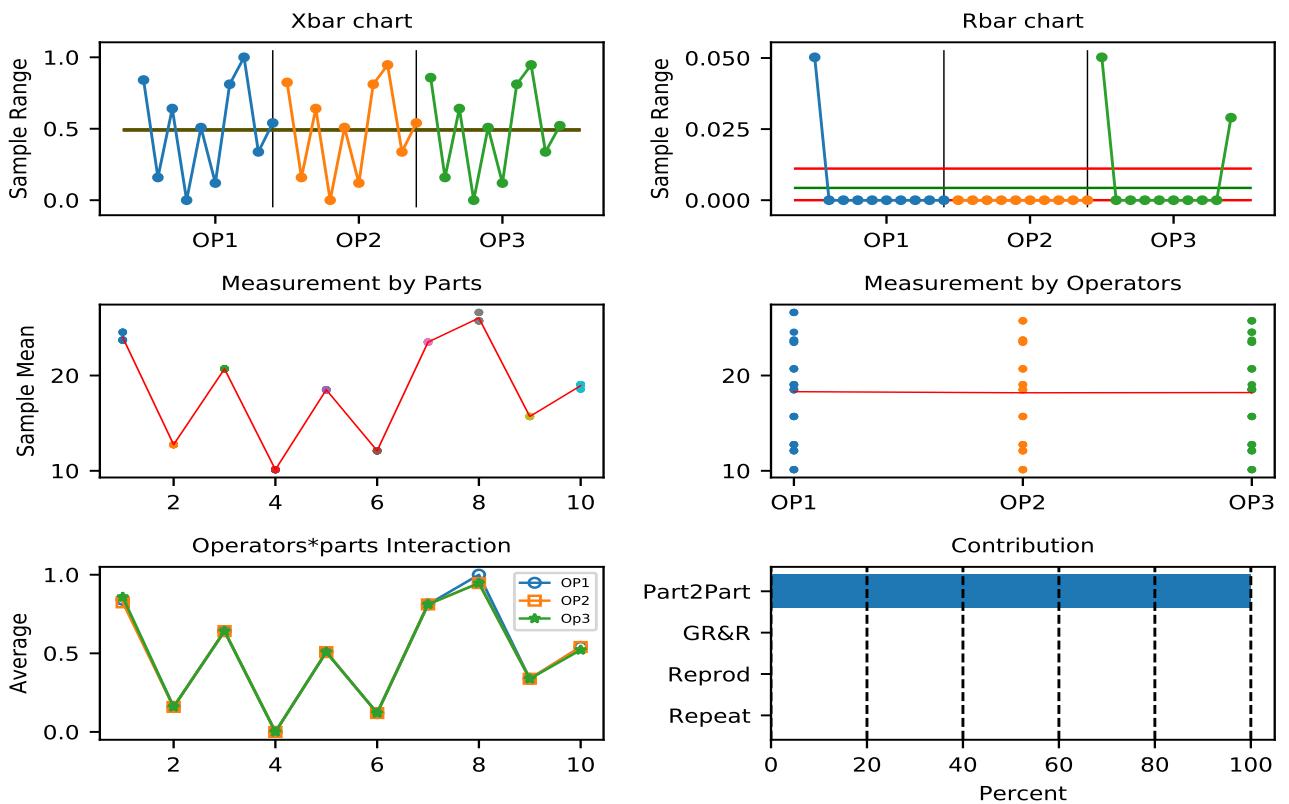
2.78 blemish_RU



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	300.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.0	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.0	
Part Variation(PV)	0.0	
Total Variation(TV)	0.0	
Precision/Tolerance Ratio	0.0	

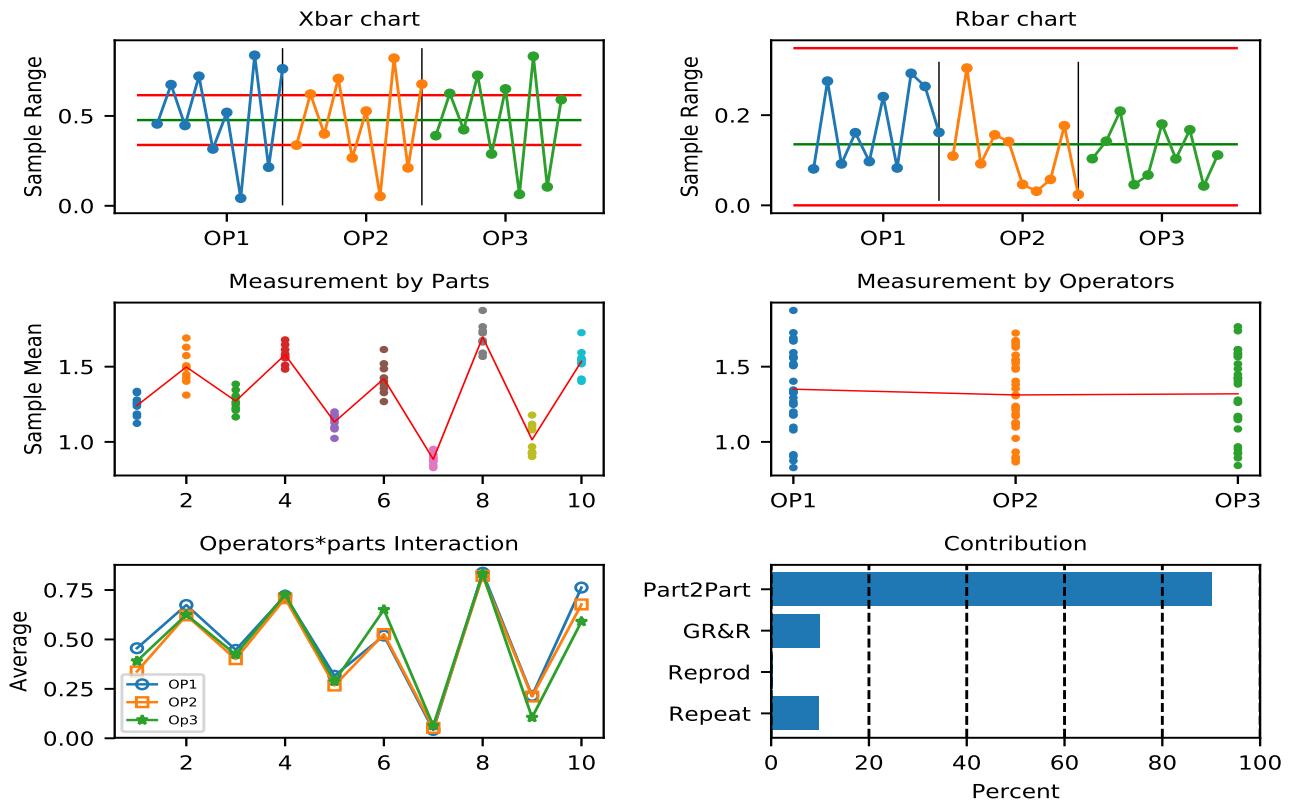
2.79 OC_shift_r



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	300.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.04207086800000004	
Appraiser Variation(AV, Reproducibility)	0.05992077623930197	
GRR	0.07321514433089593	
Part Variation(PV)	5.004583393333334	
Total Variation(TV)	5.005118919485049	
Precision/Tolerance Ratio	0.146	

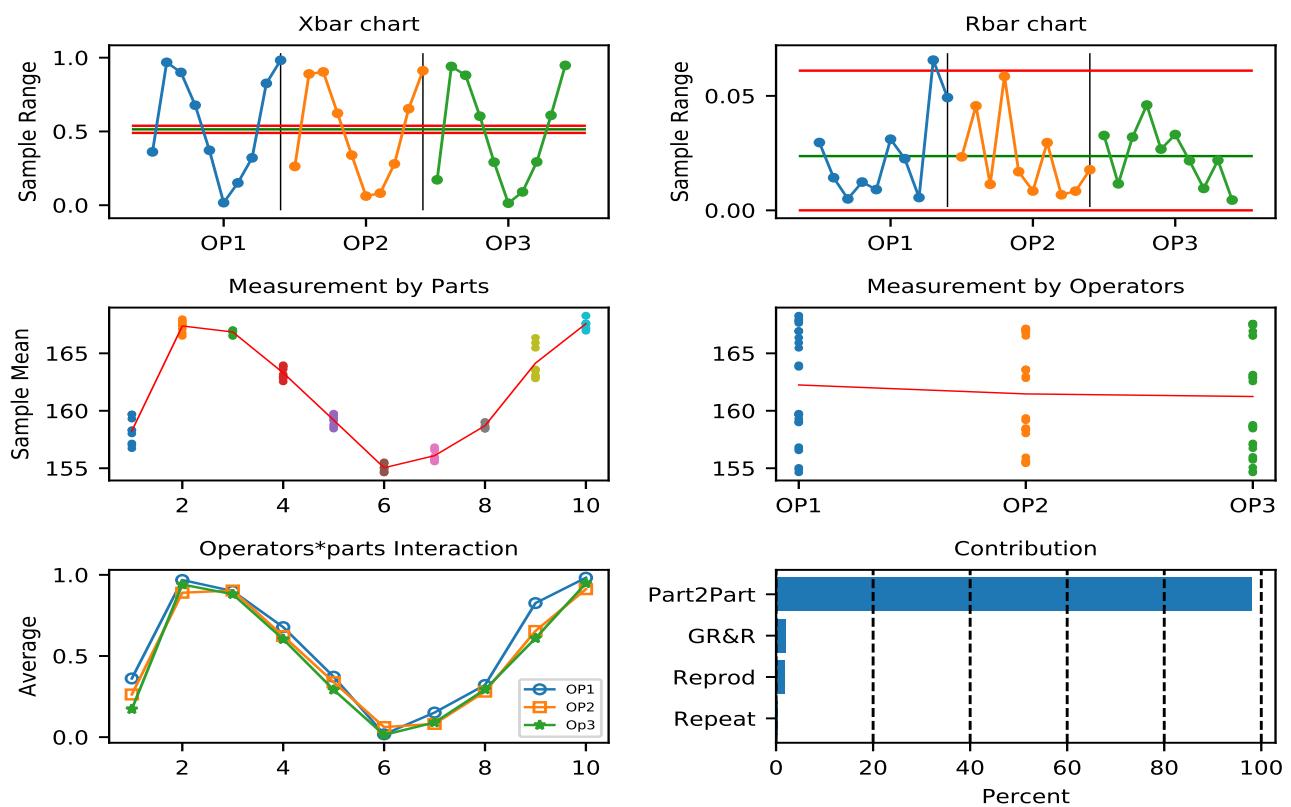
2.80 defect_row



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	300.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.083574568	
Appraiser Variation(AV, Reproducibility)	0.012967177605642146	
GRR	0.08457455948122279	
Part Variation(PV)	0.25549365111111105	
Total Variation(TV)	0.2691279656028504	
Precision/Tolerance Ratio	0.169	

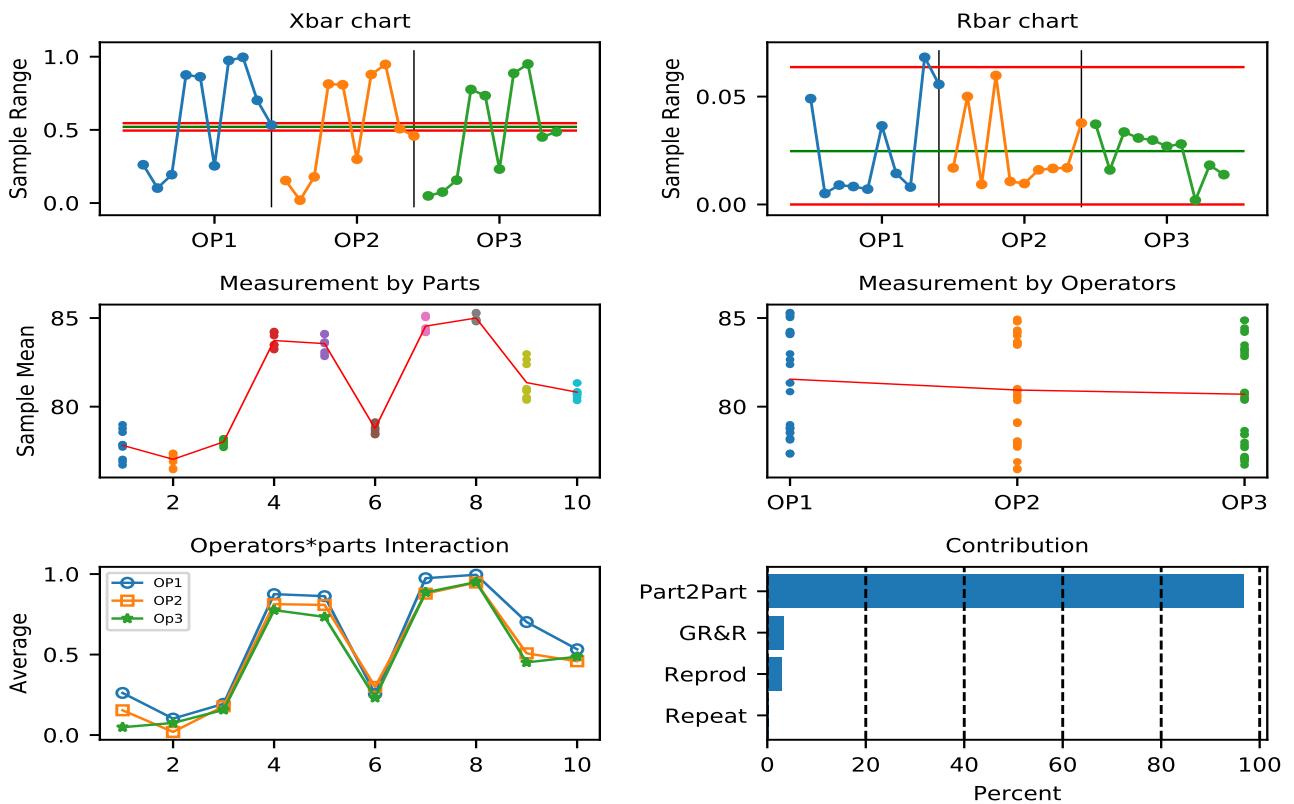
2.81 roiCenter_mean



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	300.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.1915393293333345	
Appraiser Variation(AV, Reproducibility)	0.524689174364788	
GRR	0.558557109324612	
Part Variation(PV)	3.943231355555566	
Total Variation(TV)	3.982594577384654	
Precision/Tolerance Ratio	1.117	

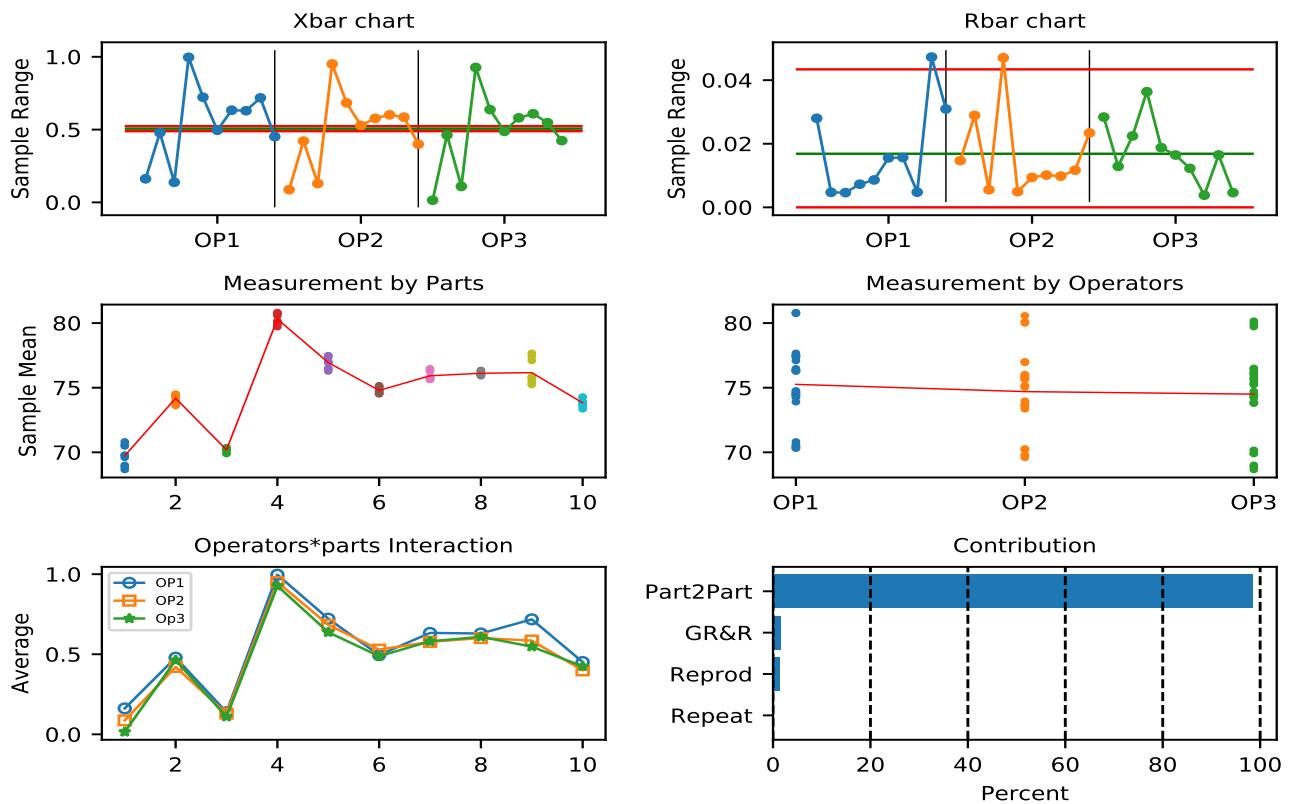
2.82 roiTR_mean



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.2	
Equipment Variation(EV, Repeatability)	0.12952502266666585	
Appraiser Variation(AV, Reproducibility)	0.44388346714834614	
GRR	0.4623951382794127	
Part Variation(PV)	2.5075437688888886	
Total Variation(TV)	2.549820585217307	
Precision/Tolerance Ratio	346.796	

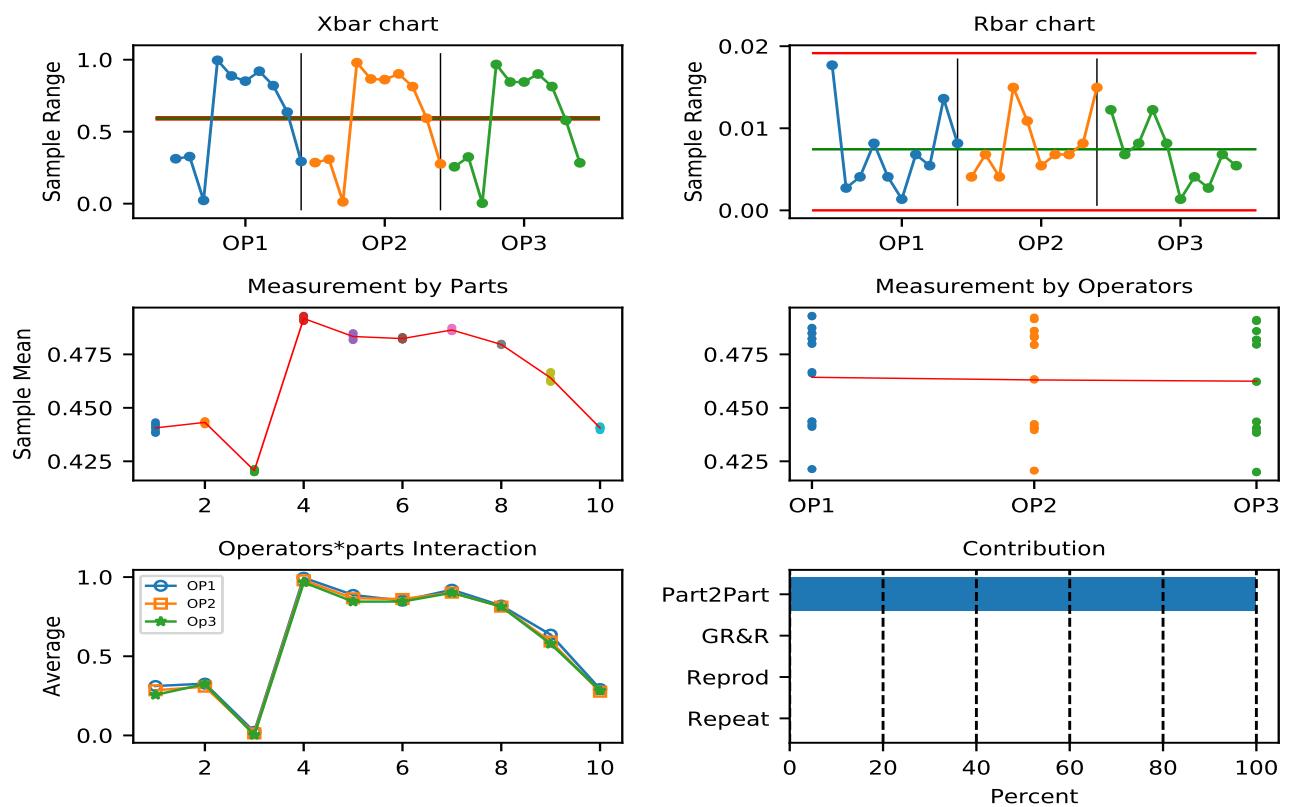
2.83 roiBR_mean



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.2	
Equipment Variation(EV, Repeatability)	0.121112030666666615	
Appraiser Variation(AV, Reproducibility)	0.3959538917844348	
GRR	0.41406232428396983	
Part Variation(PV)	3.328845519999994	
Total Variation(TV)	3.3544984877646726	
Precision/Tolerance Ratio	310.547	

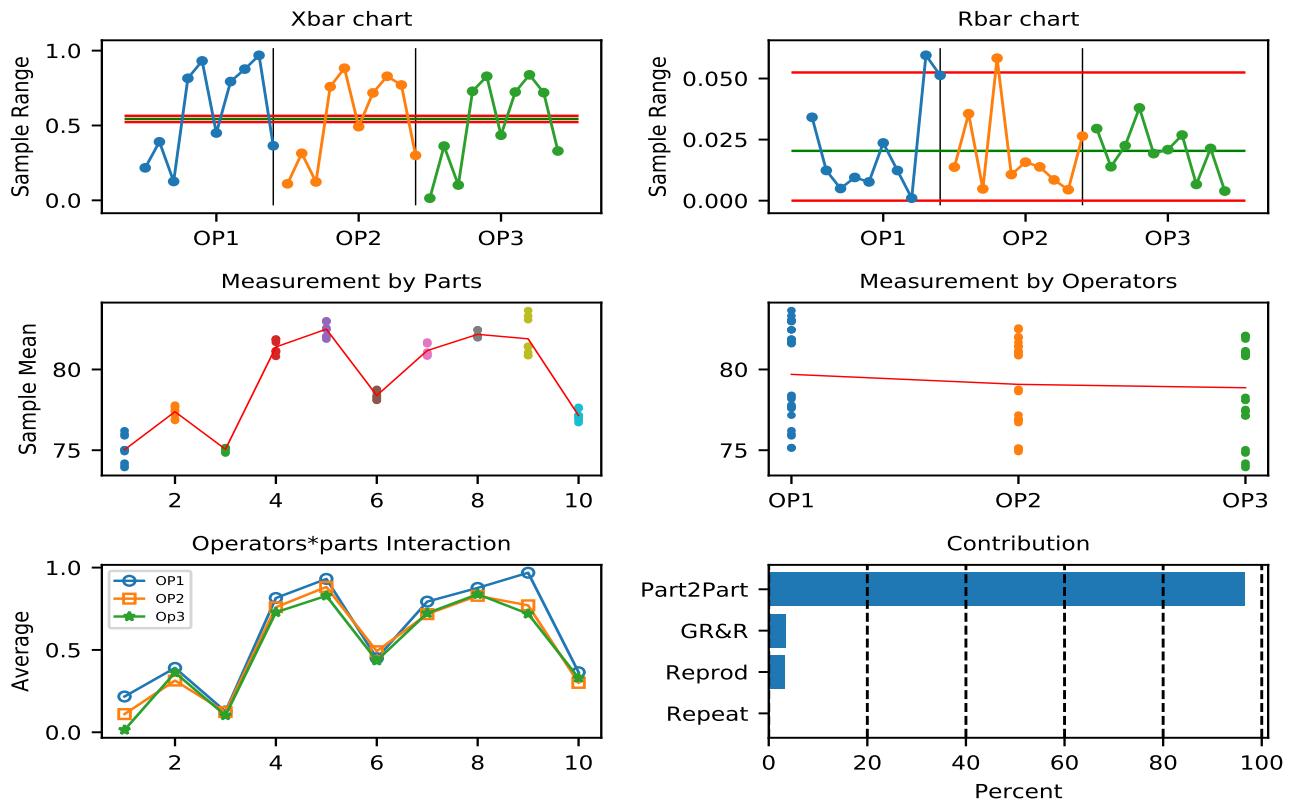
2.84 RI



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	300.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.00032297066666666661	
Appraiser Variation(AV, Reproducibility)	0.0009537081865764027	
GRR	0.0010069107987651941	
Part Variation(PV)	0.022382042222222225	
Total Variation(TV)	0.02240467994402081	
Precision/Tolerance Ratio	0.002	

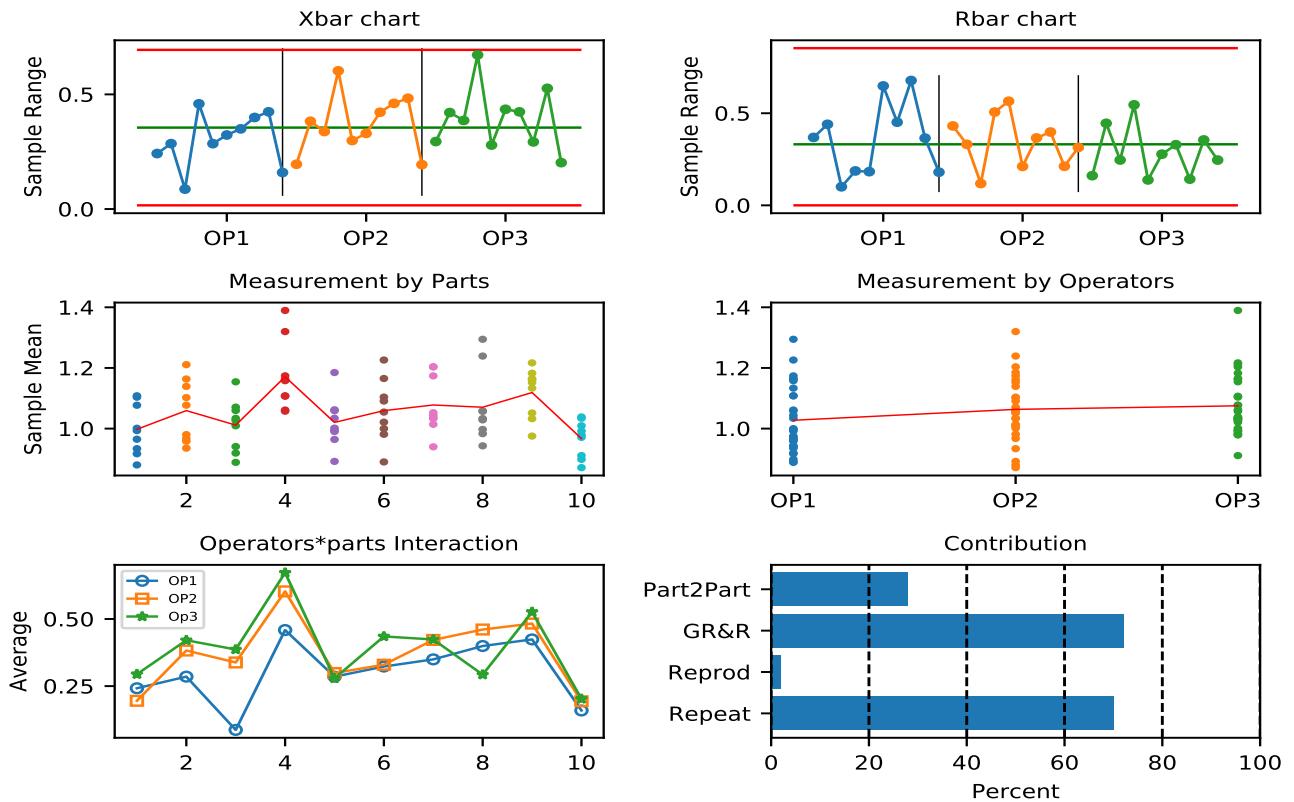
2.85 roiBL_mean



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	300.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.1171753333333283	
Appraiser Variation(AV, Reproducibility)	0.43330170138252394	
GRR	0.4488657072697441	
Part Variation(PV)	2.3484575400000045	
Total Variation(TV)	2.390969100667267	
Precision/Tolerance Ratio	0.898	

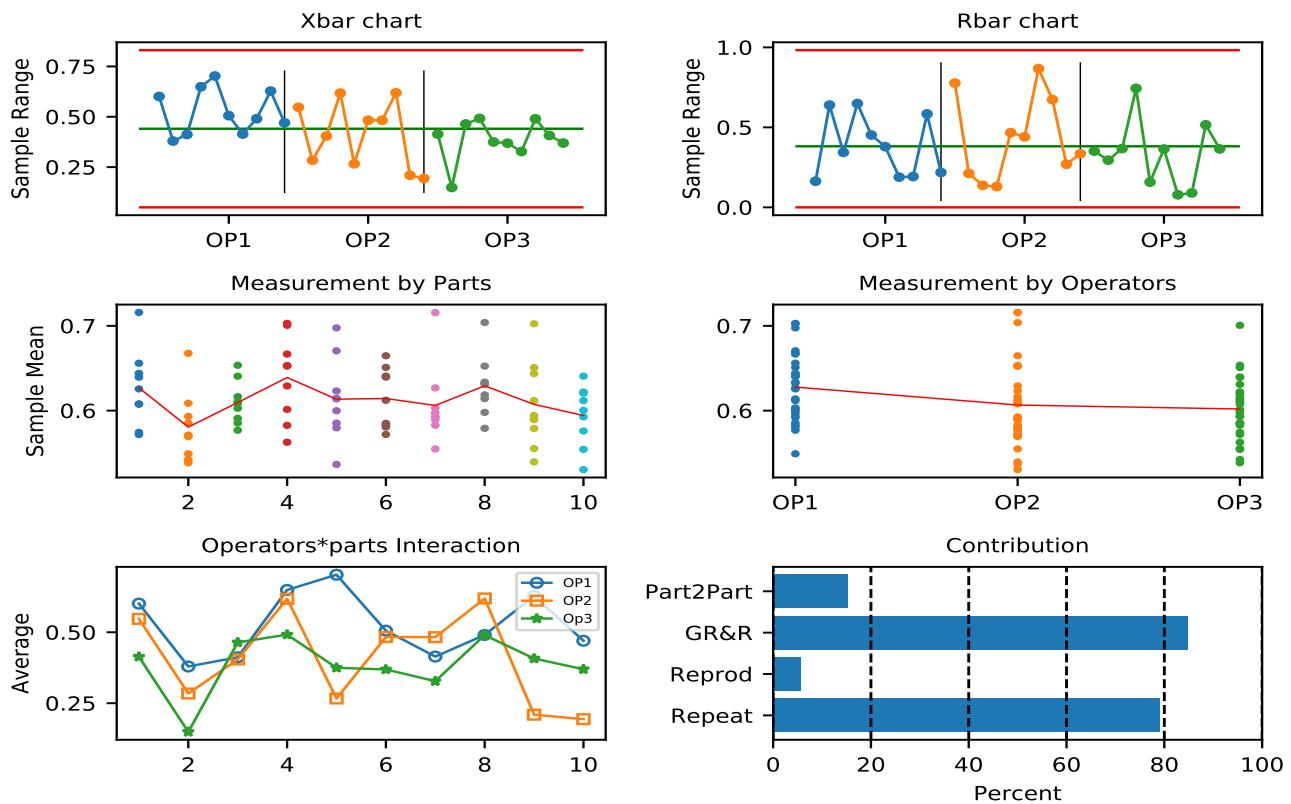
2.86 defect_row



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	0.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.101473838666666668	
Appraiser Variation(AV, Reproducibility)	0.01668815851223508	
GRR	0.10283693192758223	
Part Variation(PV)	0.064077028888888887	
Total Variation(TV)	0.12116641531177556	
Precision/Tolerance Ratio	inf	

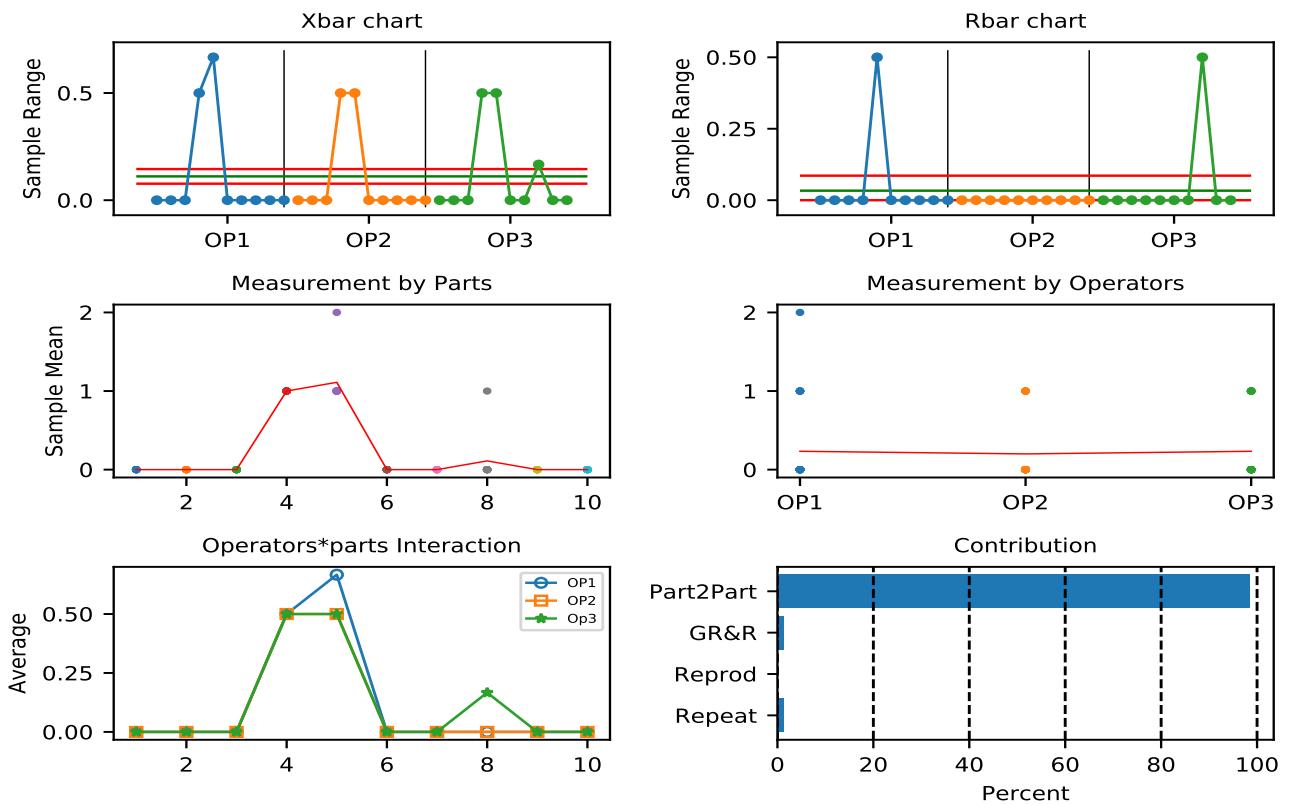
2.87 defect_col



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1000.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.04179516133333334	
Appraiser Variation(AV, Reproducibility)	0.011169681308583163	
GRR	0.04326196125252153	
Part Variation(PV)	0.018393613333333298	
Total Variation(TV)	0.0470098107087324	
Precision/Tolerance Ratio	0.026	

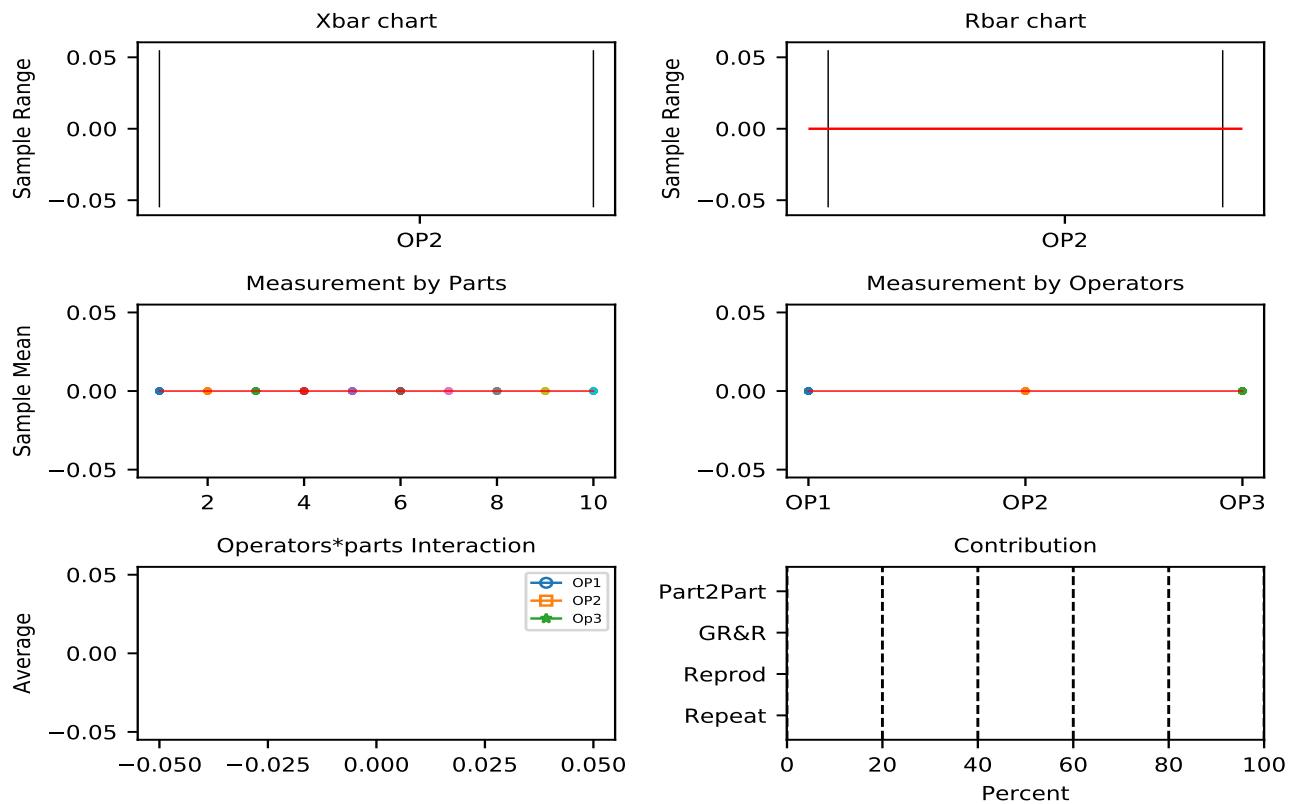
2.88 defect_singlet



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	2.5	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.039386666666666667	
Appraiser Variation(AV, Reproducibility)	0.01588480492191852	
GRR	0.04246924226447321	
Part Variation(PV)	0.34955555555555556	
Total Variation(TV)	0.35212600437666003	
Precision/Tolerance Ratio	10.193	

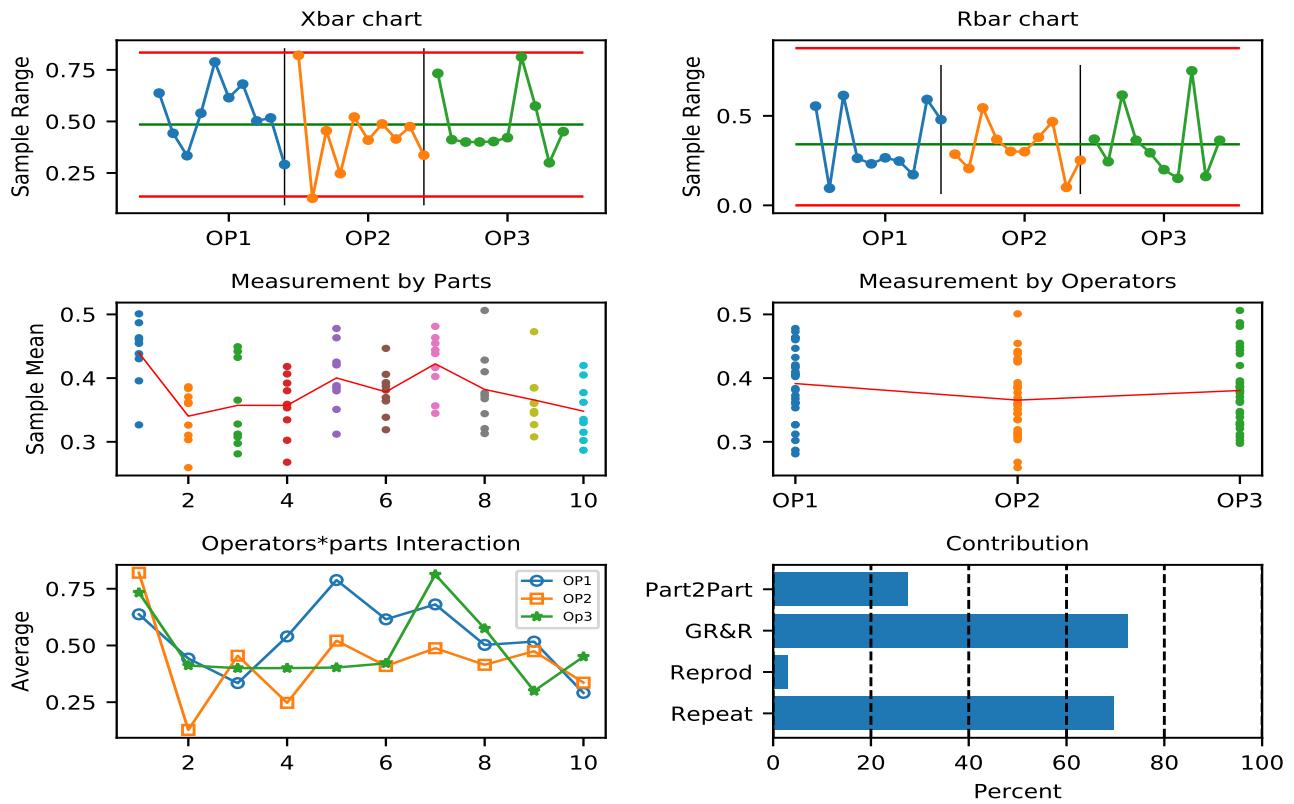
2.89 defect_couplet



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	6.5	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.0	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.0	
Part Variation(PV)	0.0	
Total Variation(TV)	0.0	
Precision/Tolerance Ratio	0.0	

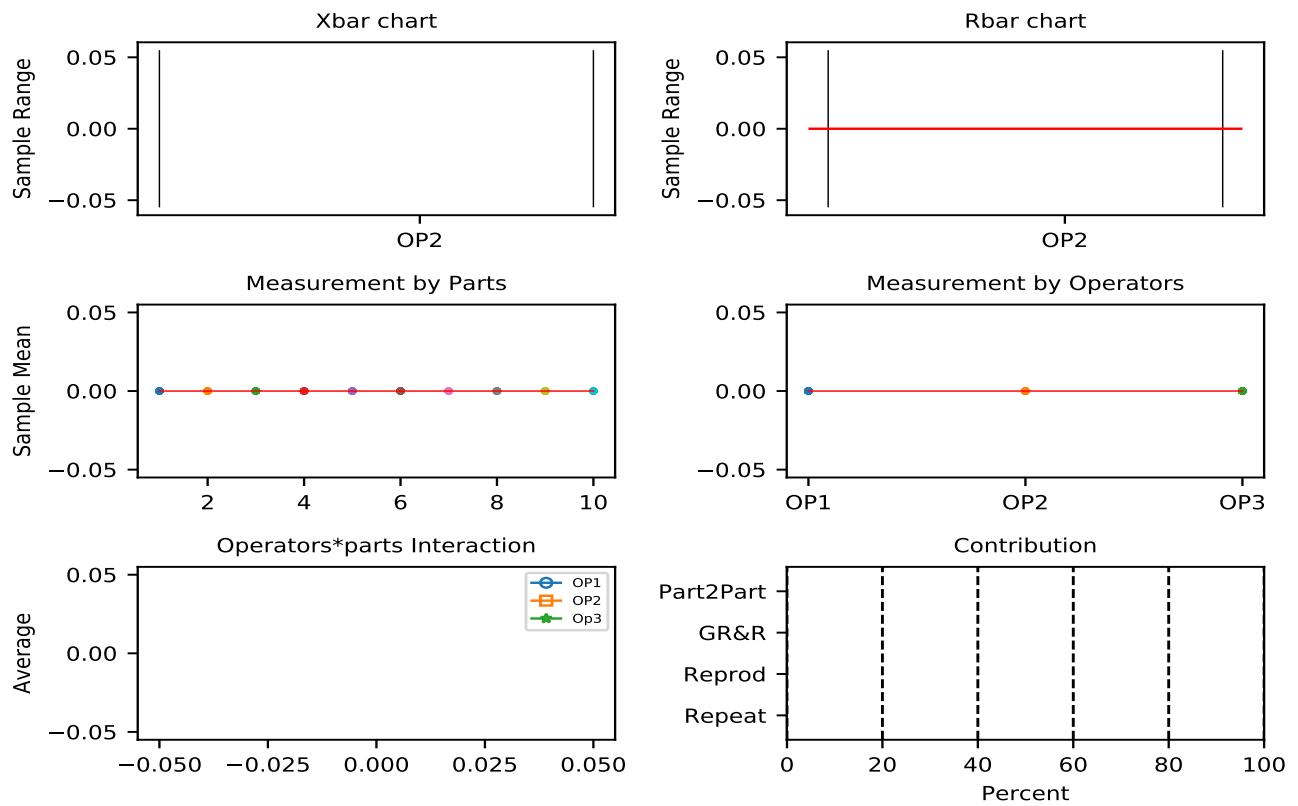
2.90 defect_row



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	5.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.04970794266666667	
Appraiser Variation(AV, Reproducibility)	0.0101274992686358	
GRR	0.05072914158143069	
Part Variation(PV)	0.03127124000000001	
Total Variation(TV)	0.059593089001380356	
Precision/Tolerance Ratio	6.087	

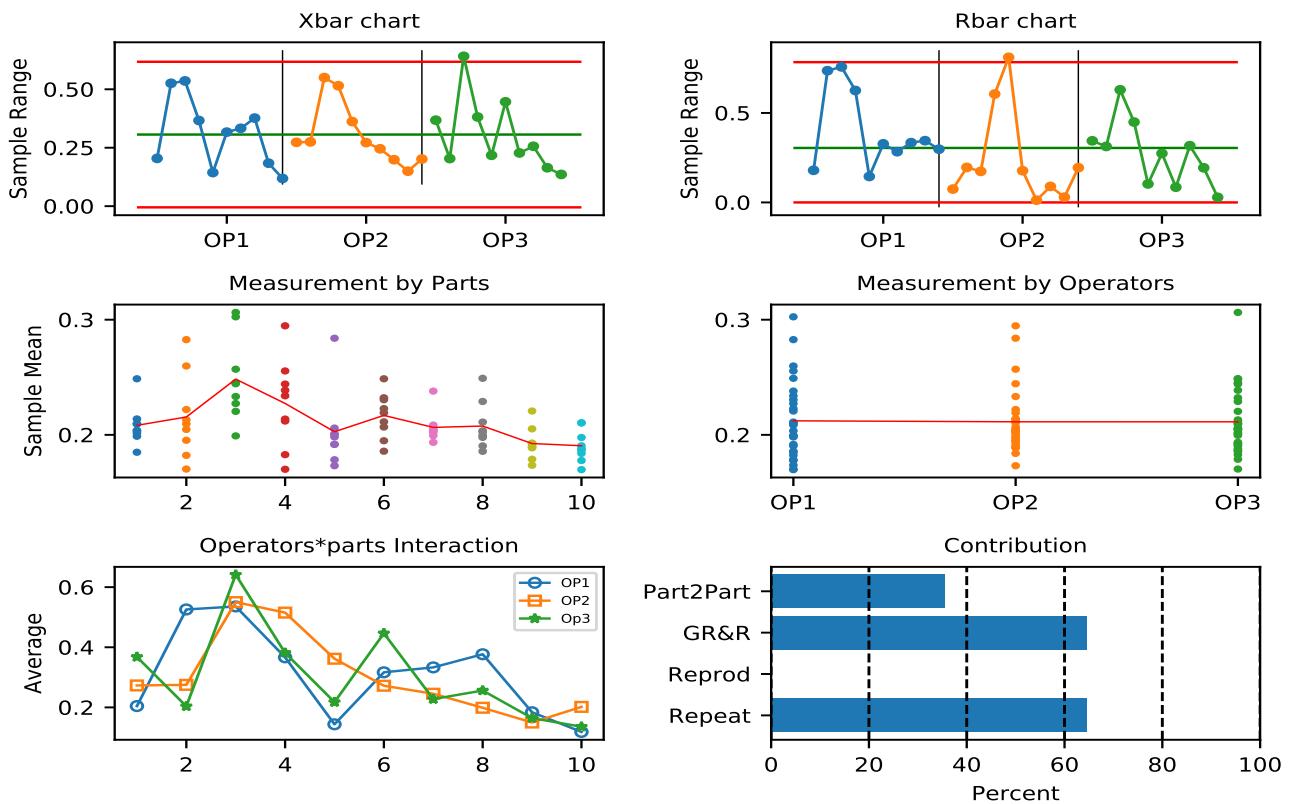
2.91 defect_cluster



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	6.5	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.0	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.0	
Part Variation(PV)	0.0	
Total Variation(TV)	0.0	
Precision/Tolerance Ratio	0.0	

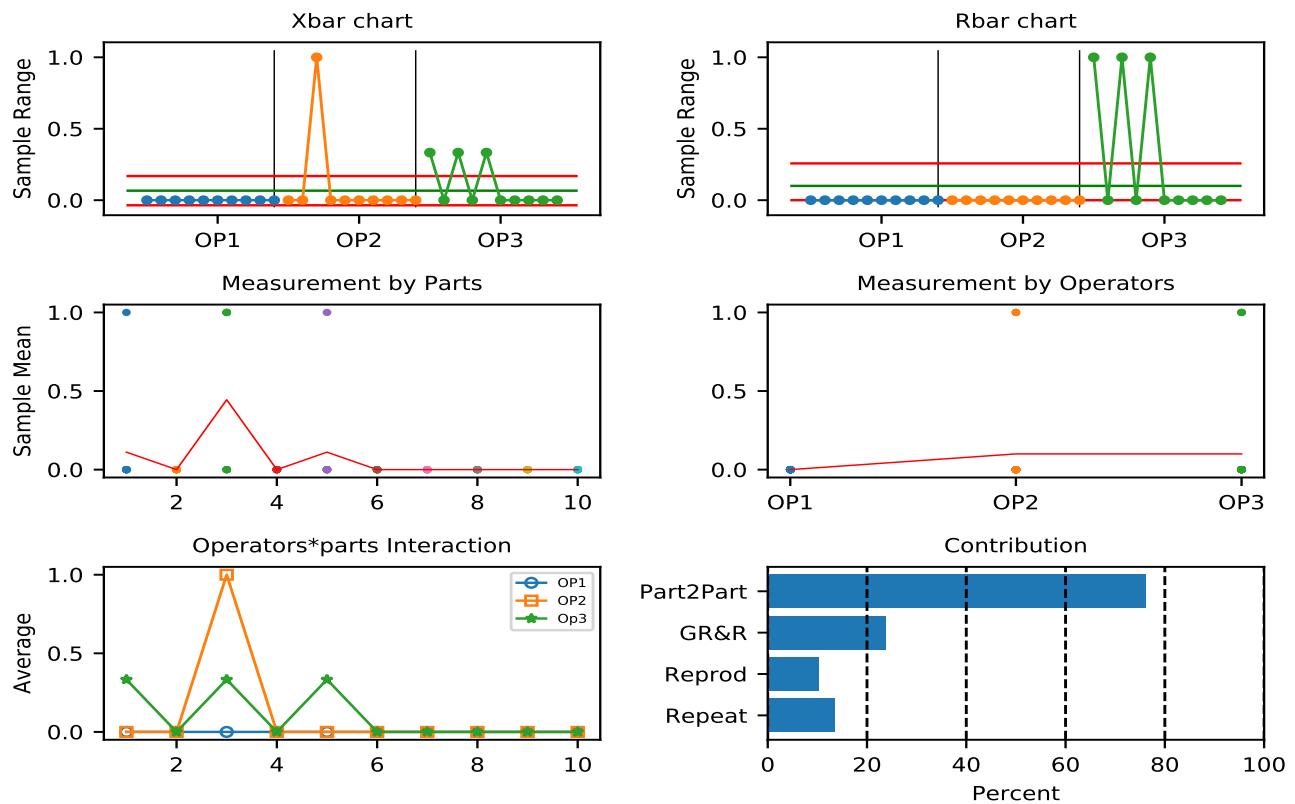
2.92 defect_col



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	6.5	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.024547740000000002	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.024547740000000002	
Part Variation(PV)	0.01819786222222215	
Total Variation(TV)	0.030557384190512488	
Precision/Tolerance Ratio	2.266	

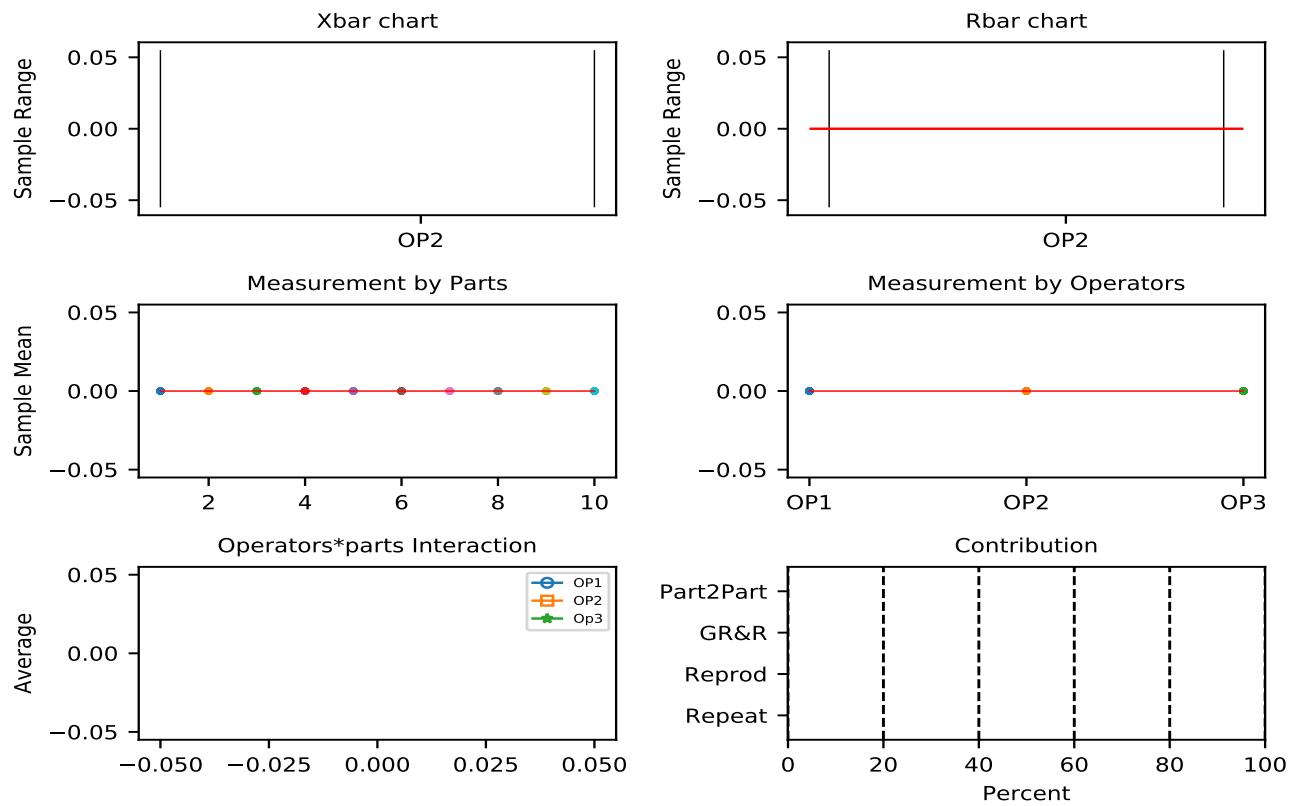
2.93 defect_singlet



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	2.5	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.05907999999999994	
Appraiser Variation(AV, Reproducibility)	0.05118581724136743	
GRR	0.07816926689349636	
Part Variation(PV)	0.1398222222222222	
Total Variation(TV)	0.16018953809105999	
Precision/Tolerance Ratio	18.761	

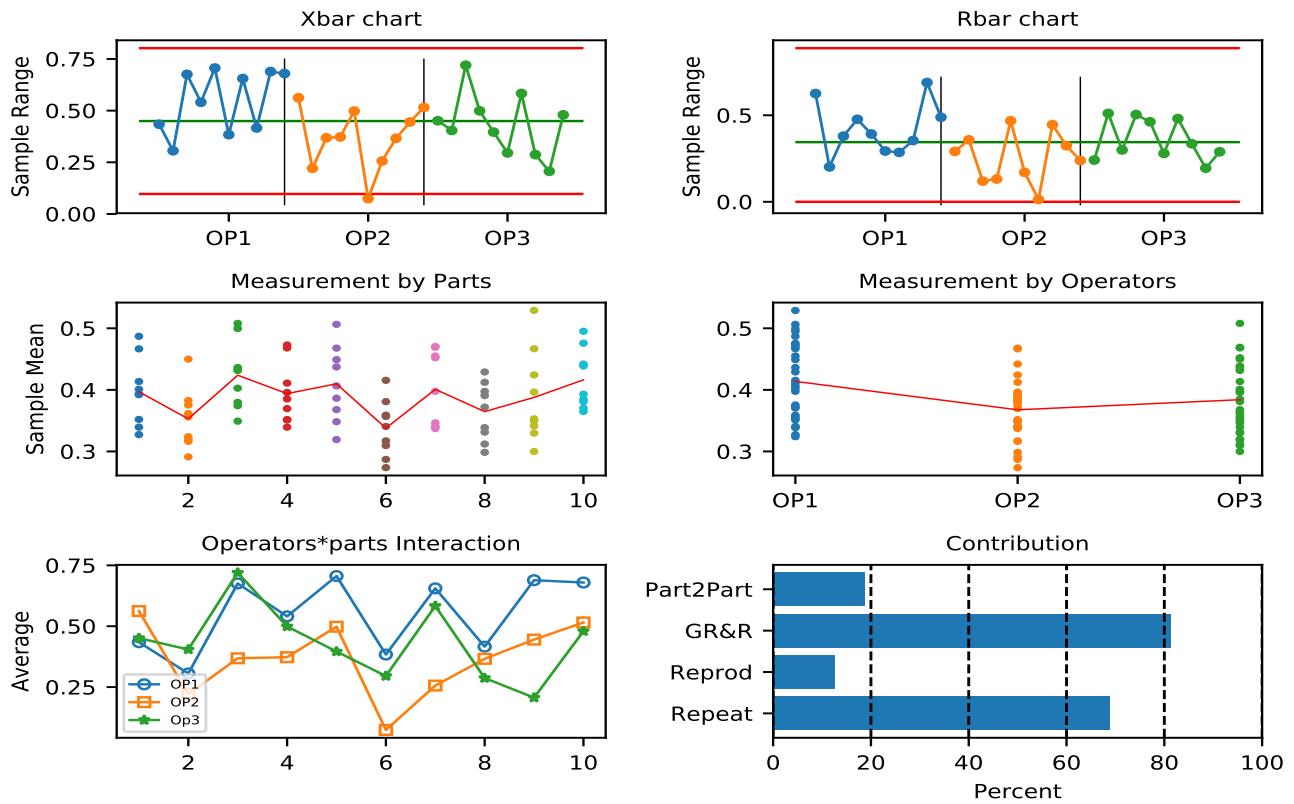
2.94 defect_couplet



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	6.5	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.0	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.0	
Part Variation(PV)	0.0	
Total Variation(TV)	0.0	
Precision/Tolerance Ratio	0.0	

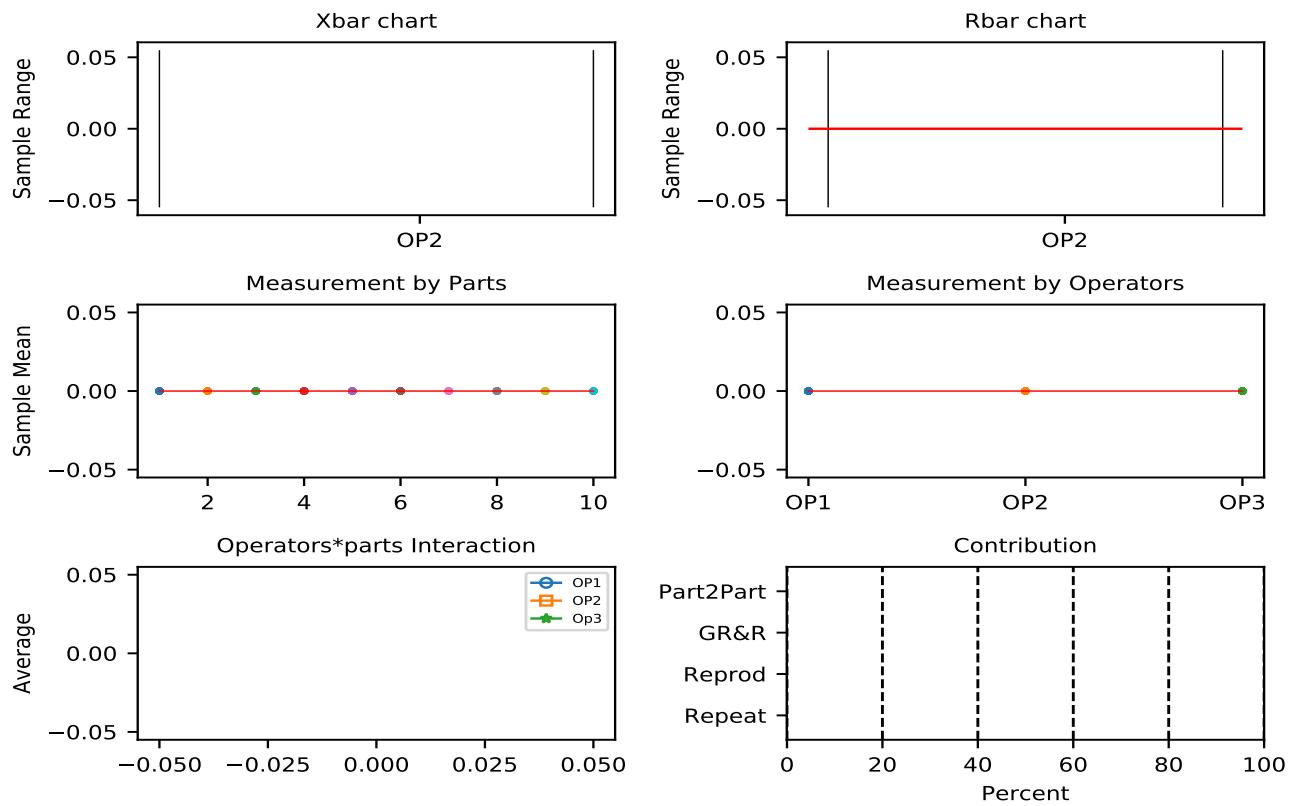
2.95 defect_row



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	5.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.052004185333333335	
Appraiser Variation(AV, Reproducibility)	0.022187980375525513	
GRR	0.056539736162528983	
Part Variation(PV)	0.027055599999999997	
Total Variation(TV)	0.06267971966025683	
Precision/Tolerance Ratio	6.785	

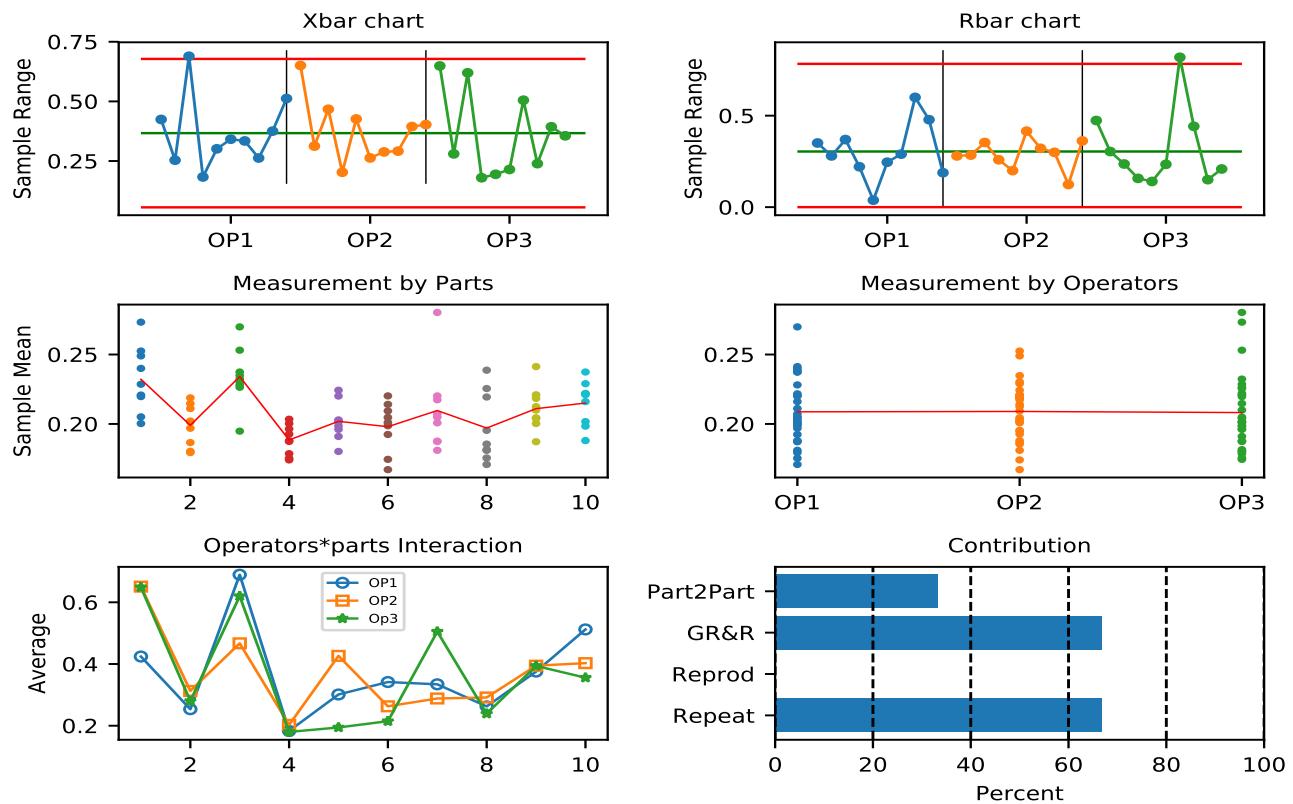
2.96 defect_cluster



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	6.5	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.0	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.0	
Part Variation(PV)	0.0	
Total Variation(TV)	0.0	
Precision/Tolerance Ratio	0.0	

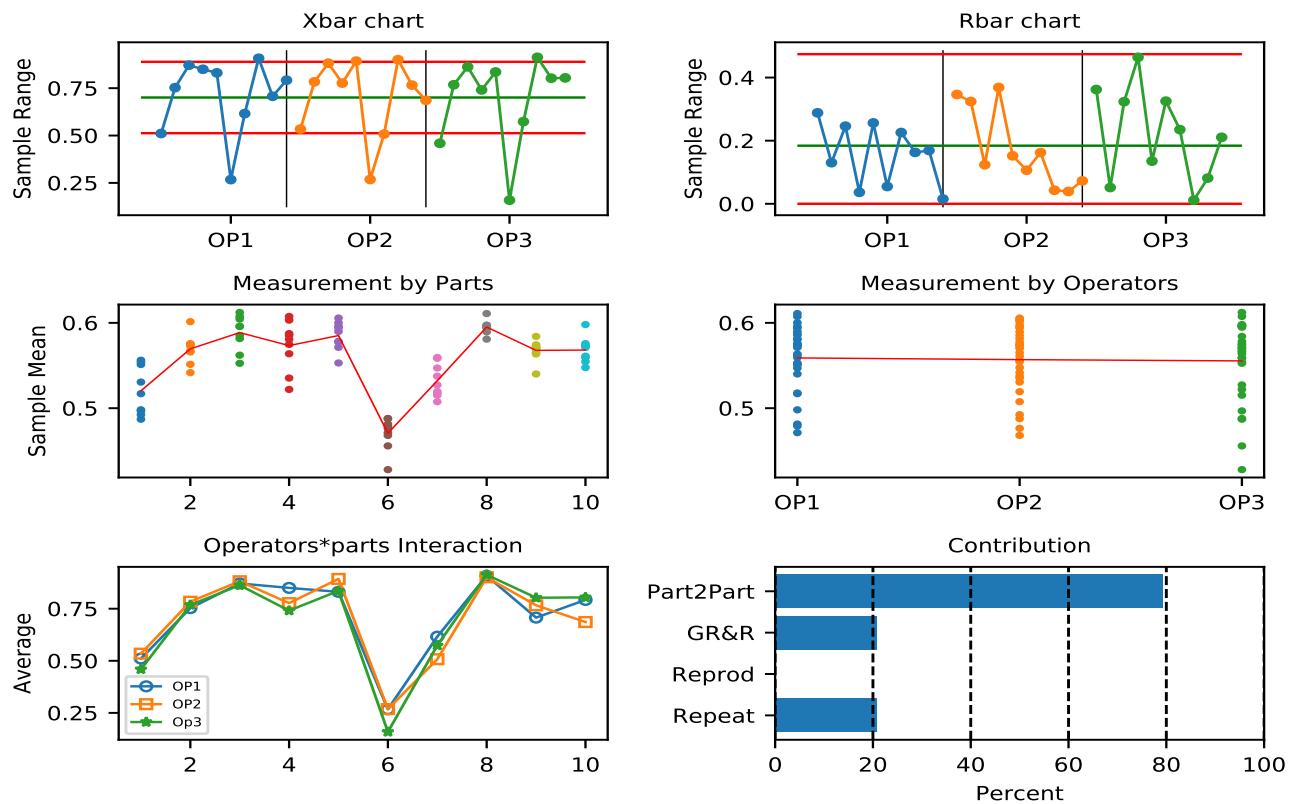
2.97 defect_col



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	6.5	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.020337305333333333	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.020337305333333333	
Part Variation(PV)	0.0143667333333334	
Total Variation(TV)	0.024899980218713823	
Precision/Tolerance Ratio	1.877	

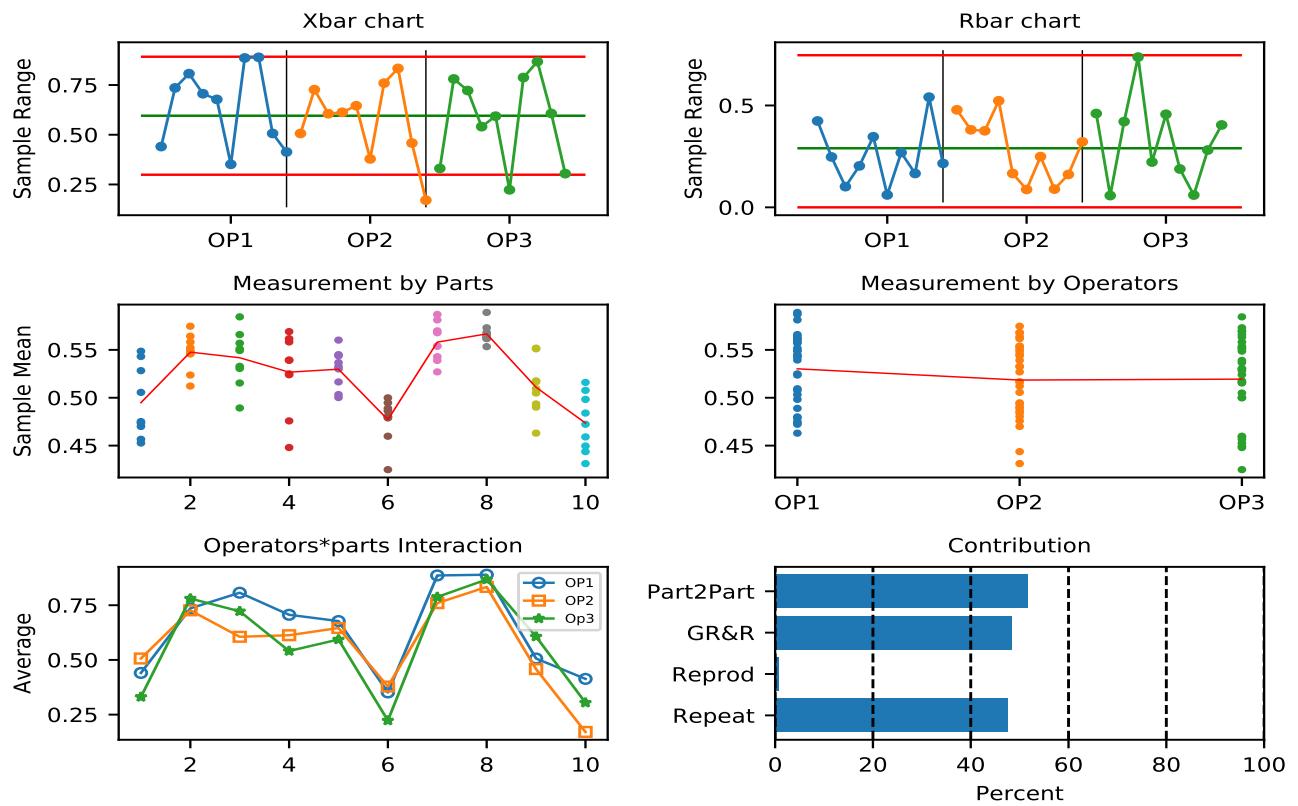
2.98 SFR_60IH_TL_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	0.45	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.020035997333333336	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.020035997333333336	
Part Variation(PV)	0.03915371777777779	
Total Variation(TV)	0.043982437460459295	
Precision/Tolerance Ratio	26.715	

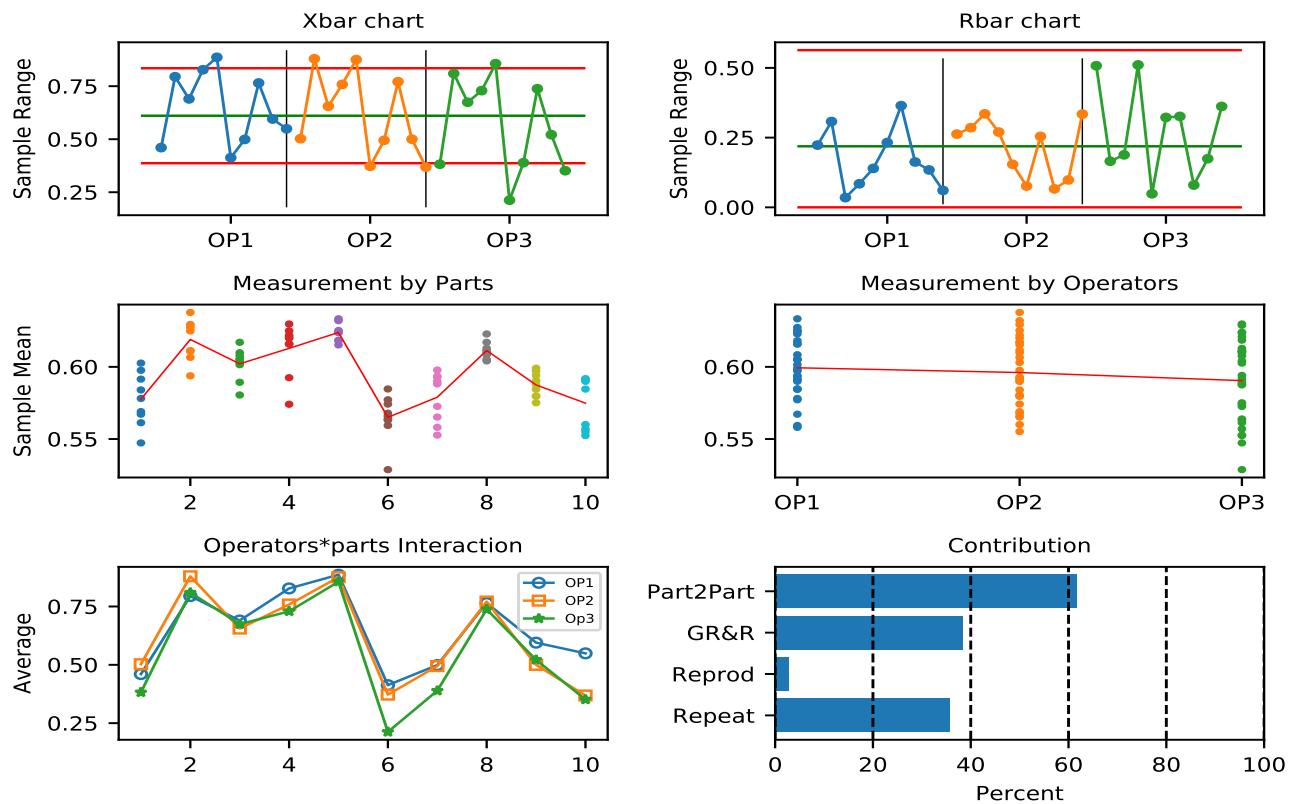
2.99 SFR_60IH_TR_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	inf	
lower limit(LSL)	-inf	
Equipment Variation(EV, Repeatability)	0.028127988000000007	
Appraiser Variation(AV, Reproducibility)	0.003374065558137602	
GRR	0.028329631612831727	
Part Variation(PV)	0.0293032422222223	
Total Variation(TV)	0.04075841056828618	
Precision/Tolerance Ratio	0.0	

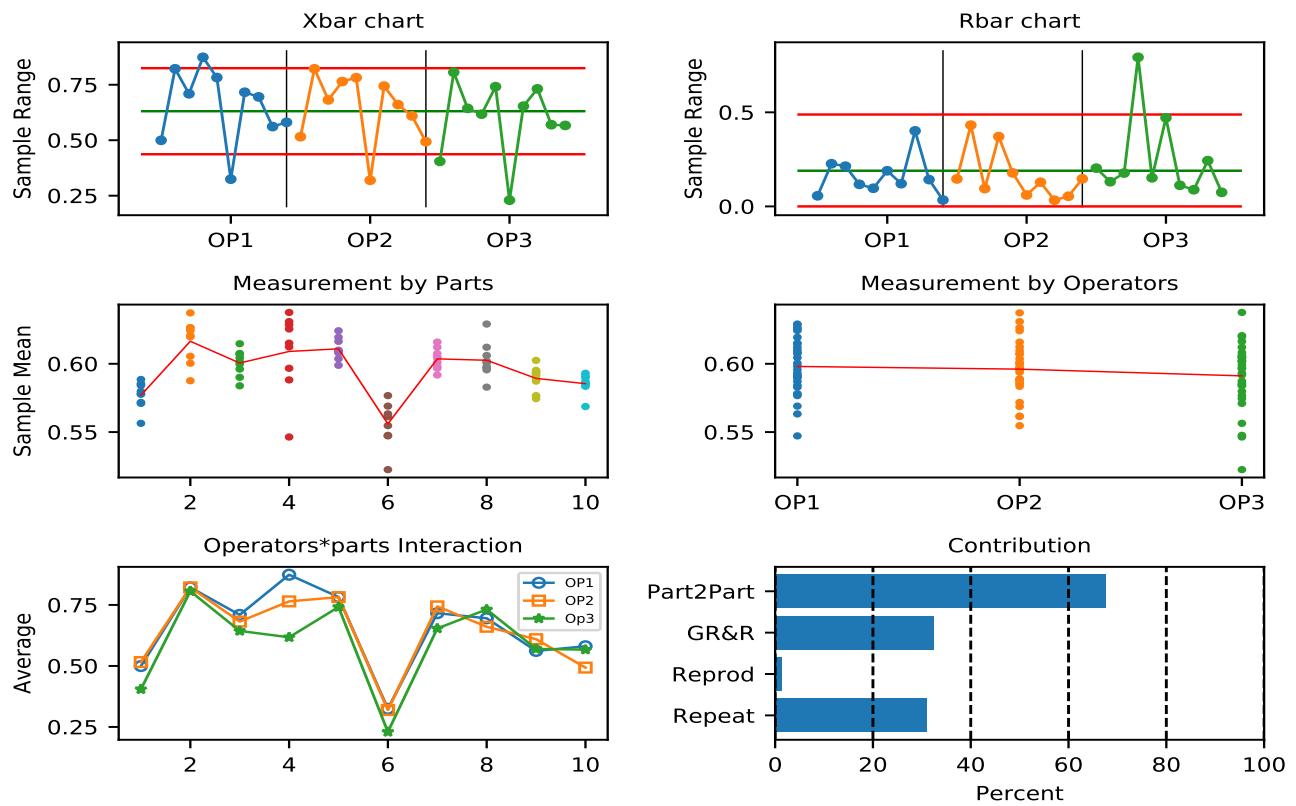
2.100 SFR_30IH_TL_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.4	
Equipment Variation(EV, Repeatability)	0.01408073333333333	
Appraiser Variation(AV, Reproducibility)	0.003873076659515873	
GRR	0.014603690424510202	
Part Variation(PV)	0.018501975555555567	
Total Variation(TV)	0.023570975233818958	
Precision/Tolerance Ratio	14.604	

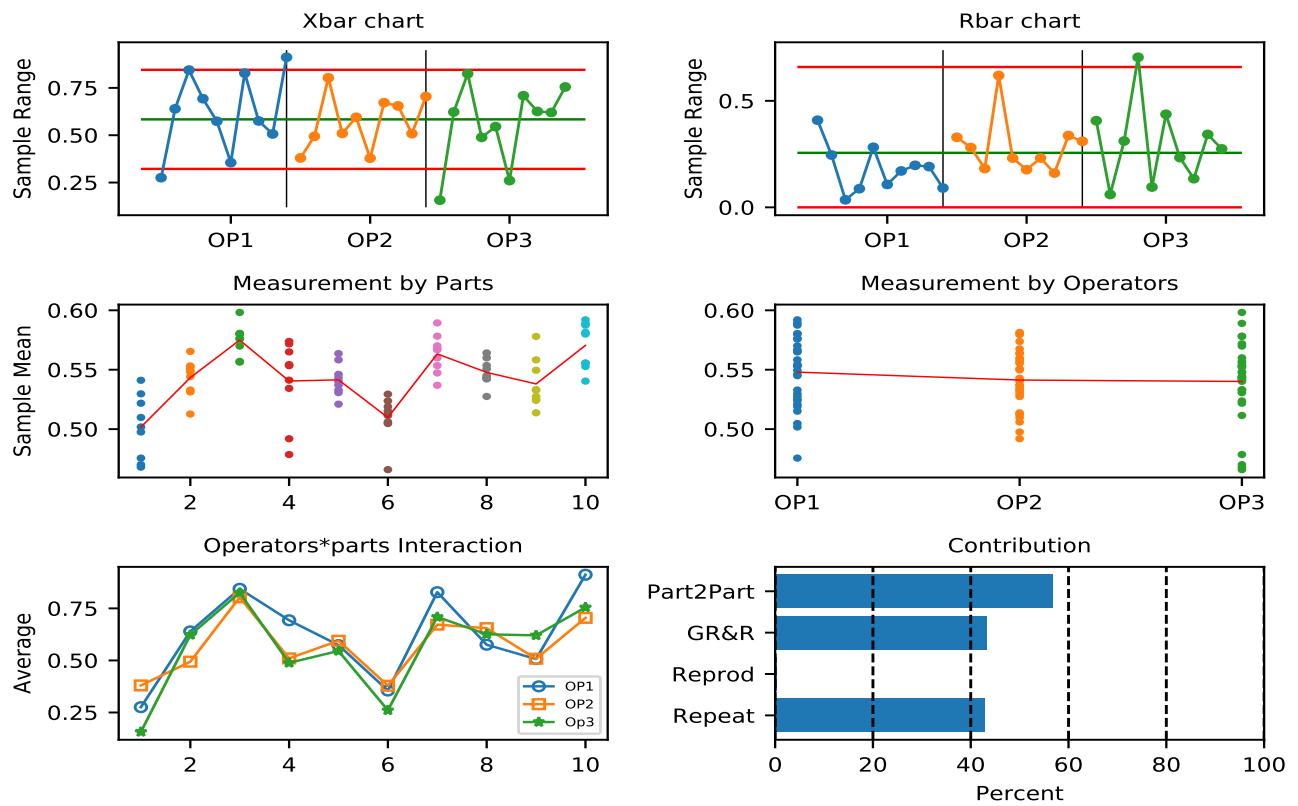
2.101 SFR_30IH_TL_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.4	
Equipment Variation(EV, Repeatability)	0.012895194666666666	
Appraiser Variation(AV, Reproducibility)	0.0027427389213339182	
GRR	0.013183651325859178	
Part Variation(PV)	0.019029804444444454	
Total Variation(TV)	0.023150423742895644	
Precision/Tolerance Ratio	13.184	

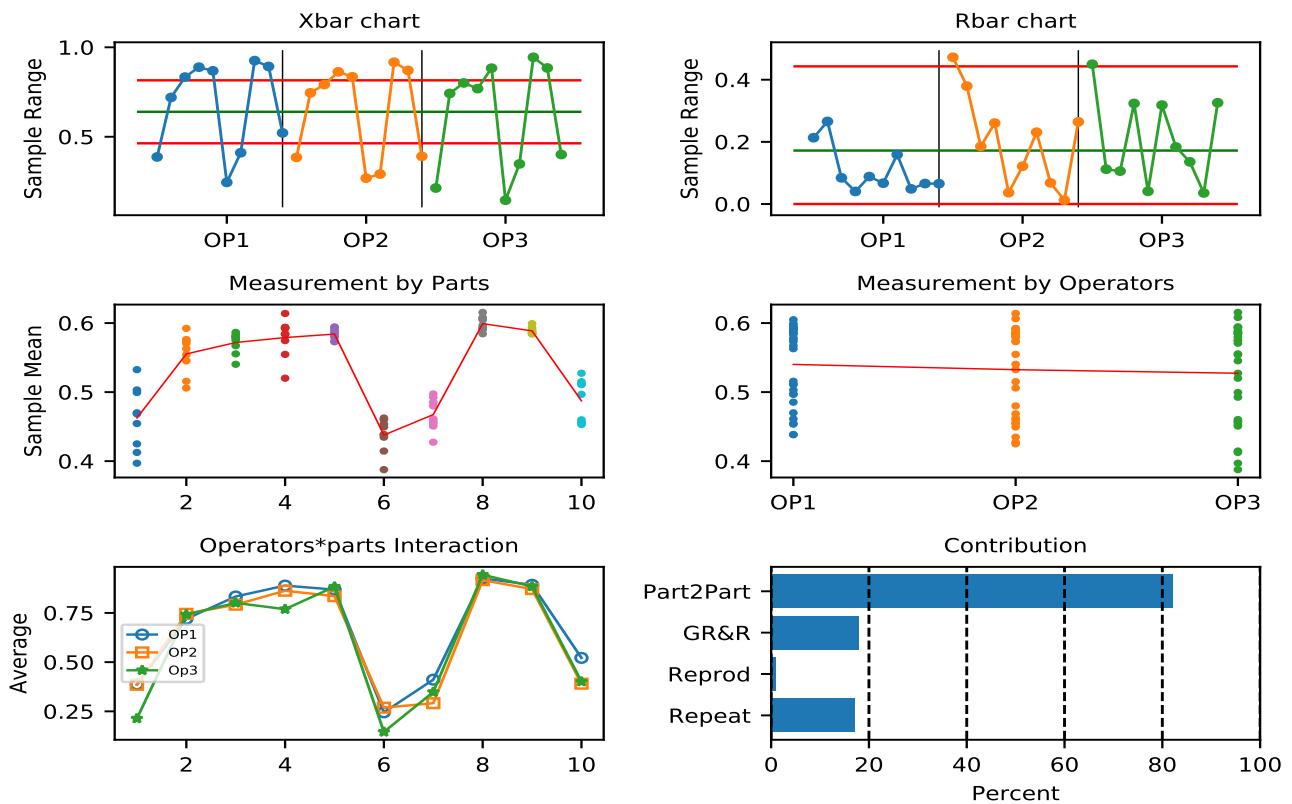
2.102 SFR_60IH_TR_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.27	
Equipment Variation(EV, Repeatability)	0.0199966106666666668	
Appraiser Variation(AV, Reproducibility)	0.0018910738661444013	
GRR	0.020085830789924063	
Part Variation(PV)	0.023028720000000013	
Total Variation(TV)	0.03055752842361211	
Precision/Tolerance Ratio	16.509	

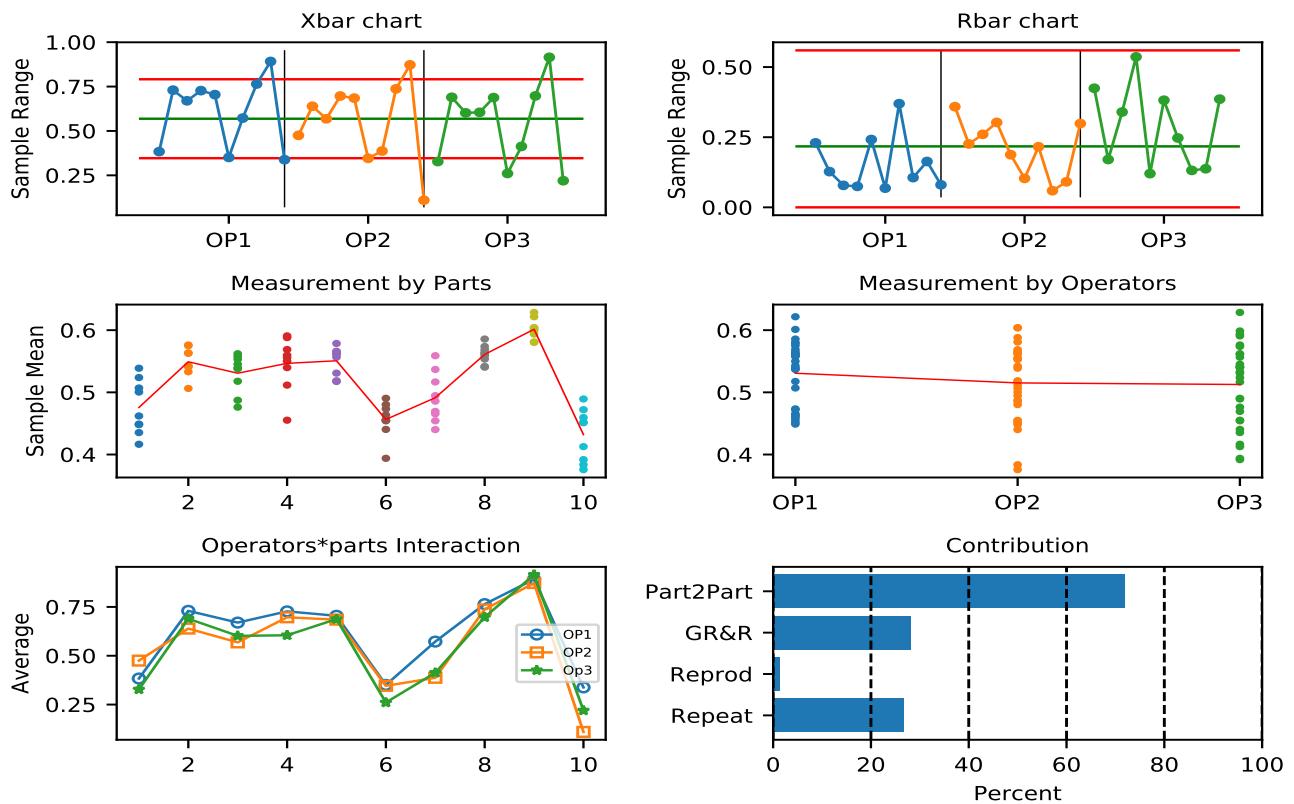
2.103 SFR_60IH_TL_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.27	
Equipment Variation(EV, Repeatability)	0.023141635999999993	
Appraiser Variation(AV, Reproducibility)	0.005185325622460452	
GRR	0.023715457376307137	
Part Variation(PV)	0.050786926666666676	
Total Variation(TV)	0.05605118053005503	
Precision/Tolerance Ratio	19.492	

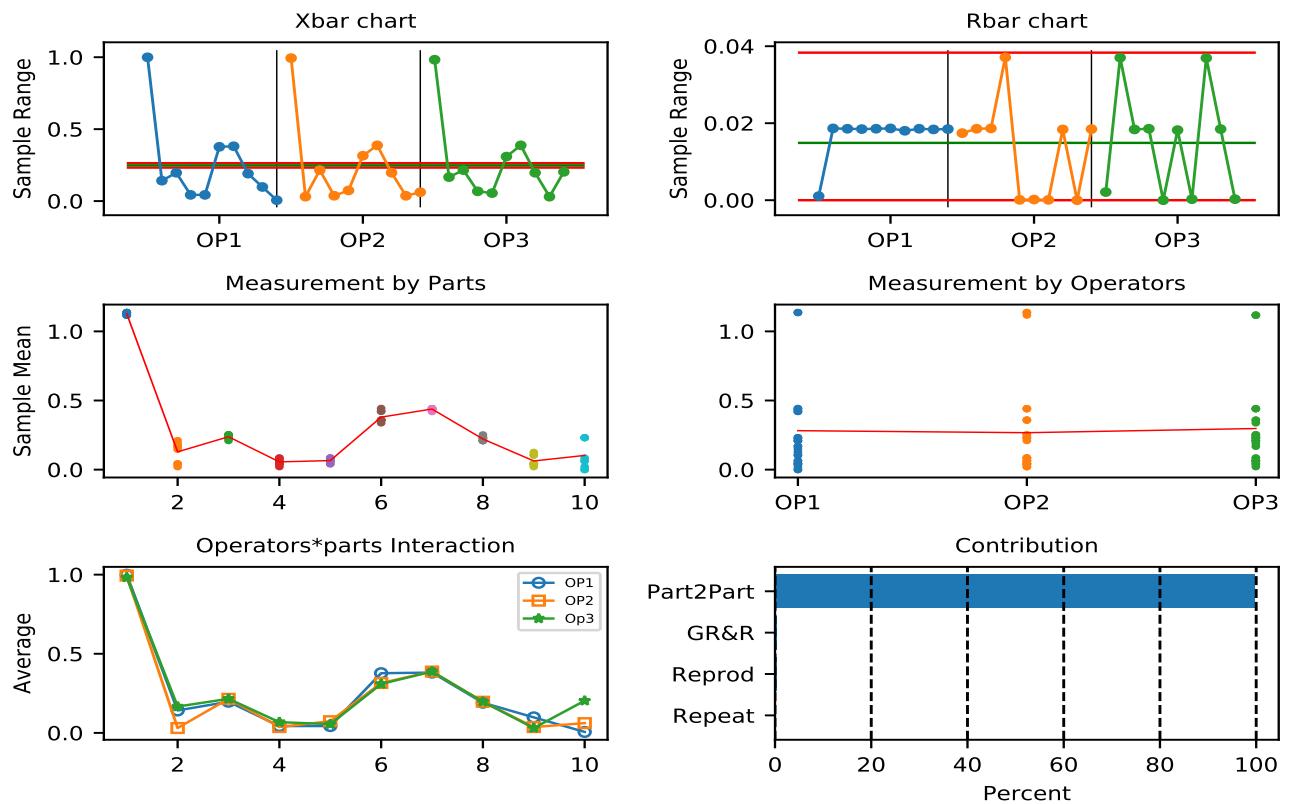
2.104 SFR_60IH_BR_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	0.45	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.03245067466666667	
Appraiser Variation(AV, Reproducibility)	0.007362994199100269	
GRR	0.03327551607259948	
Part Variation(PV)	0.05330722222222224	
Total Variation(TV)	0.06284043213526791	
Precision/Tolerance Ratio	44.367	

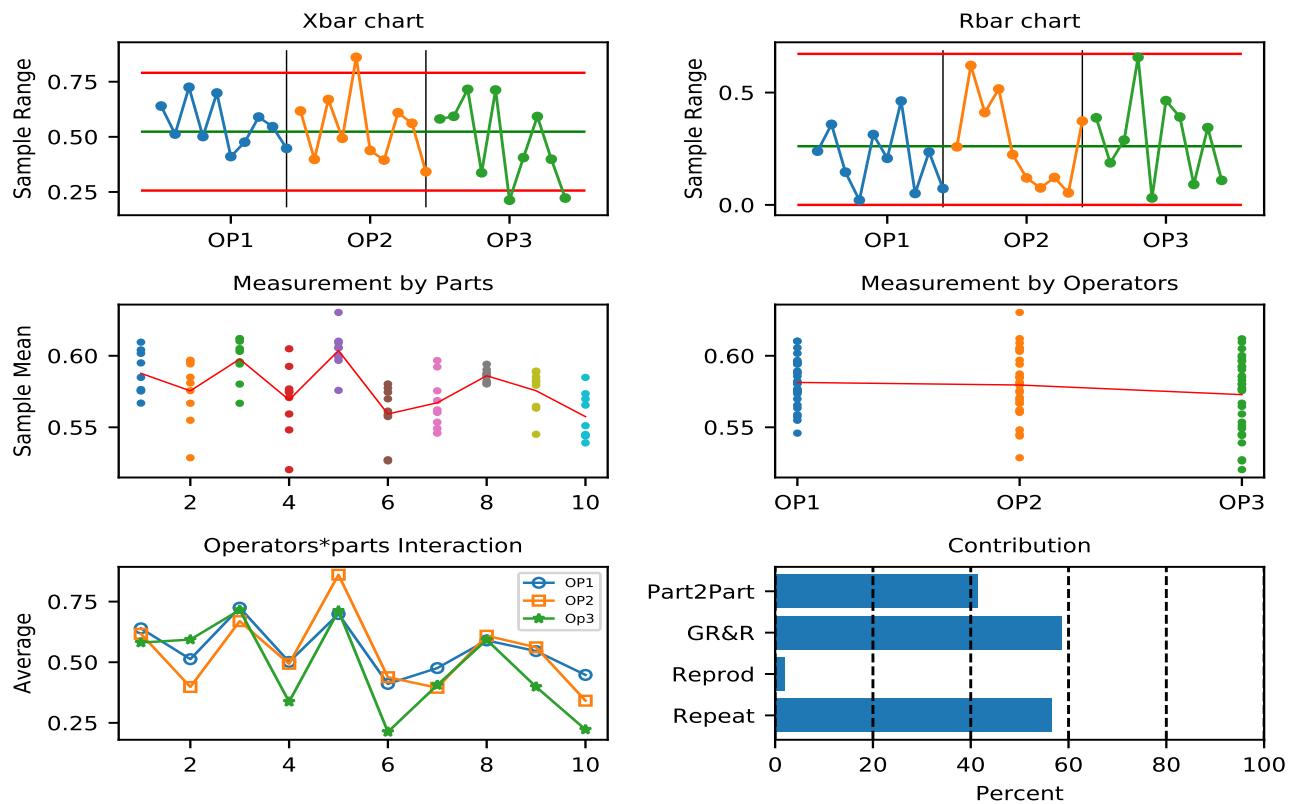
2.105 lower_horiz_theta



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	inf	
lower limit(LSL)	-inf	
Equipment Variation(EV, Repeatability)	0.009998305333333339	
Appraiser Variation(AV, Reproducibility)	0.01571286513111627	
GRR	0.01862418428192793	
Part Variation(PV)	0.3371812888888889	
Total Variation(TV)	0.33769524991764327	
Precision/Tolerance Ratio	0.0	

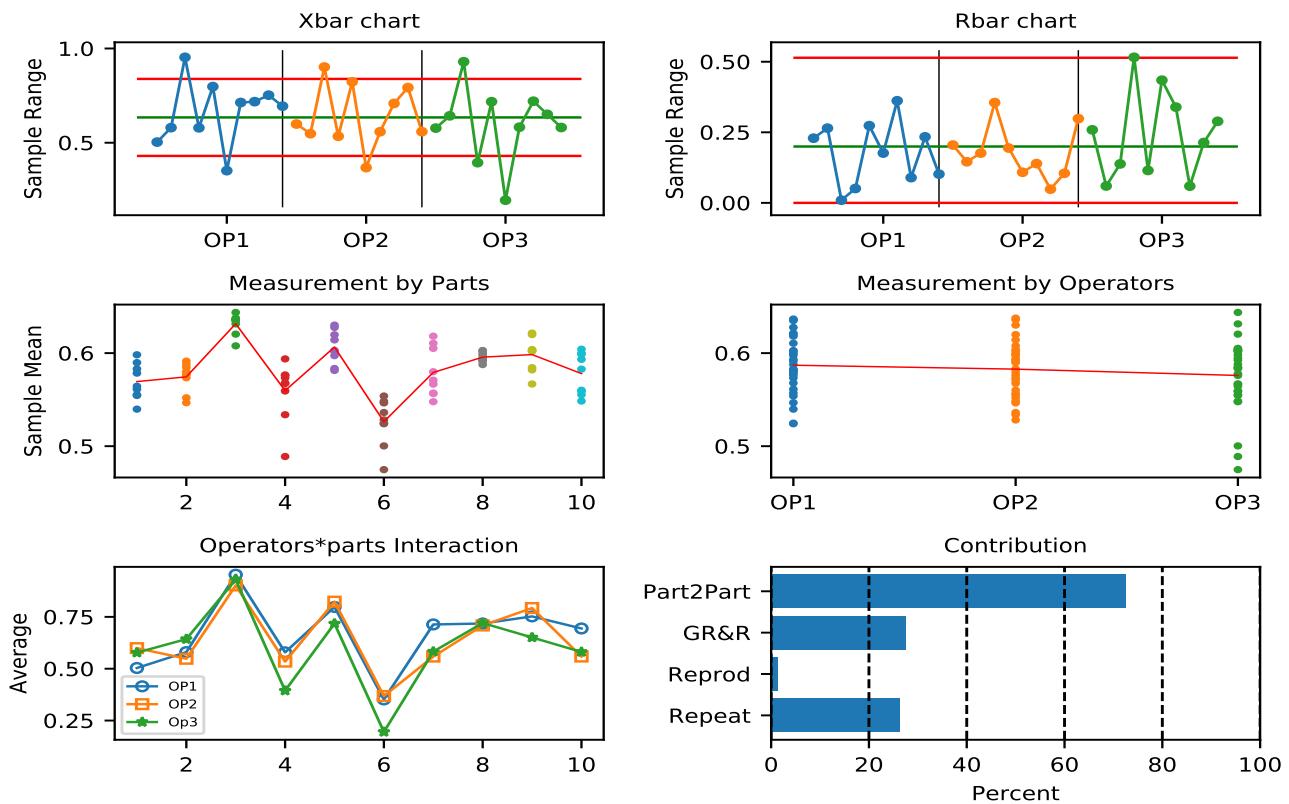
2.106 SFR_30IH_BL_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.5	
Equipment Variation(EV, Repeatability)	0.016950051999999997	
Appraiser Variation(AV, Reproducibility)	0.003216921299227063	
GRR	0.017252618509899436	
Part Variation(PV)	0.014527528888888885	
Total Variation(TV)	0.0225544217630518	
Precision/Tolerance Ratio	20.703	

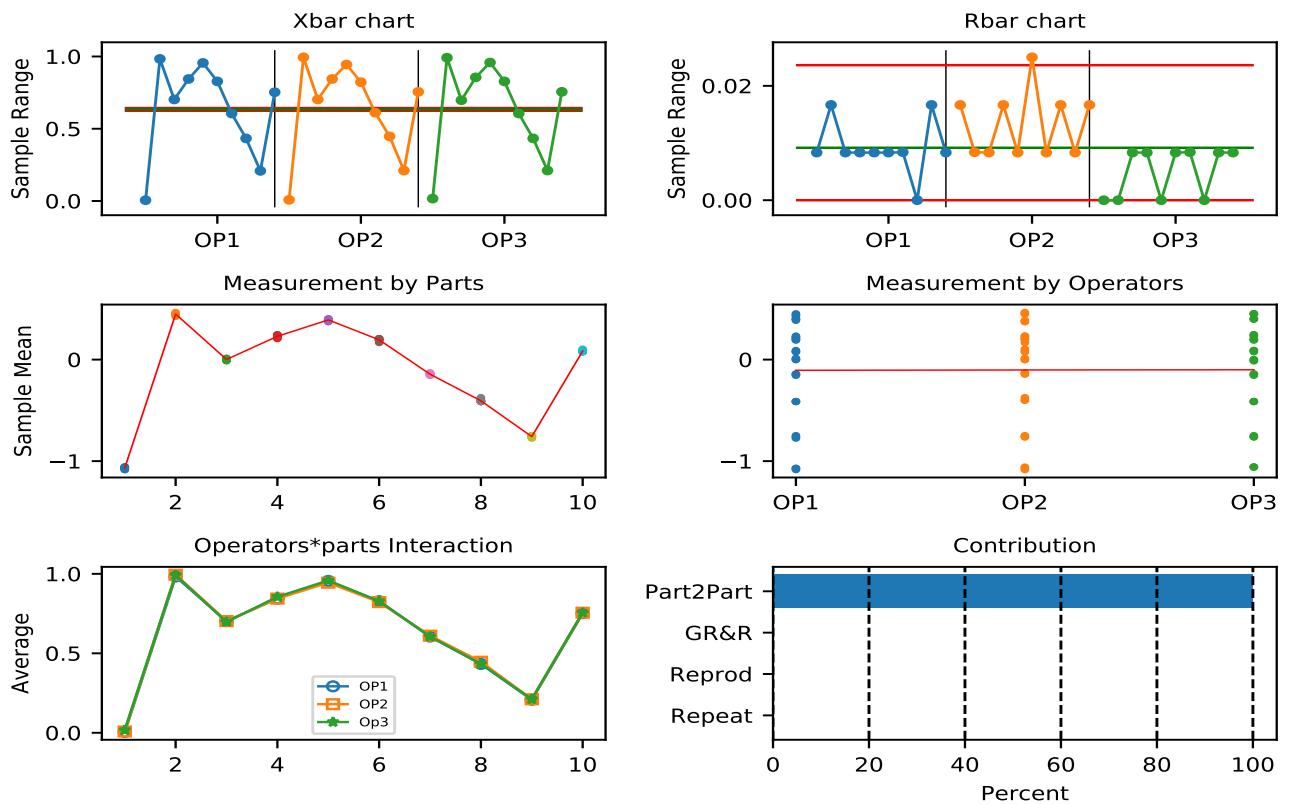
2.107 SFR_30IH_BL_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.5	
Equipment Variation(EV, Repeatability)	0.019921776	
Appraiser Variation(AV, Reproducibility)	0.004460997386456131	
GRR	0.020415133031066547	
Part Variation(PV)	0.033113397777777775	
Total Variation(TV)	0.03890083249836027	
Precision/Tolerance Ratio	24.498	

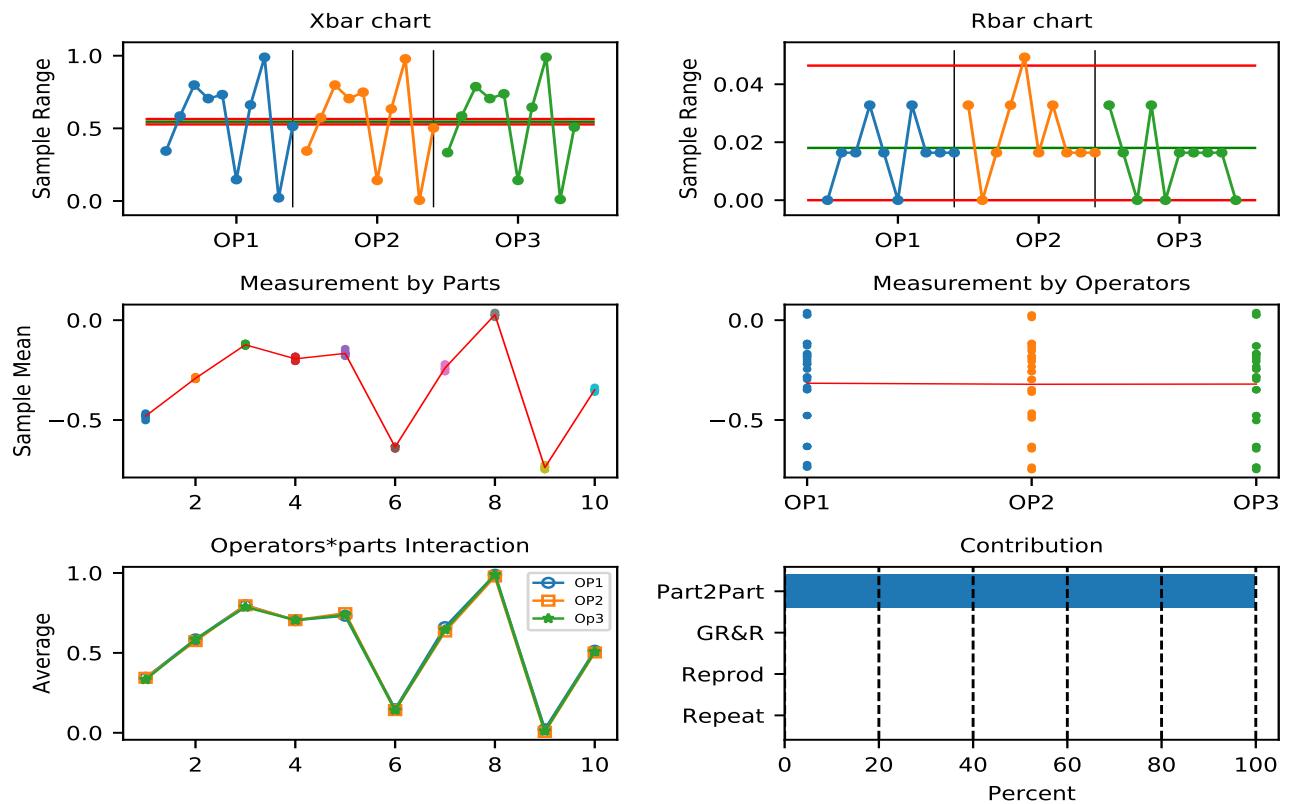
2.108 tilt_x



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.4	
Equipment Variation(EV, Repeatability)	0.008389360000000007	
Appraiser Variation(AV, Reproducibility)	0.0022225241669693086	
GRR	0.00867876574648508	
Part Variation(PV)	0.4771782888888888	
Total Variation(TV)	0.4772572056677722	
Precision/Tolerance Ratio	8.679	

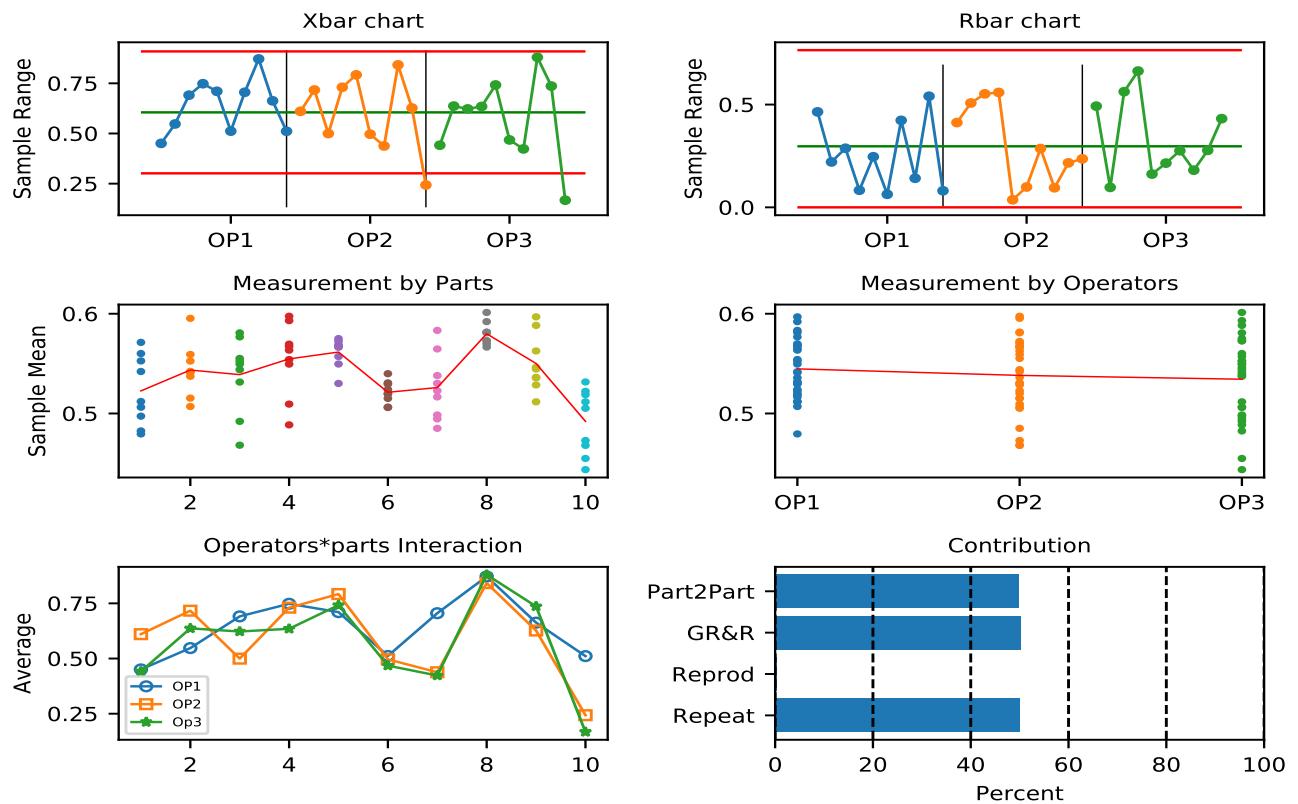
2.109 tilt_y



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.4	
Equipment Variation(EV, Repeatability)	0.008385421333333332	
Appraiser Variation(AV, Reproducibility)	0.0022209020823428503	
GRR	0.008674543042539853	
Part Variation(PV)	0.24085776	
Total Variation(TV)	0.24101391712765152	
Precision/Tolerance Ratio	8.675	

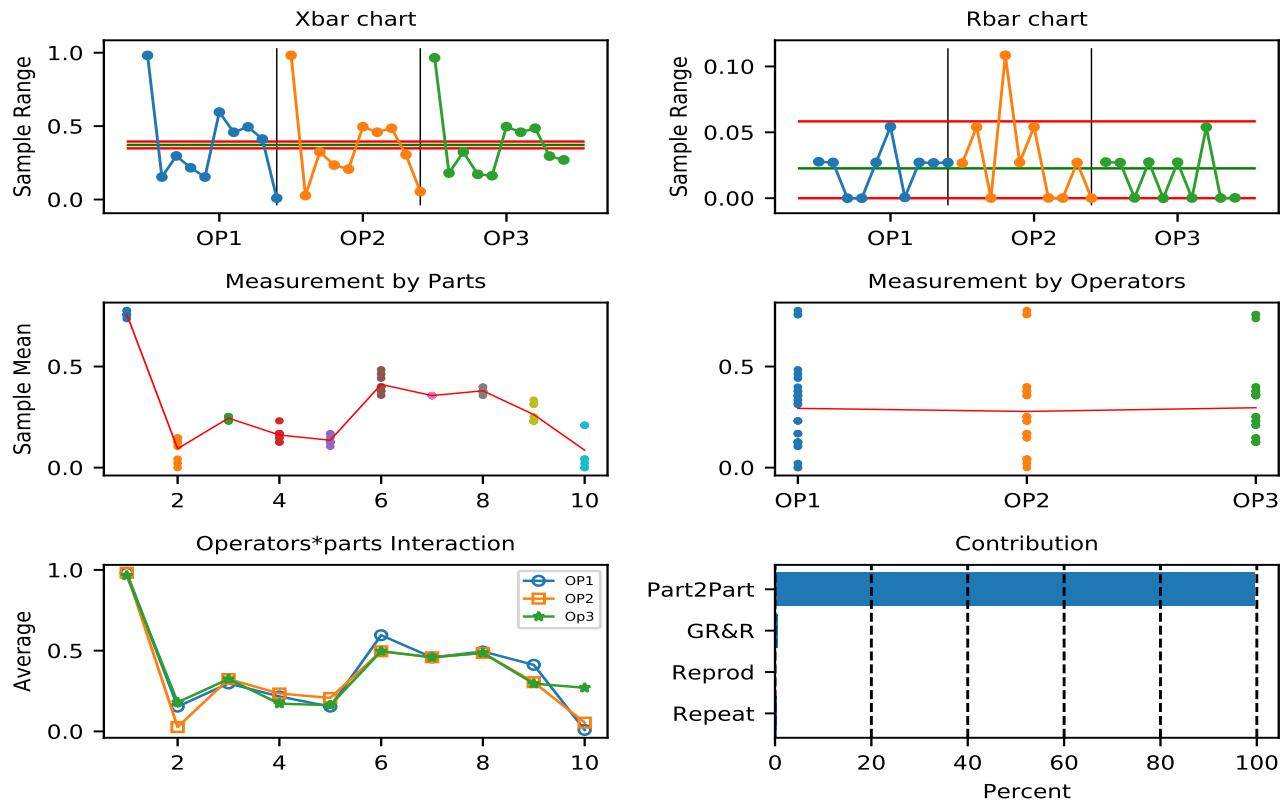
2.110 SFR_60IH_BR_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.32	
Equipment Variation(EV, Repeatability)	0.027651409333333335	
Appraiser Variation(AV, Reproducibility)	0.0019894595066253695	
GRR	0.027722885622677447	
Part Variation(PV)	0.027621879999999994	
Total Variation(TV)	0.03913472424819748	
Precision/Tolerance Ratio	24.461	

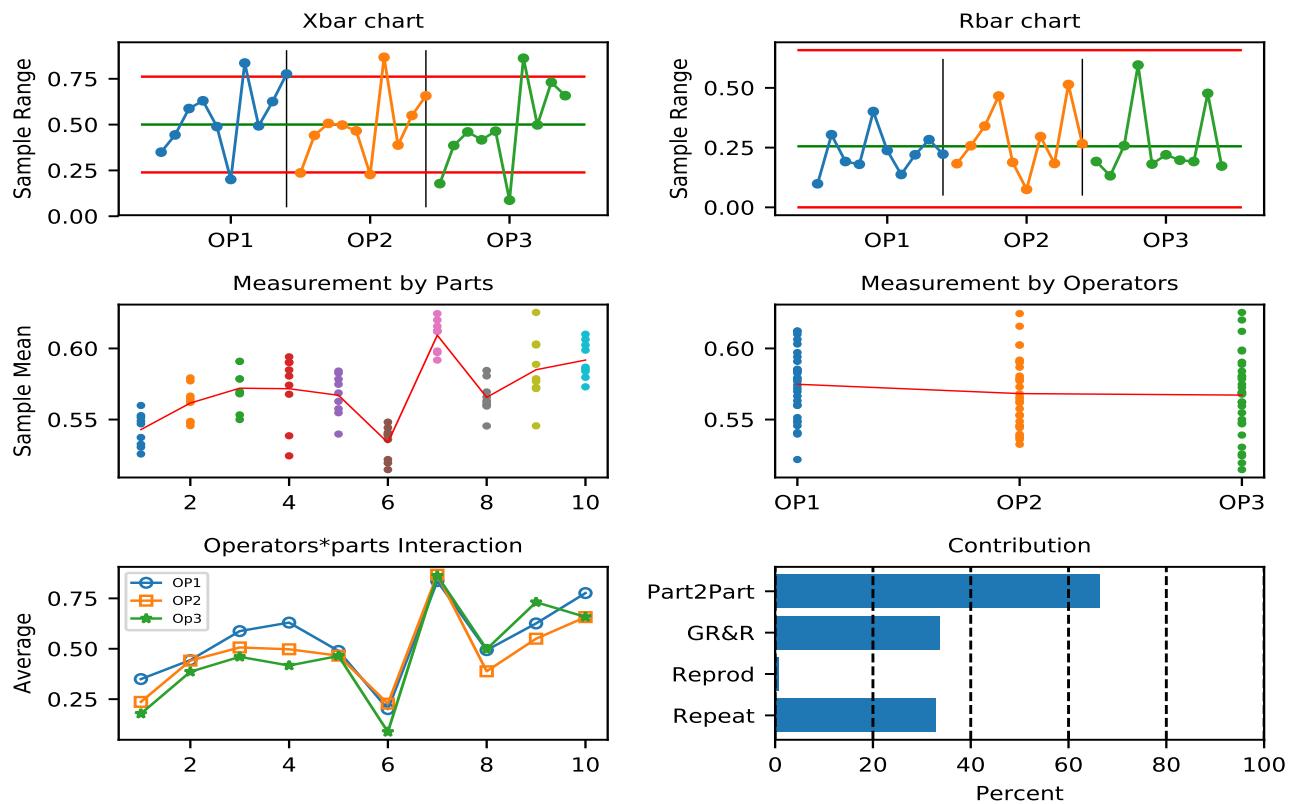
2.111 upper_horiz_theta



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.32	
Equipment Variation(EV, Repeatability)	0.010400049333333331	
Appraiser Variation(AV, Reproducibility)	0.00936651422256485	
GRR	0.013996164289450046	
Part Variation(PV)	0.211680357777777777	
Total Variation(TV)	0.21214256169789522	
Precision/Tolerance Ratio	12.35	

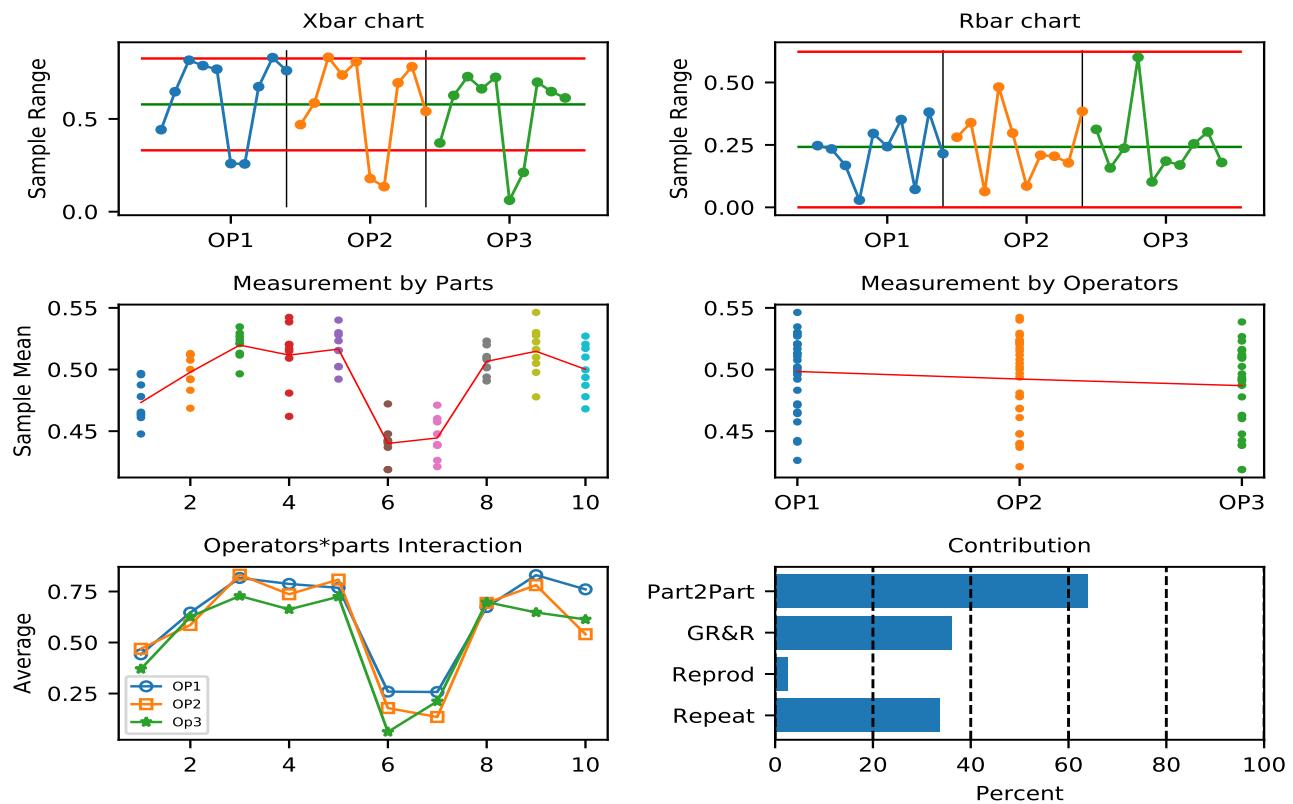
2.112 SFR_30IH_TR_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.27	
Equipment Variation(EV, Repeatability)	0.016678284000000005	
Appraiser Variation(AV, Reproducibility)	0.0025748986593825724	
GRR	0.016875878059844657	
Part Variation(PV)	0.02374880444444446	
Total Variation(TV)	0.029134189071110445	
Precision/Tolerance Ratio	13.871	

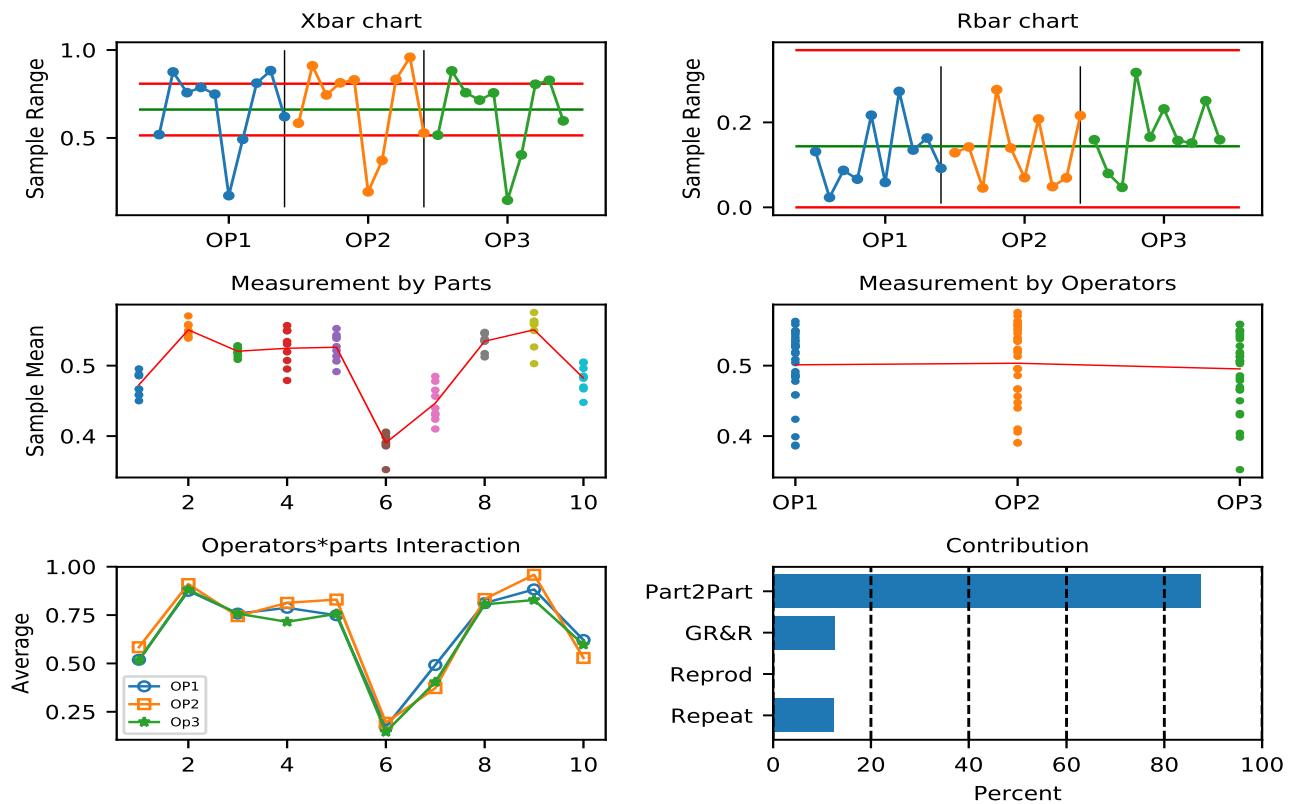
2.113 SFR_80IH_BL_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.27	
Equipment Variation(EV, Repeatability)	0.018226179999999998	
Appraiser Variation(AV, Reproducibility)	0.004980053123071256	
GRR	0.01889429984151336	
Part Variation(PV)	0.025091097777777766	
Total Variation(TV)	0.0314095169366709	
Precision/Tolerance Ratio	15.53	

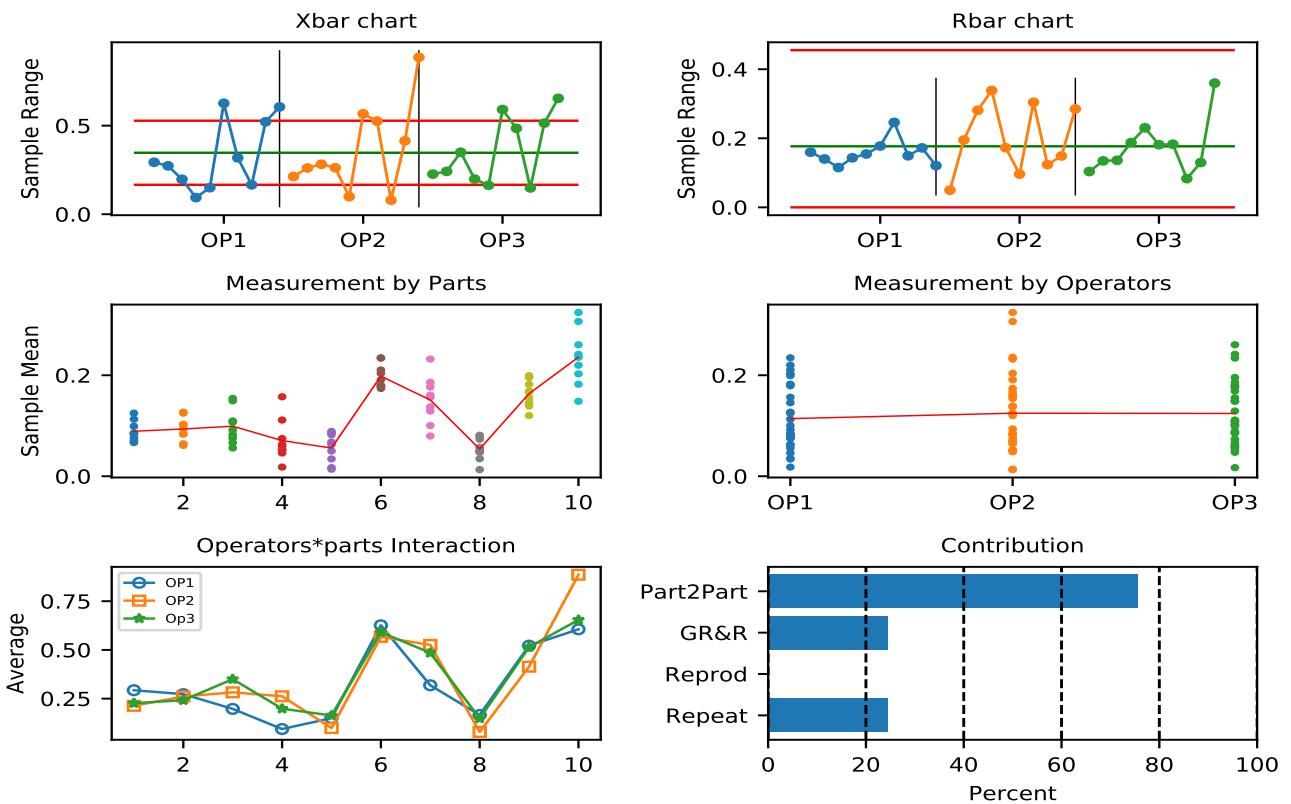
2.114 SFR_80IH_BL_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.27	
Equipment Variation(EV, Repeatability)	0.018943017333333336	
Appraiser Variation(AV, Reproducibility)	0.002420557366570014	
GRR	0.019097041751429032	
Part Variation(PV)	0.050489804444444446	
Total Variation(TV)	0.0539807128194327	
Precision/Tolerance Ratio	15.696	

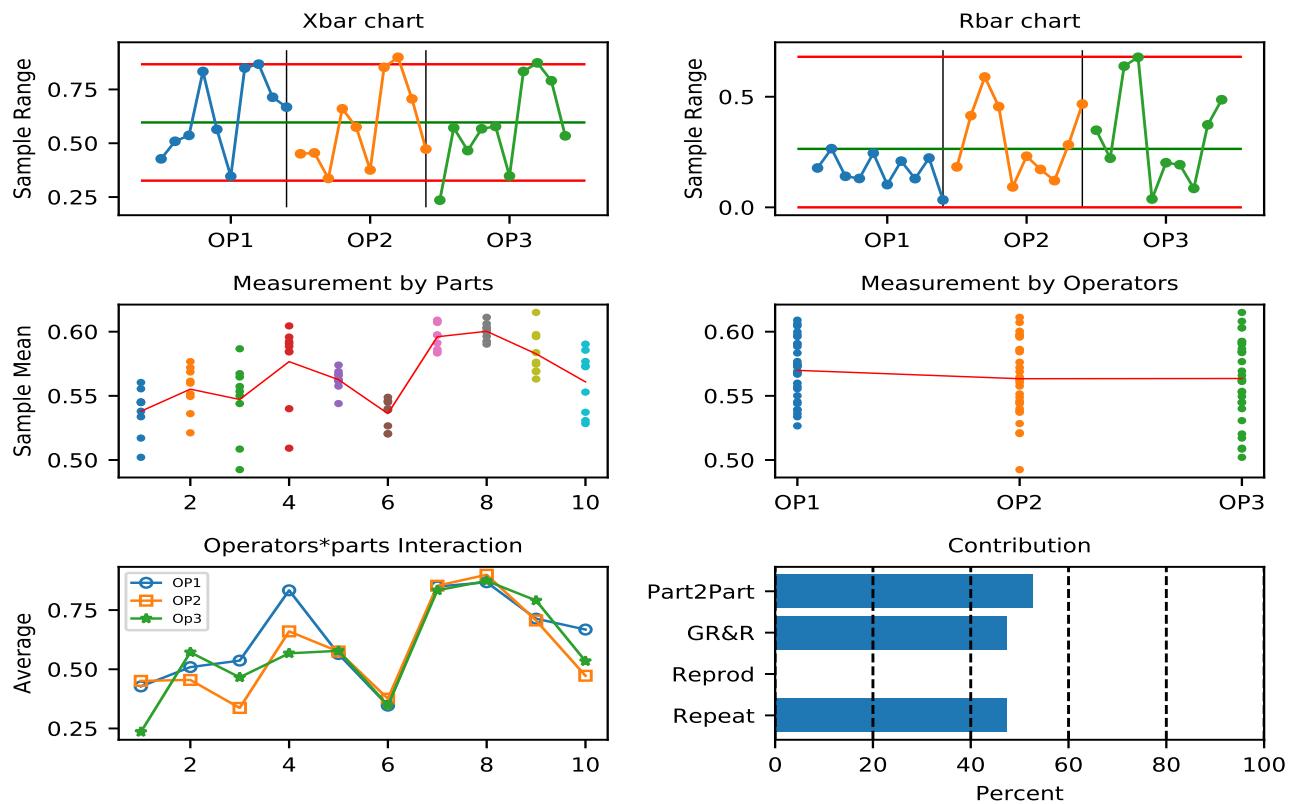
2.115 corner_balance_IH80_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.27	
Equipment Variation(EV, Repeatability)	0.032517632	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.032517632	
Part Variation(PV)	0.05720127111111125	
Total Variation(TV)	0.06579803802252968	
Precision/Tolerance Ratio	26.727	

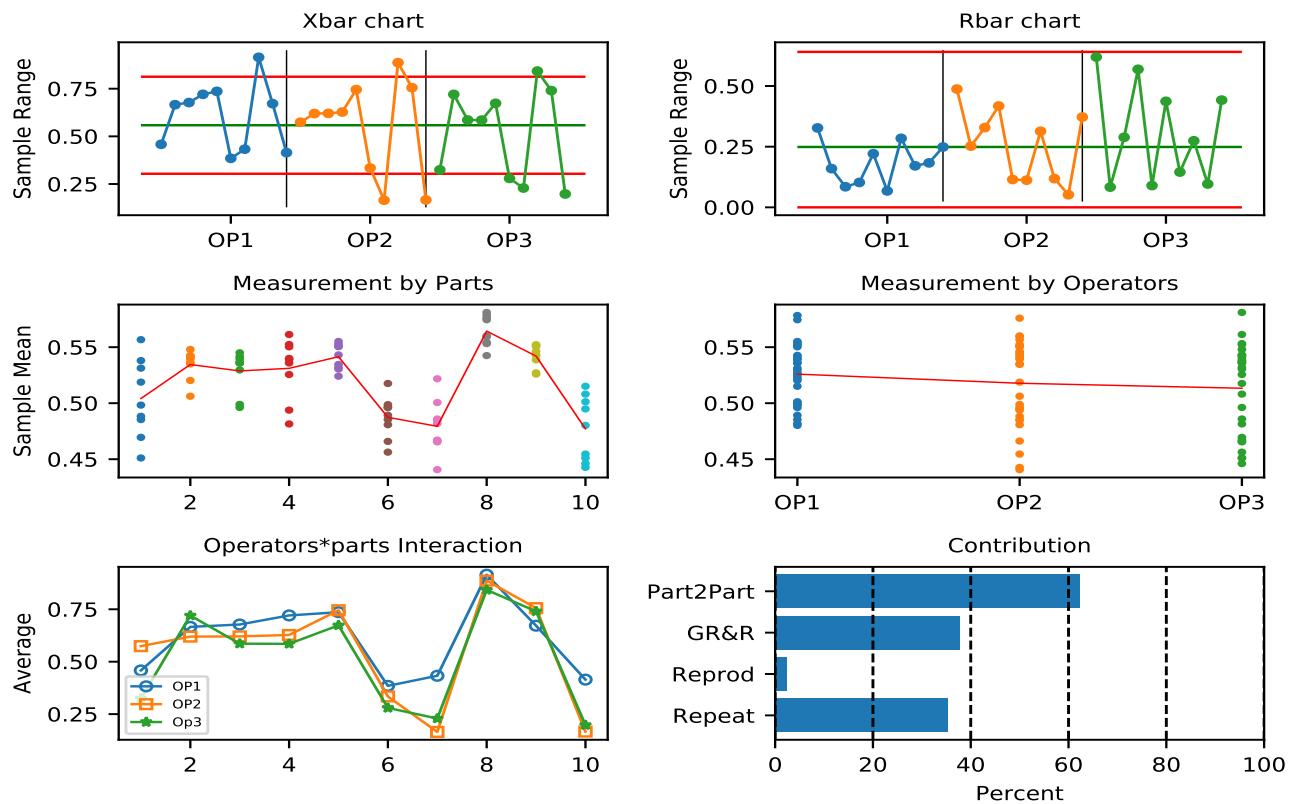
2.116 SFR_30IH_TR_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.27	
Equipment Variation(EV, Repeatability)	0.019128134666666664	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.019128134666666664	
Part Variation(PV)	0.0201728511111111	
Total Variation(TV)	0.027799810391029495	
Precision/Tolerance Ratio	15.722	

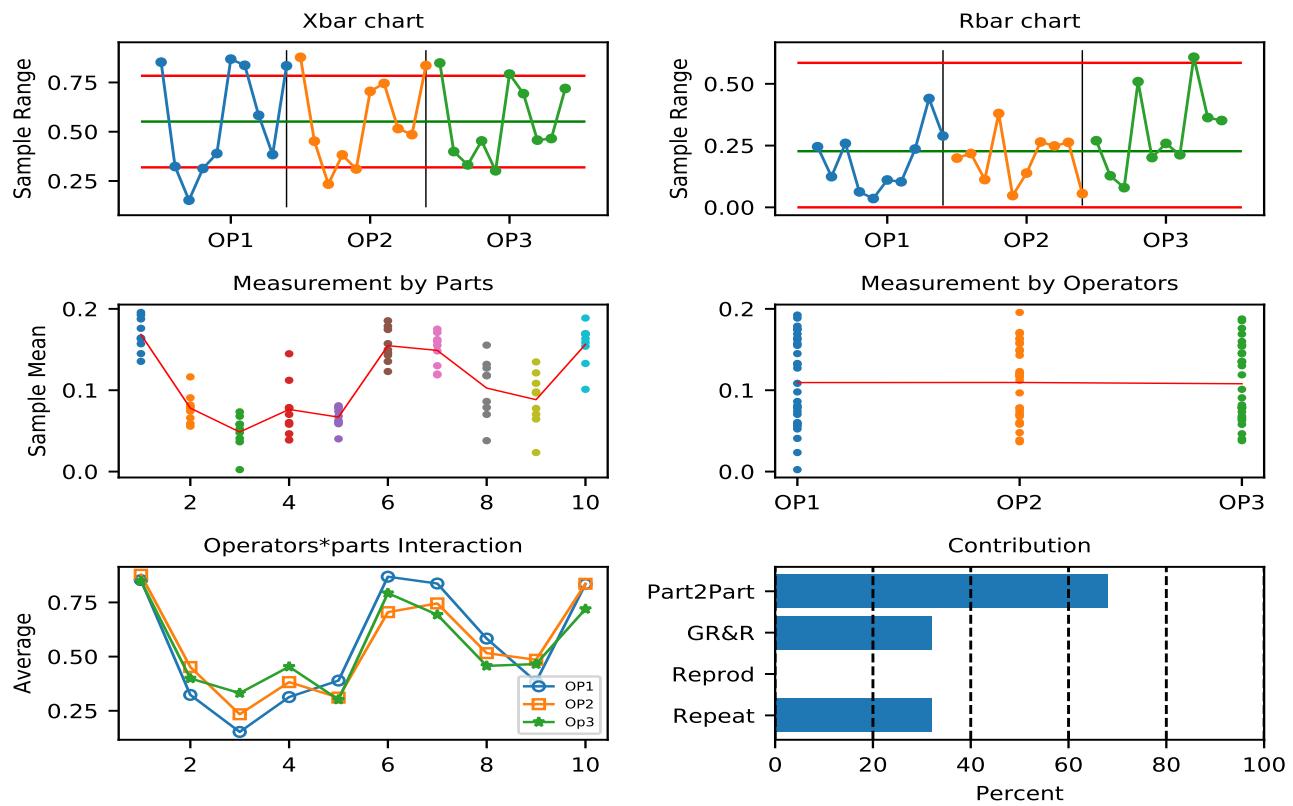
2.117 SFR_80IH_BR_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.27	
Equipment Variation(EV, Repeatability)	0.020622858666666664	
Appraiser Variation(AV, Reproducibility)	0.005418239395137897	
GRR	0.02132274883143195	
Part Variation(PV)	0.02744011111111155	
Total Variation(TV)	0.03475081747985878	
Precision/Tolerance Ratio	17.526	

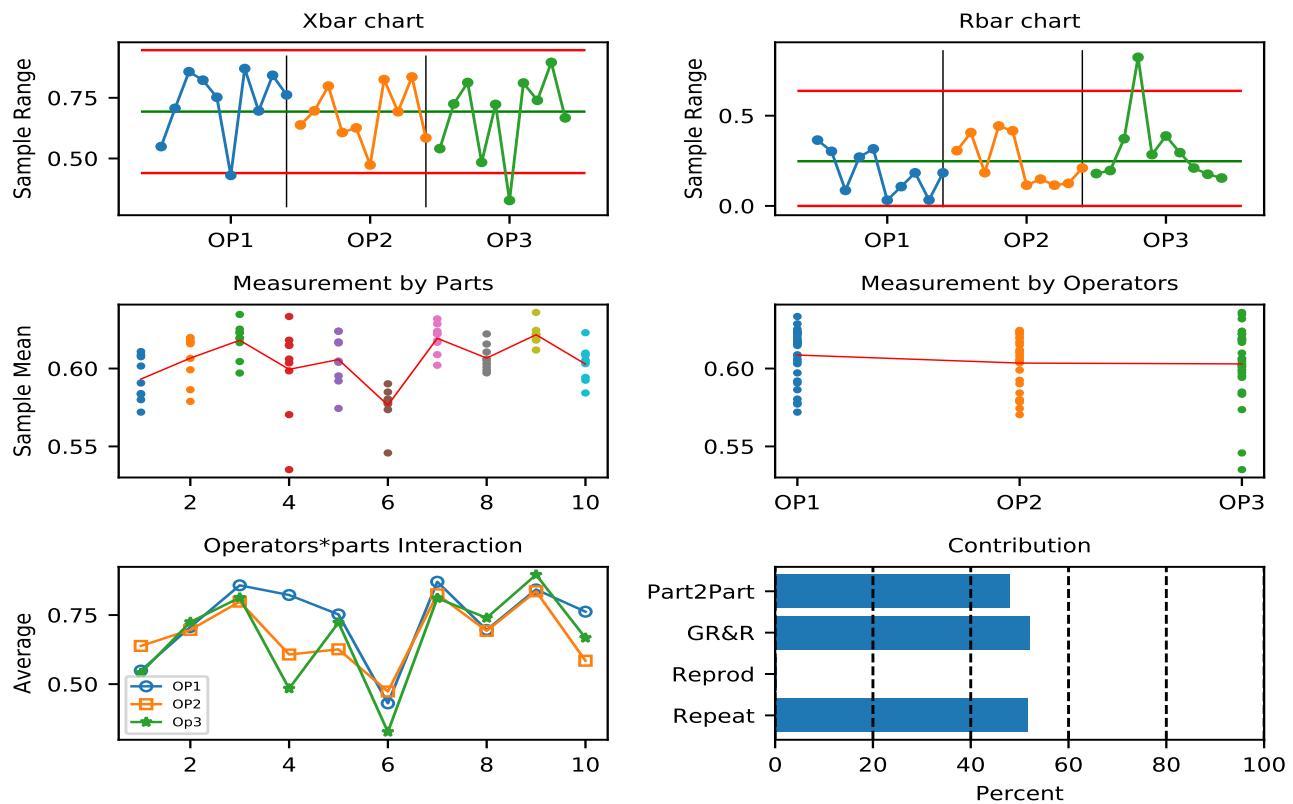
2.118 corner_balance_IH80_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.27	
Equipment Variation(EV, Repeatability)	0.025928242666666663	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.025928242666666663	
Part Variation(PV)	0.037713548888888886	
Total Variation(TV)	0.045766642192498305	
Precision/Tolerance Ratio	21.311	

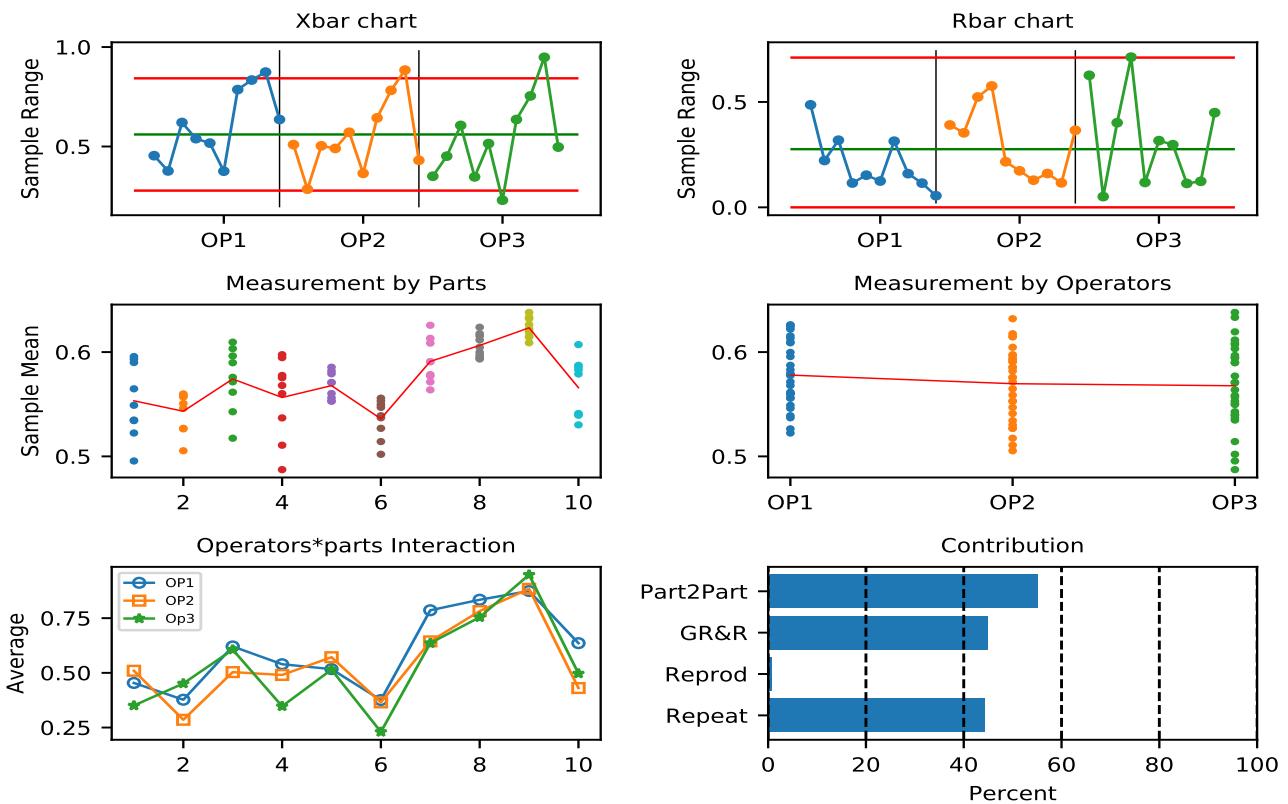
2.119 SFR_Center_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.27	
Equipment Variation(EV, Repeatability)	0.014758183999999995	
Appraiser Variation(AV, Reproducibility)	0.0012604281654368212	
GRR	0.014811909874762346	
Part Variation(PV)	0.014219919999999971	
Total Variation(TV)	0.020532871181217726	
Precision/Tolerance Ratio	12.174	

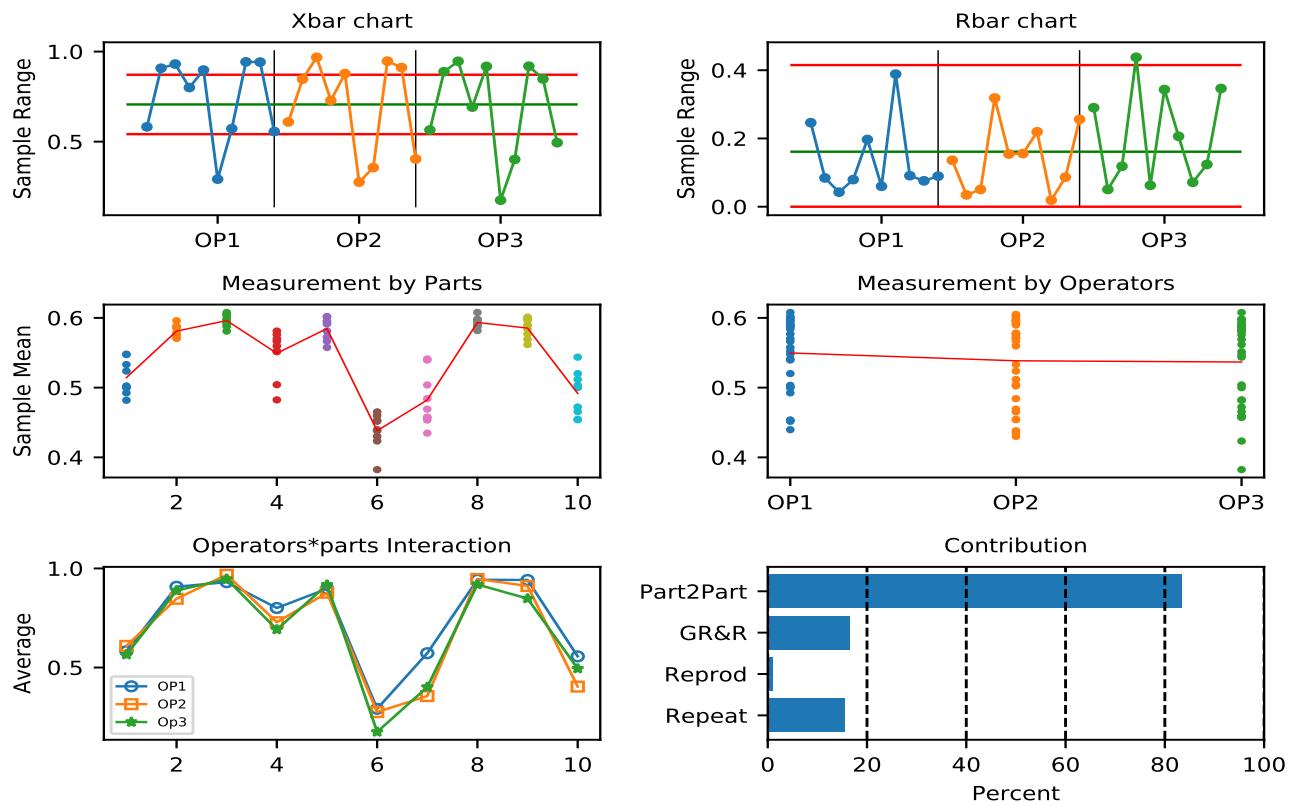
2.120 SFR_30IH_BR_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.32	
Equipment Variation(EV, Repeatability)	0.024567433333333333	
Appraiser Variation(AV, Reproducibility)	0.0029121492649700712	
GRR	0.02473942994349796	
Part Variation(PV)	0.027433120000000016	
Total Variation(TV)	0.03694070203533826	
Precision/Tolerance Ratio	21.829	

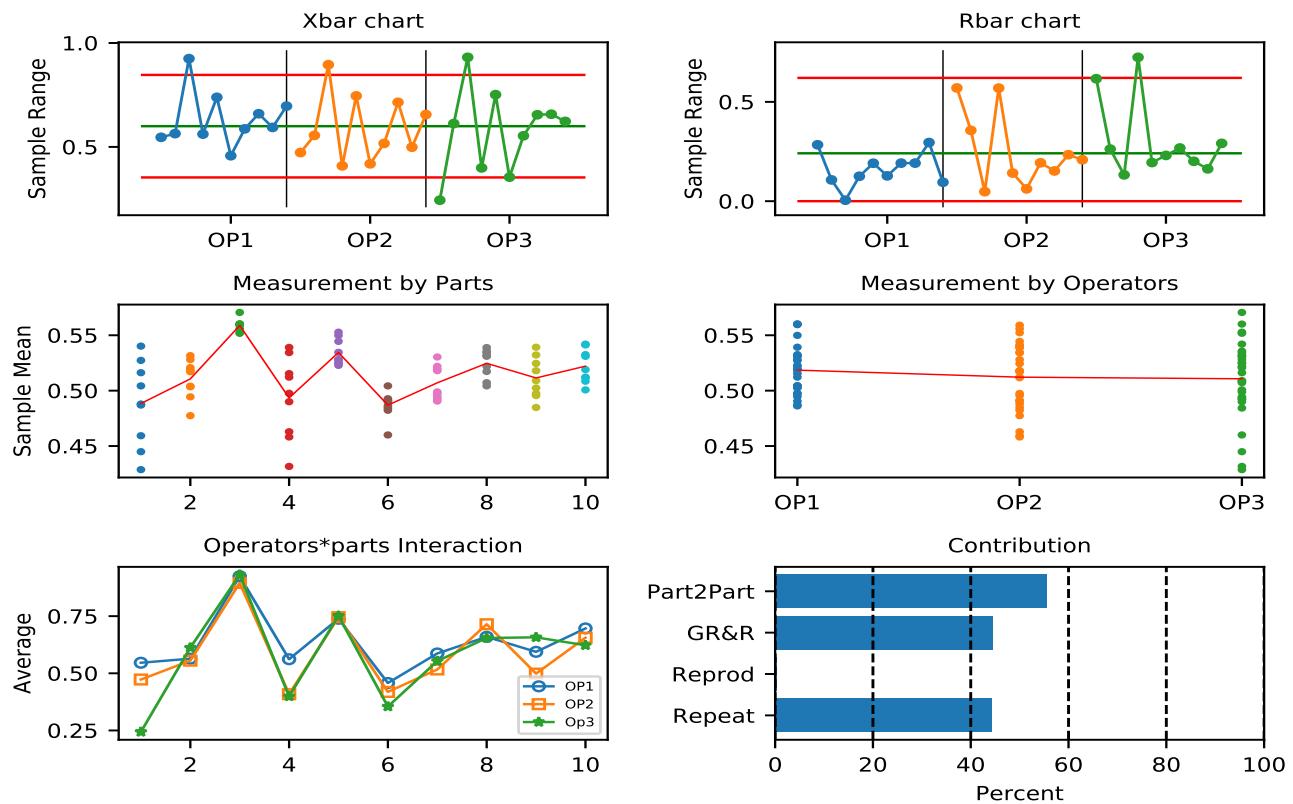
2.121 SFR_60IH_BL_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.32	
Equipment Variation(EV, Repeatability)	0.021469672000000006	
Appraiser Variation(AV, Reproducibility)	0.005554770414510447	
GRR	0.022176615840689147	
Part Variation(PV)	0.049703304444444395	
Total Variation(TV)	0.05442628742476039	
Precision/Tolerance Ratio	19.568	

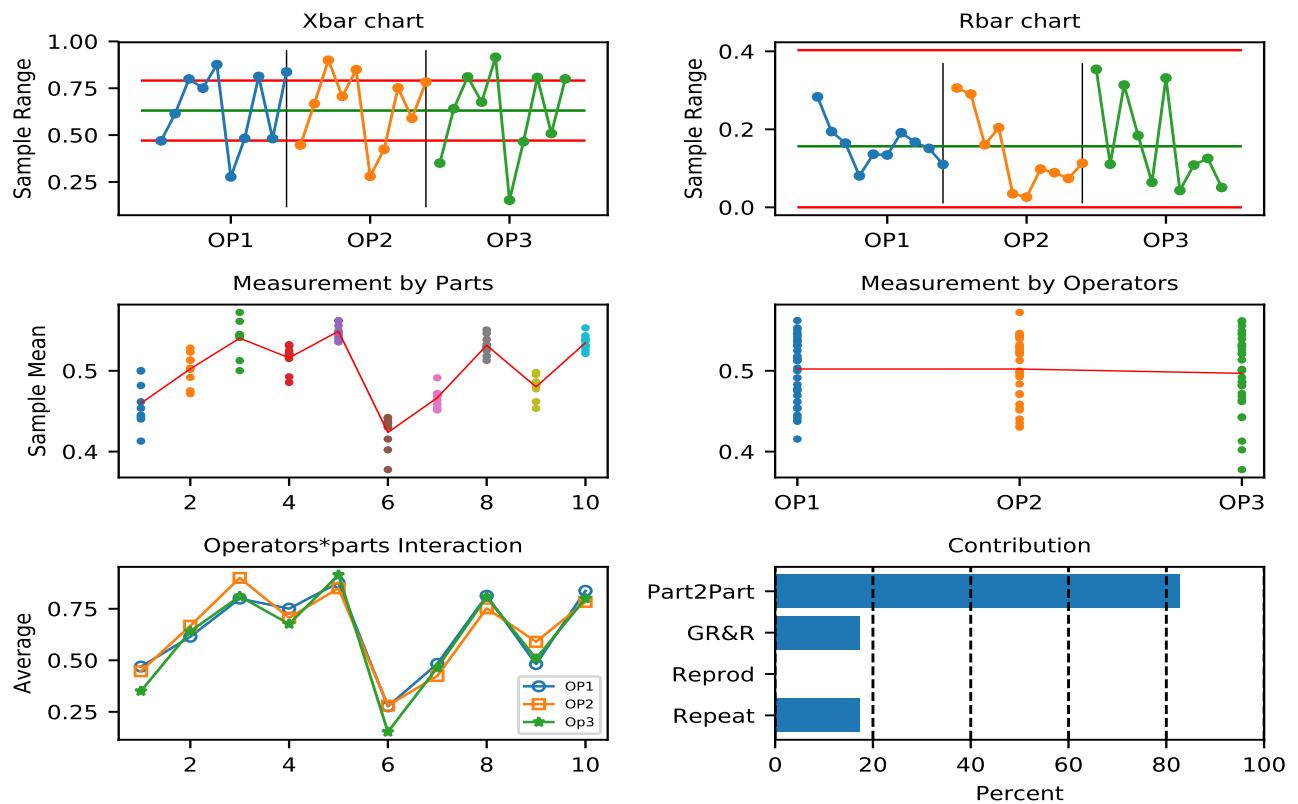
2.122 SFR_80IH_TR_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.4	
Equipment Variation(EV, Repeatability)	0.020211268	
Appraiser Variation(AV, Reproducibility)	0.0017287849915496114	
GRR	0.02028506967488234	
Part Variation(PV)	0.02263022666666667	
Total Variation(TV)	0.030390972519804996	
Precision/Tolerance Ratio	20.285	

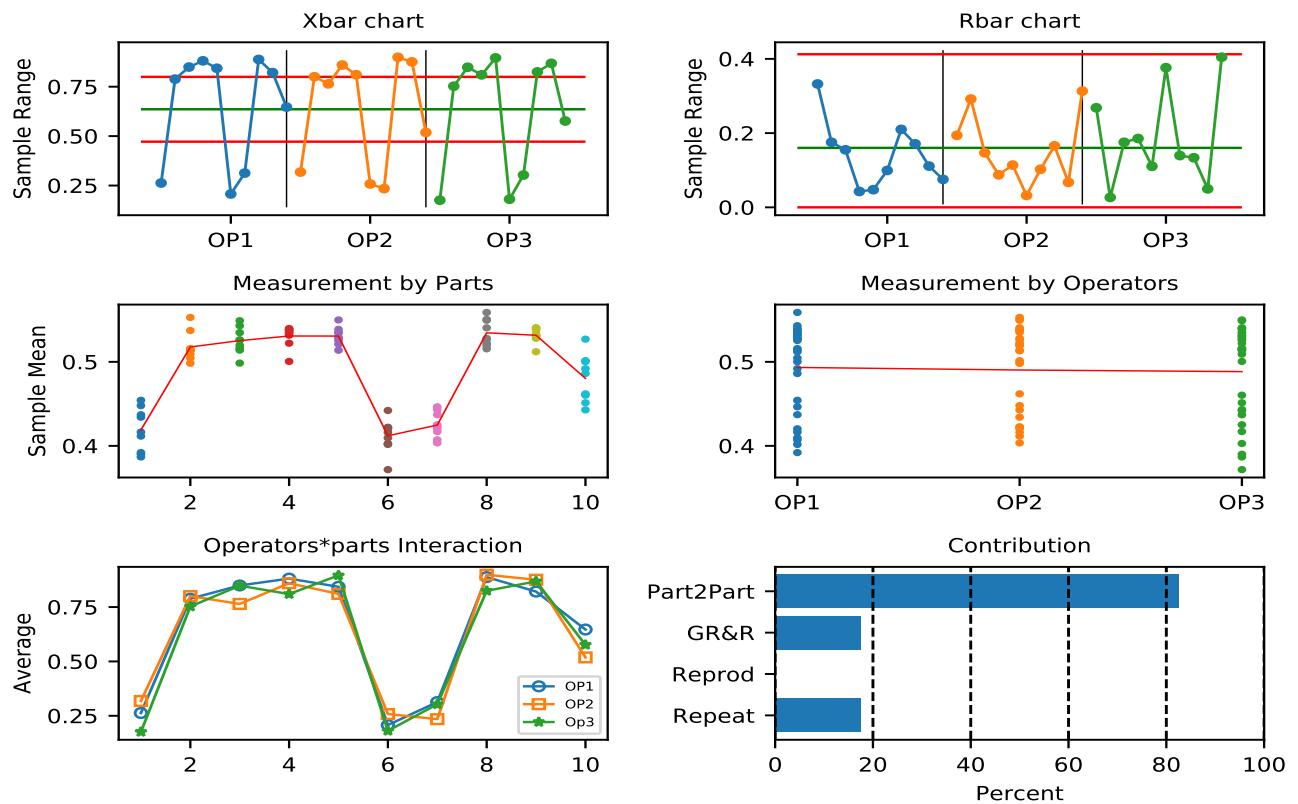
2.123 SFR_80IH_TL_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.4	
Equipment Variation(EV, Repeatability)	0.017983952000000008	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.017983952000000008	
Part Variation(PV)	0.039398406666666656	
Total Variation(TV)	0.043308855646511234	
Precision/Tolerance Ratio	17.984	

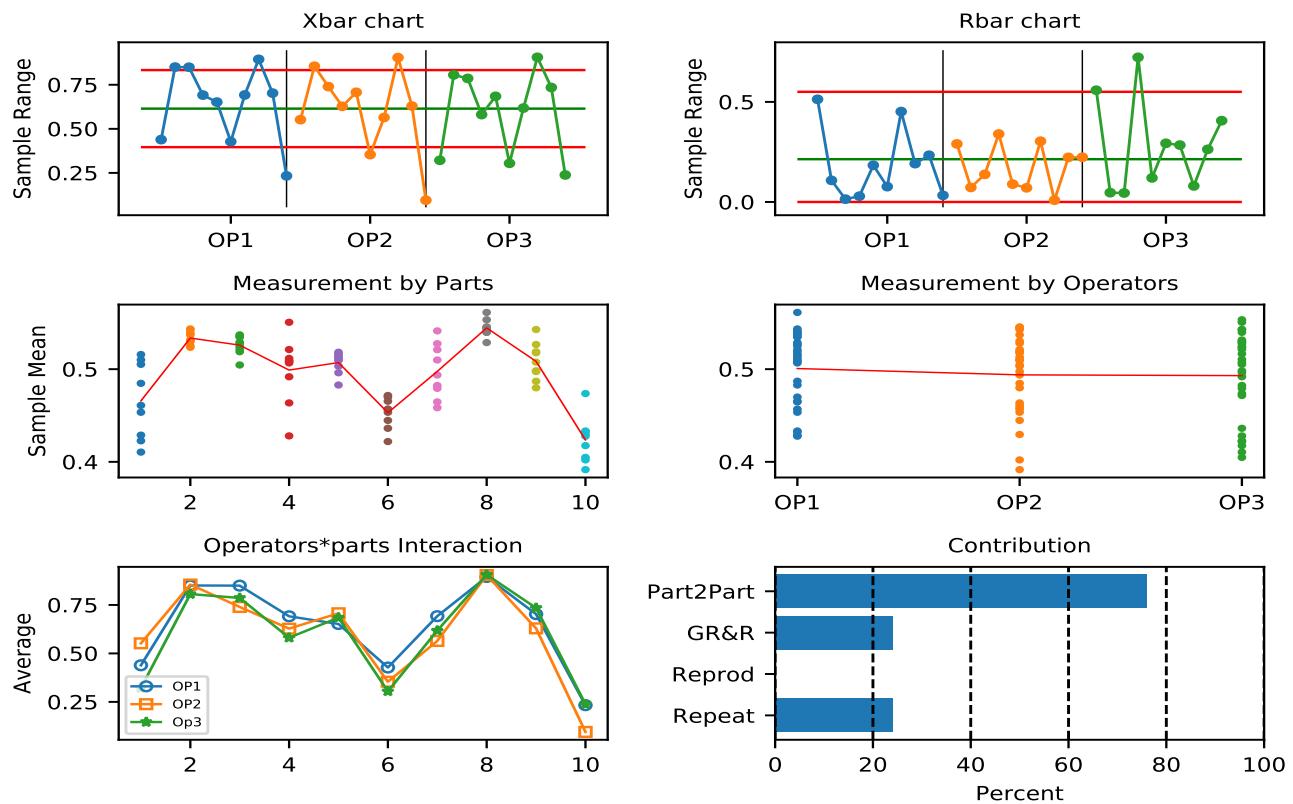
2.124 SFR_80IH_TL_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.5	
Equipment Variation(EV, Repeatability)	0.017706275999999996	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.017706275999999996	
Part Variation(PV)	0.038552482222222226	
Total Variation(TV)	0.04242412162064097	
Precision/Tolerance Ratio	21.248	

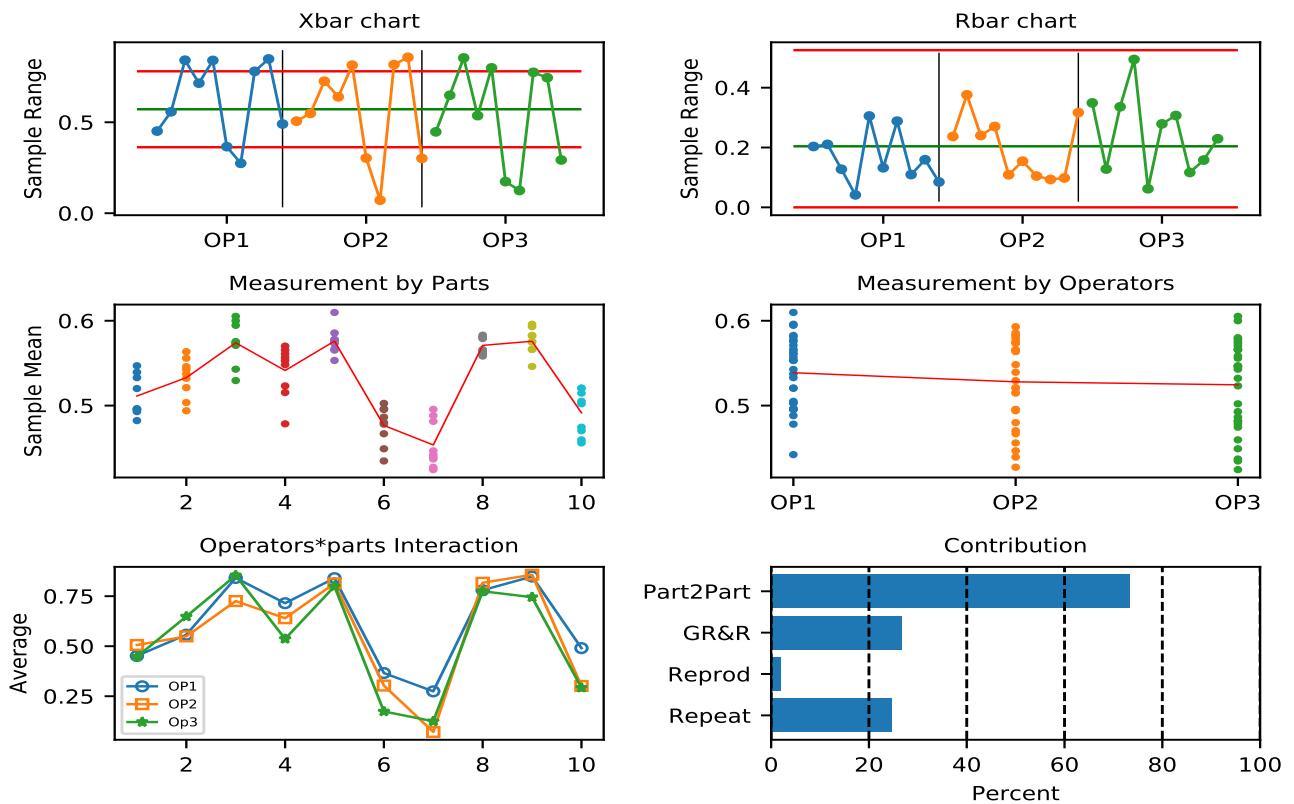
2.125 SFR_80IH_TR_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	inf	
lower limit(LSL)	-inf	
Equipment Variation(EV, Repeatability)	0.021416500000000005	
Appraiser Variation(AV, Reproducibility)	0.0008595341106523498	
GRR	0.02143374141715289	
Part Variation(PV)	0.03802115777777777	
Total Variation(TV)	0.043646462742128904	
Precision/Tolerance Ratio	0.0	

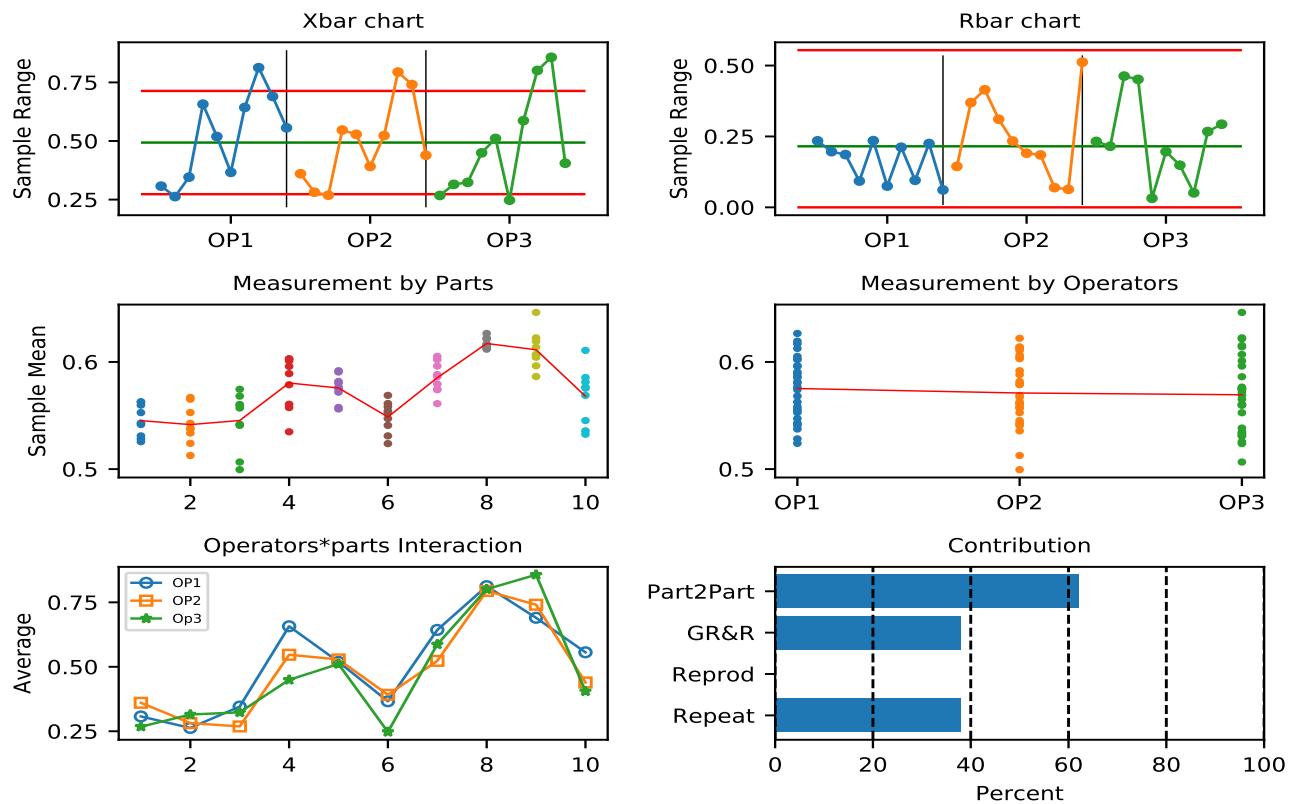
2.126 SFR_60IH_BL_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.27	
Equipment Variation(EV, Repeatability)	0.022340117333333322	
Appraiser Variation(AV, Reproducibility)	0.0062246991474317484	
GRR	0.02319111299491979	
Part Variation(PV)	0.03852102222222224	
Total Variation(TV)	0.044963283632182355	
Precision/Tolerance Ratio	19.061	

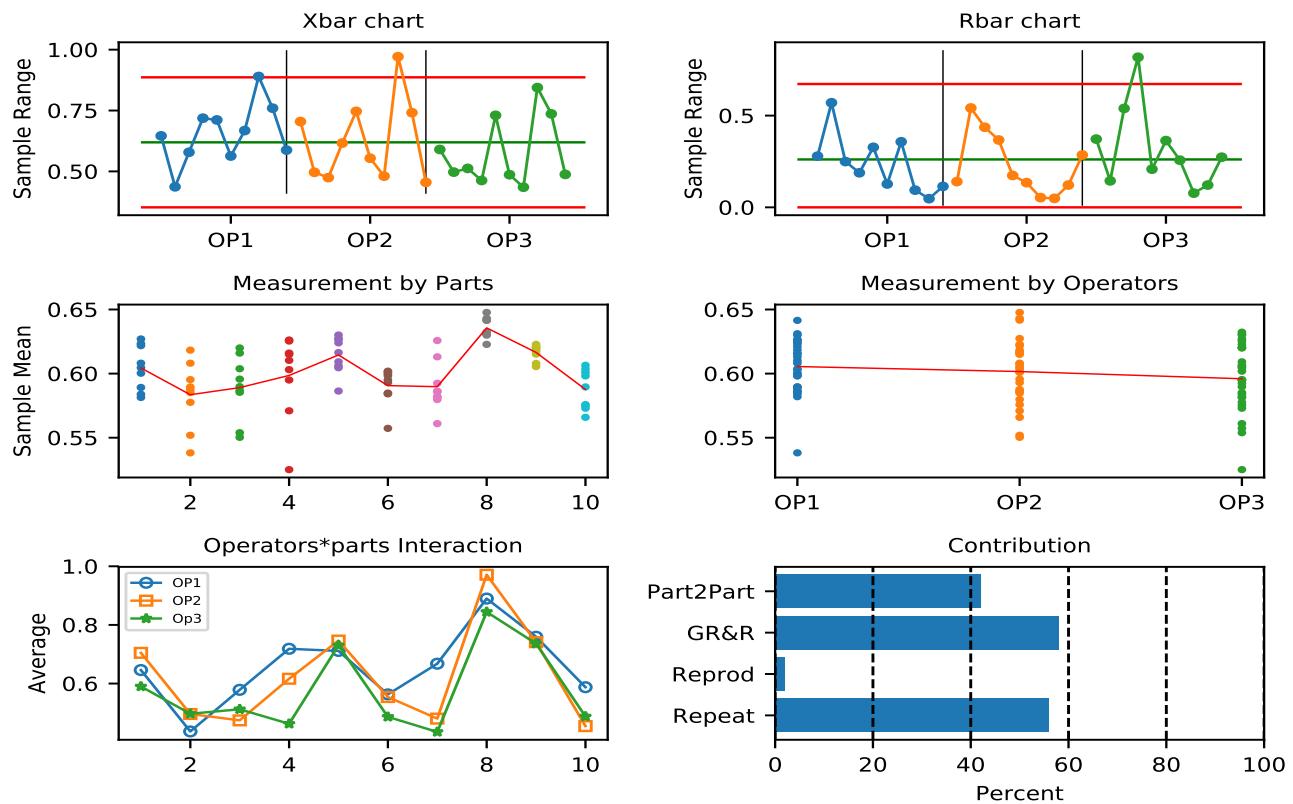
2.127 SFR_30IH_BR_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.27	
Equipment Variation(EV, Repeatability)	0.018655494666666664	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.018655494666666664	
Part Variation(PV)	0.0238222111111112	
Total Variation(TV)	0.03025764735534431	
Precision/Tolerance Ratio	15.333	

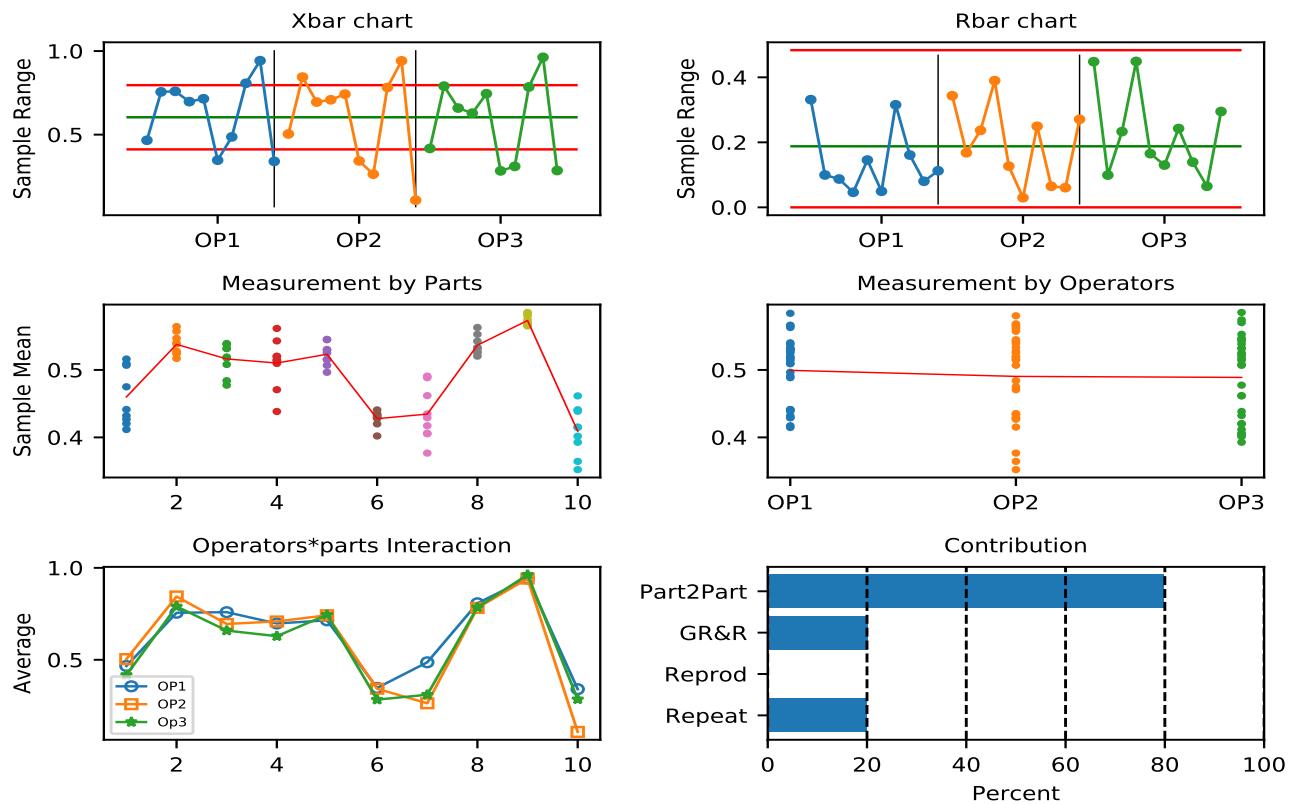
2.128 SFR_Center_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	360.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.018907569333333325	
Appraiser Variation(AV, Reproducibility)	0.003594124322507543	
GRR	0.019246140073803035	
Part Variation(PV)	0.016397651111111133	
Total Variation(TV)	0.025284320629634708	
Precision/Tolerance Ratio	0.032	

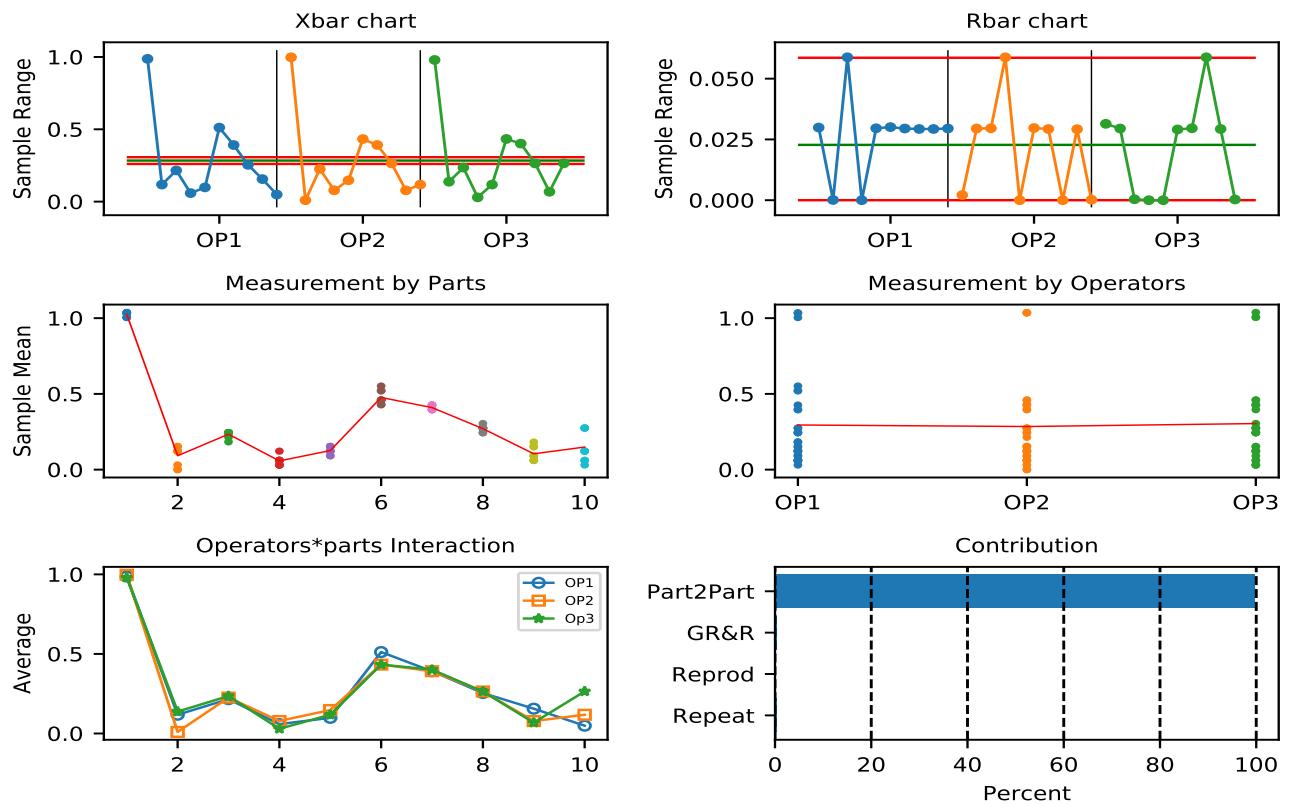
2.129 SFR_80IH_BR_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	360.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.025849469333333323	
Appraiser Variation(AV, Reproducibility)	0.0028063829679872677	
GRR	0.026001362467723665	
Part Variation(PV)	0.05164333777777826	
Total Variation(TV)	0.057819591722941134	
Precision/Tolerance Ratio	0.043	

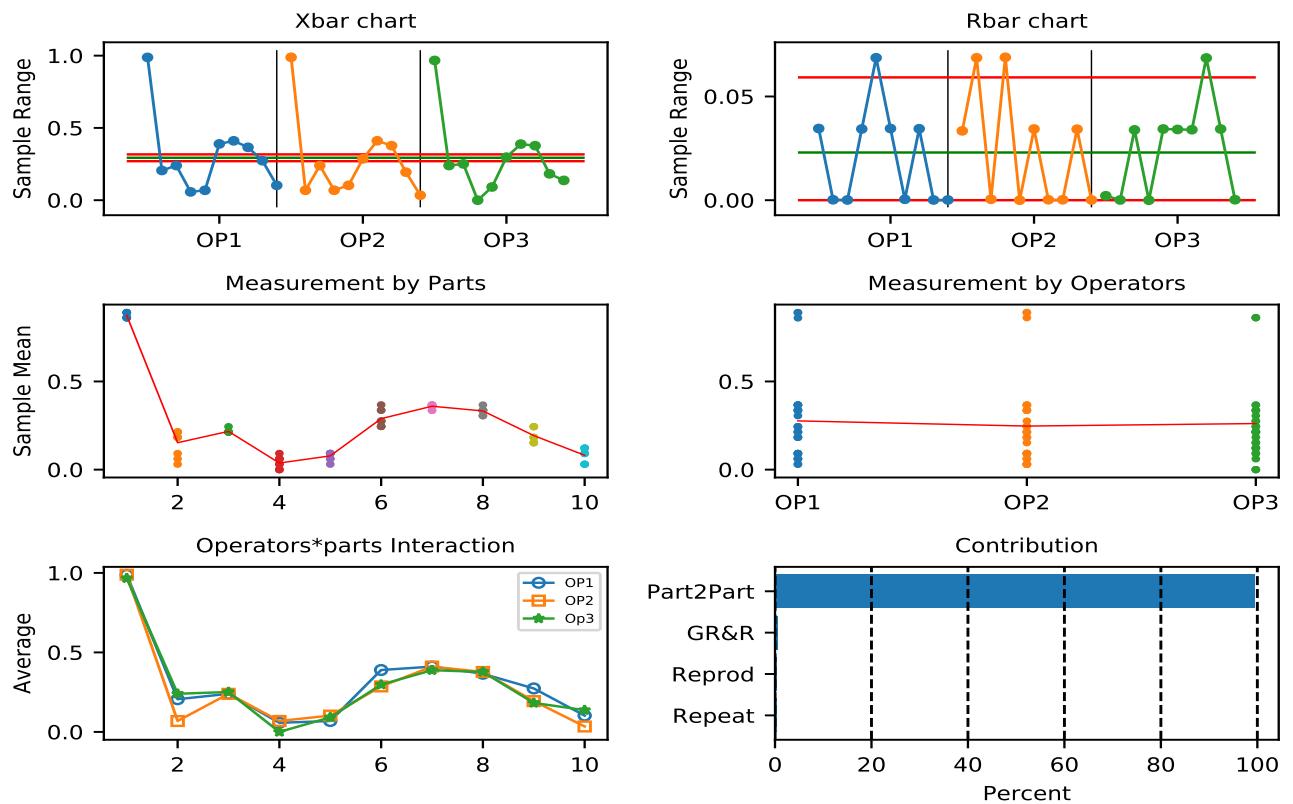
2.130 left_vert_theta



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	360.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.013950757333333327	
Appraiser Variation(AV, Reproducibility)	0.00987553322785433	
GRR	0.017092389730754696	
Part Variation(PV)	0.30443842	
Total Variation(TV)	0.30491786001939014	
Precision/Tolerance Ratio	0.028	

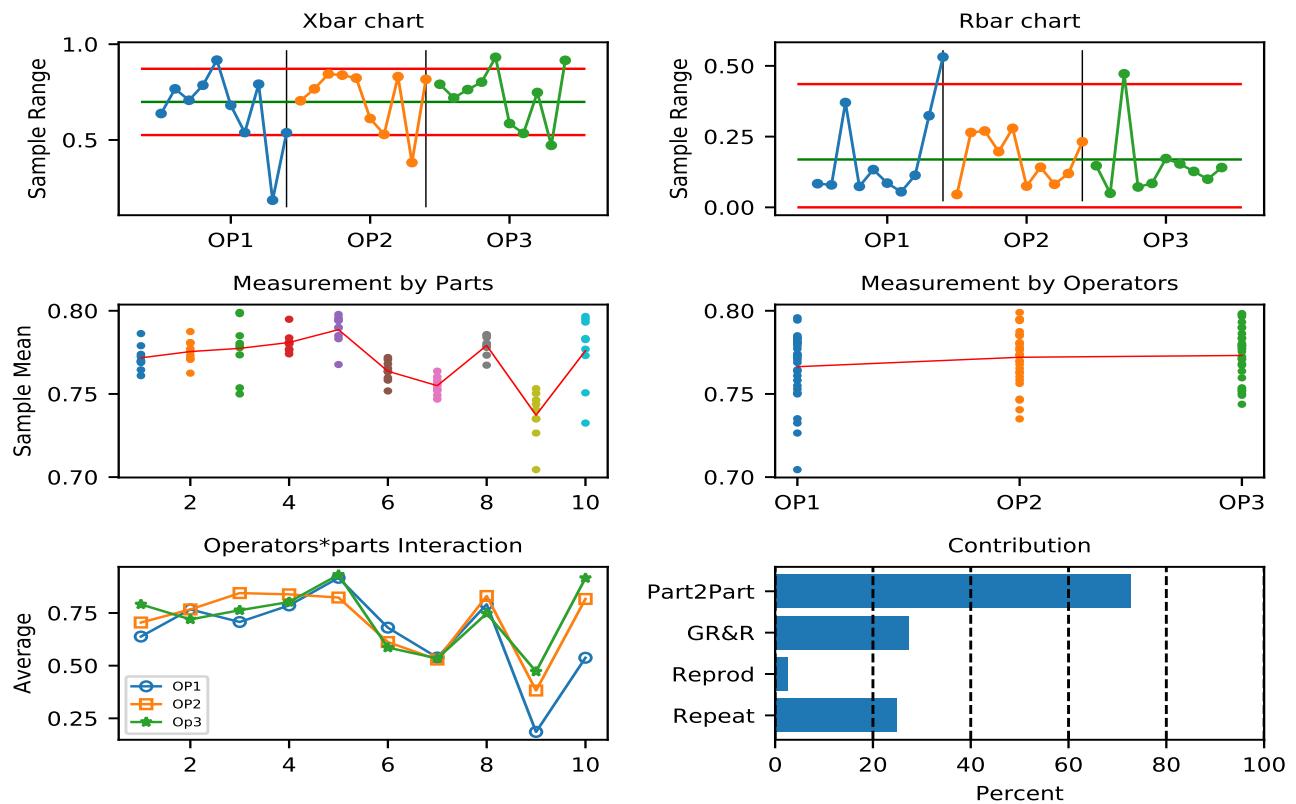
2.131 right_vert_theta



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	360.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.012107461333333333	
Appraiser Variation(AV, Reproducibility)	0.015240591104224164	
GRR	0.019464486562566156	
Part Variation(PV)	0.263299226666666666	
Total Variation(TV)	0.2640177058464243	
Precision/Tolerance Ratio	0.032	

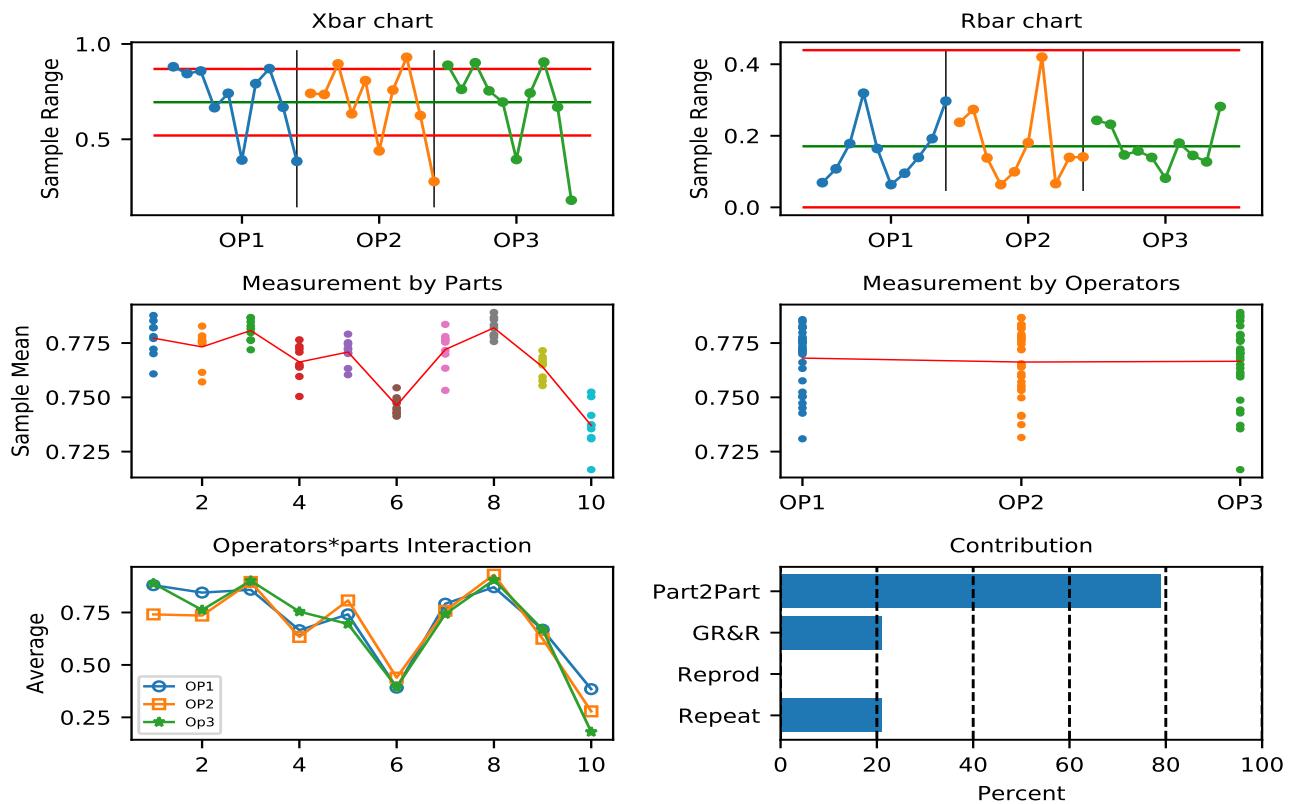
2.132 SFR_60IH_TL_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	0.45	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.009442953333333332	
Appraiser Variation(AV, Reproducibility)	0.0030834129877887143	
GRR	0.009933619849217867	
Part Variation(PV)	0.016173935555555508	
Total Variation(TV)	0.018980858638745452	
Precision/Tolerance Ratio	13.245	

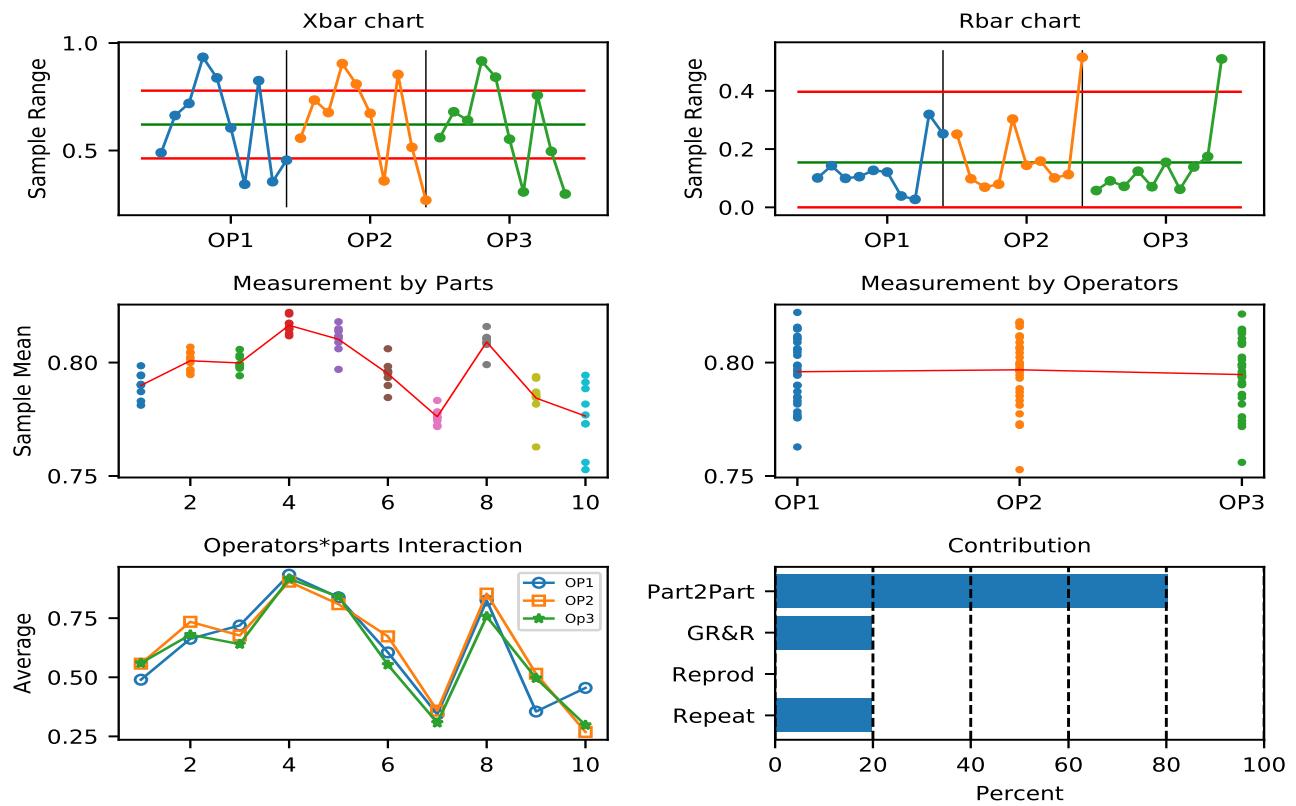
2.133 SFR_60IH_TR_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	0.45	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.007298349333333334	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.007298349333333334	
Part Variation(PV)	0.014139522222222225	
Total Variation(TV)	0.015912007782303377	
Precision/Tolerance Ratio	9.731	

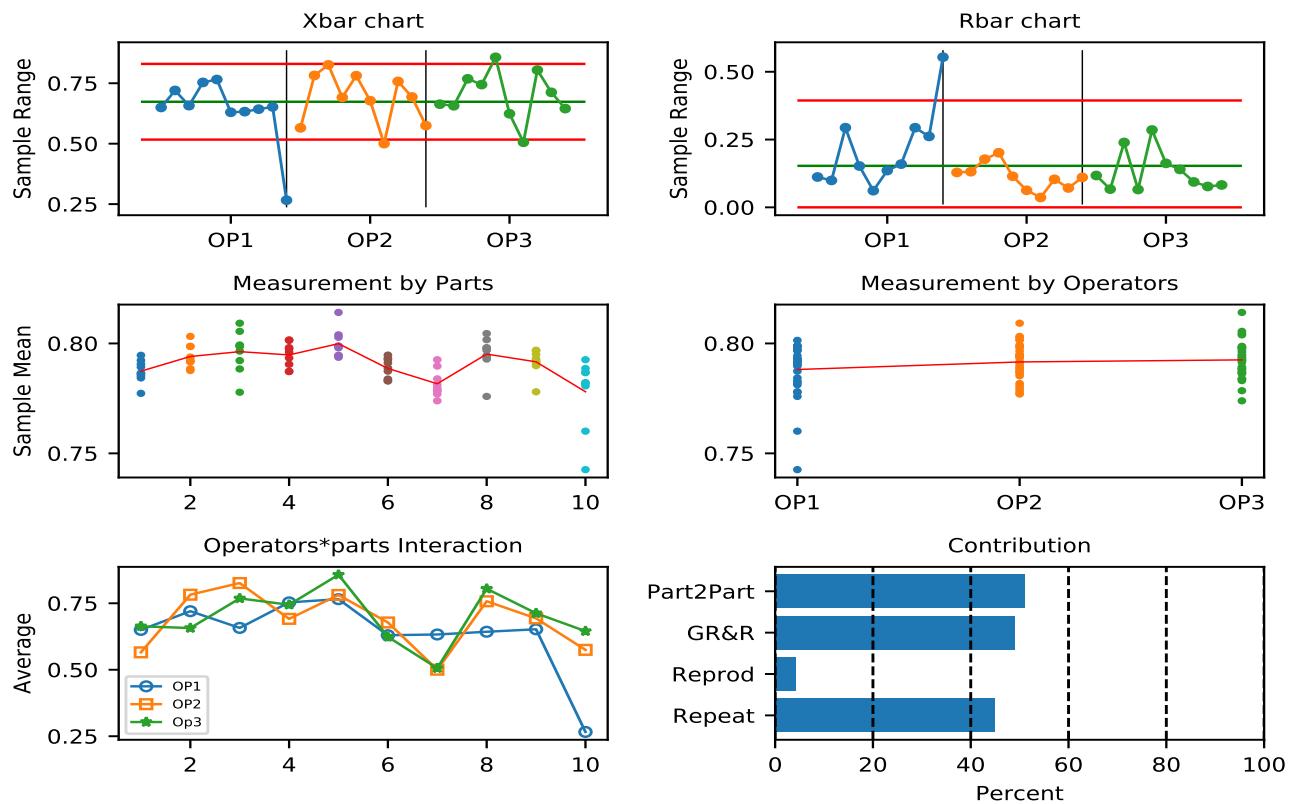
2.134 SFR_30IH_TL_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.6	
Equipment Variation(EV, Repeatability)	0.0063077746666666675	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.0063077746666666675	
Part Variation(PV)	0.012681875555555545	
Total Variation(TV)	0.01416396797694908	
Precision/Tolerance Ratio	9.462	

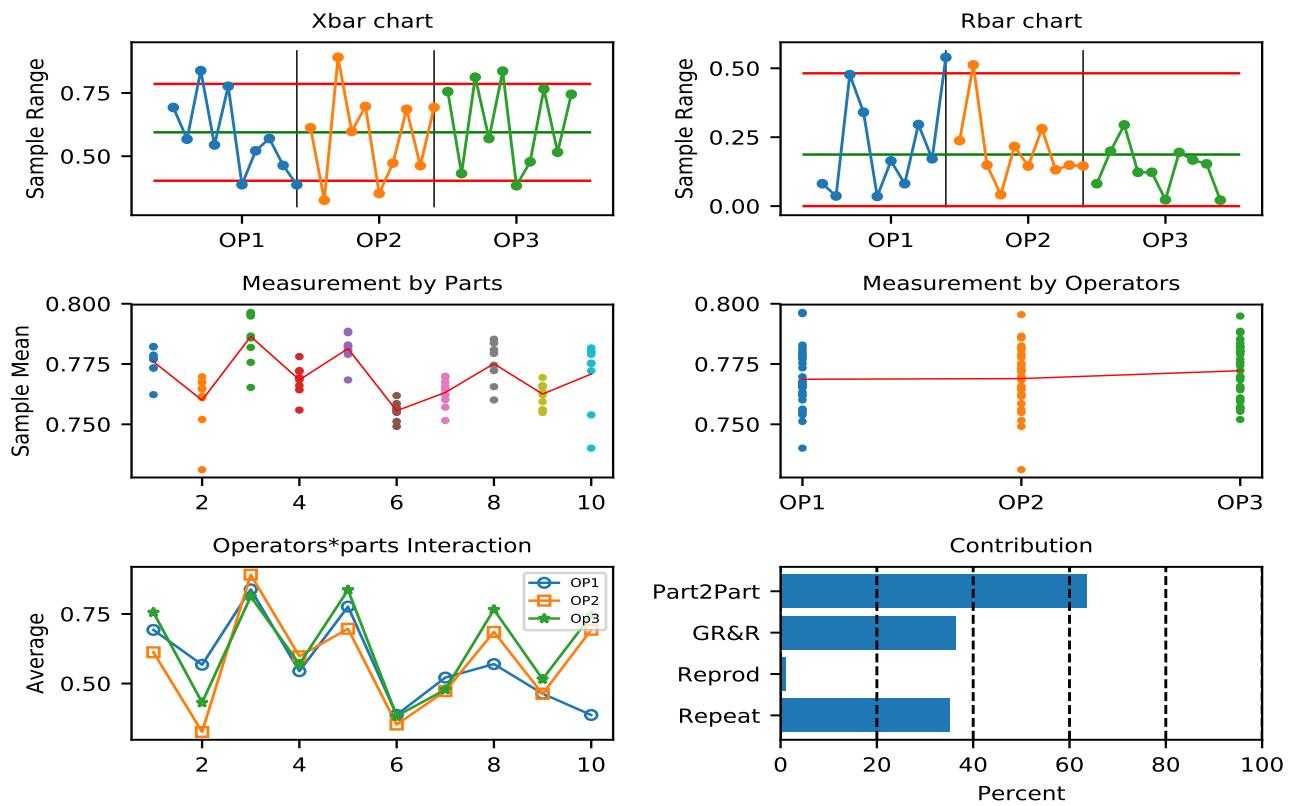
2.135 SFR_30IH_TL_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.6	
Equipment Variation(EV, Repeatability)	0.006465321333333332	
Appraiser Variation(AV, Reproducibility)	0.0019616736651483966	
GRR	0.006756370587215583	
Part Variation(PV)	0.0068827488888888887	
Total Variation(TV)	0.009644727874818088	
Precision/Tolerance Ratio	10.135	

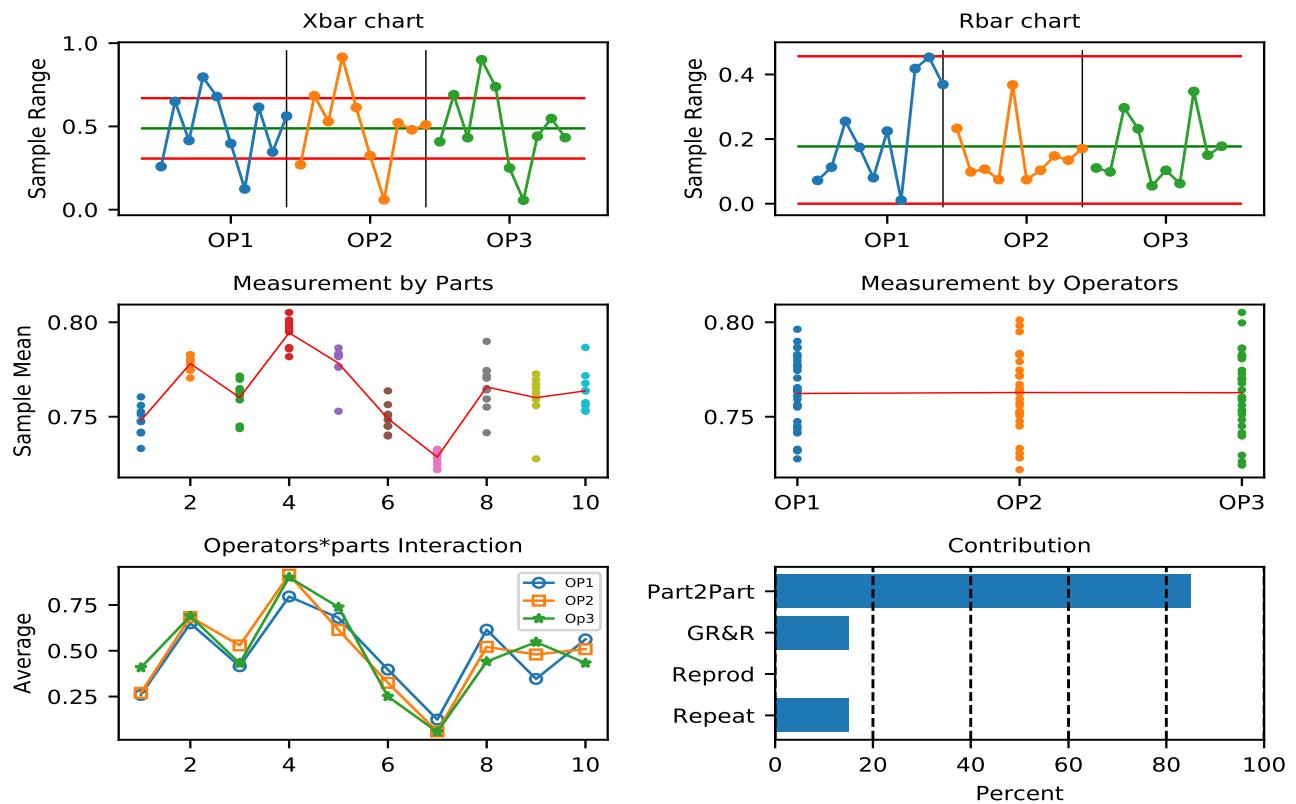
2.136 SFR_60IH_TR_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.45	
Equipment Variation(EV, Repeatability)	0.007207760000000008	
Appraiser Variation(AV, Reproducibility)	0.0013102445431183198	
GRR	0.007325881856839588	
Part Variation(PV)	0.009696671111111138	
Total Variation(TV)	0.01215294102748091	
Precision/Tolerance Ratio	7.992	

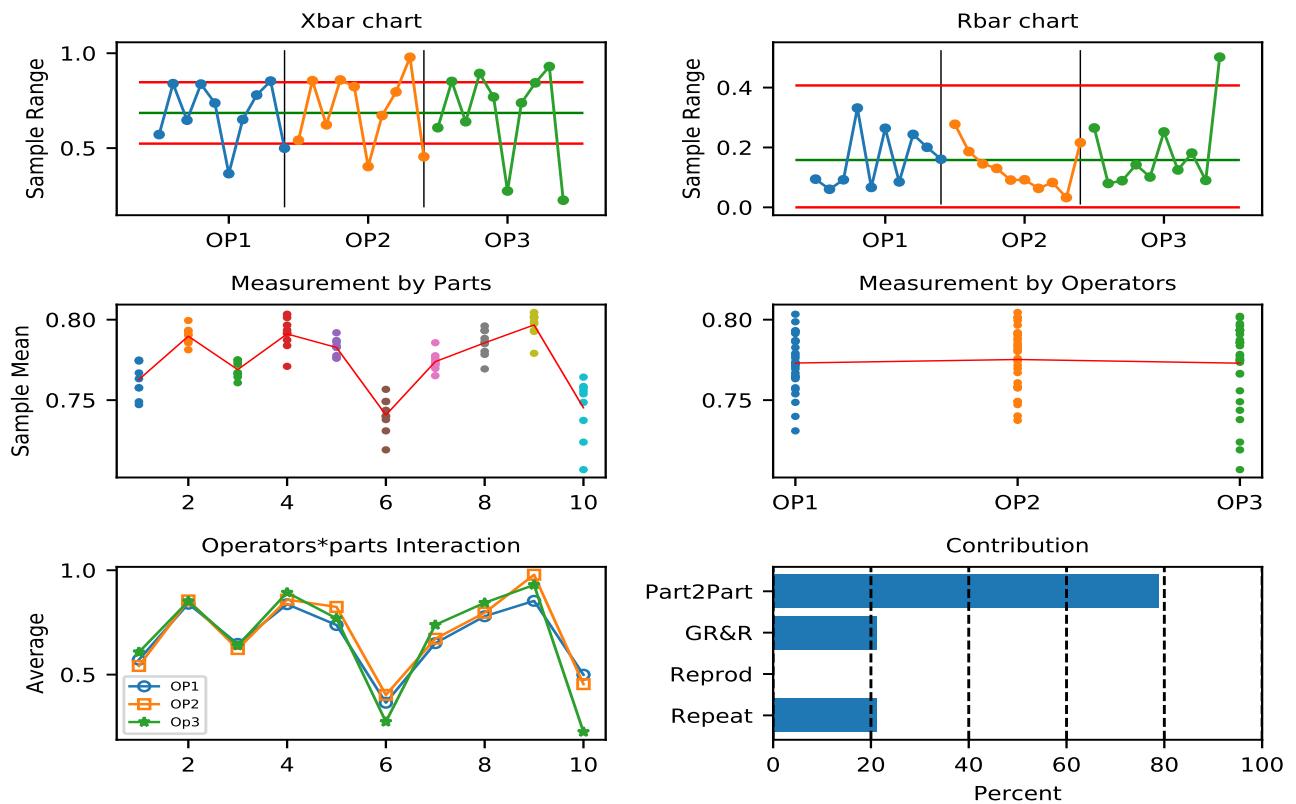
2.137 SFR_60IH_TL_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.45	
Equipment Variation(EV, Repeatability)	0.008712330666666674	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.008712330666666674	
Part Variation(PV)	0.0206901933333329	
Total Variation(TV)	0.022449695004967216	
Precision/Tolerance Ratio	9.504	

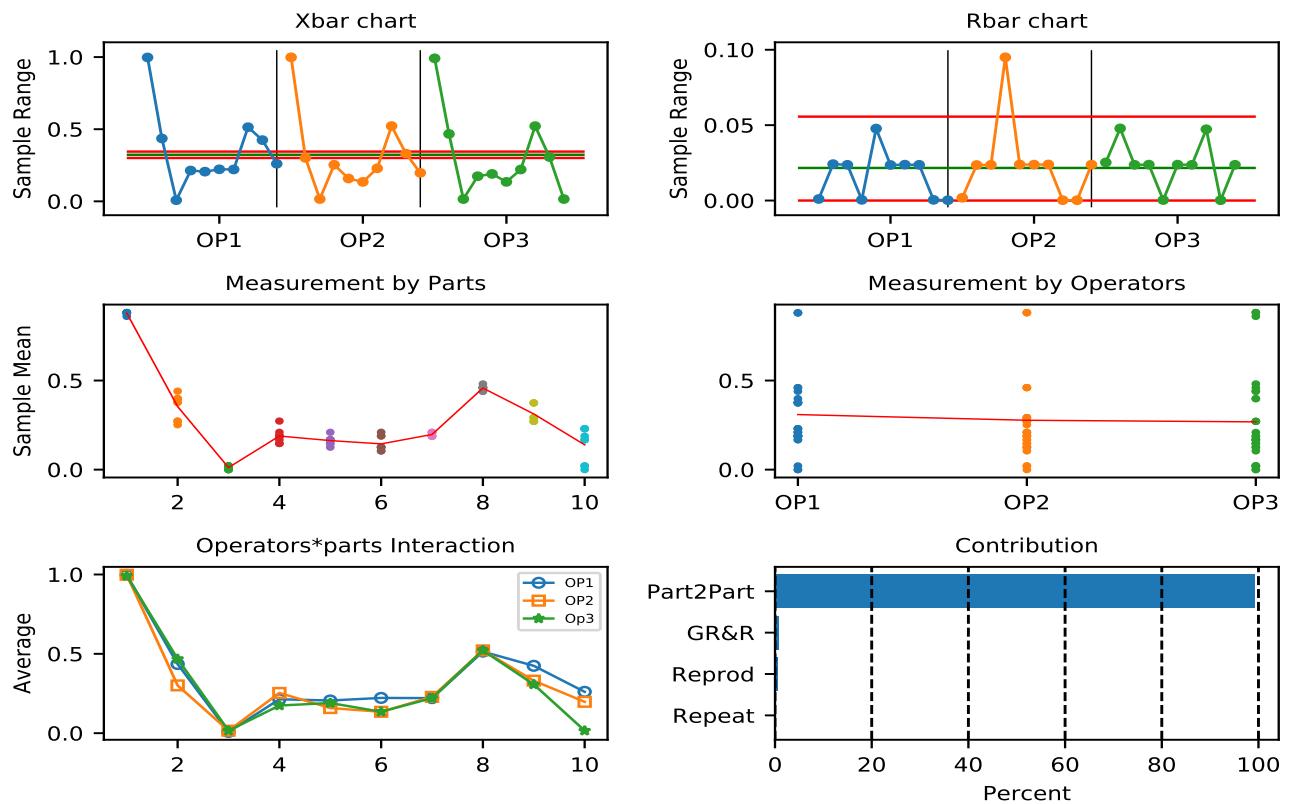
2.138 SFR_60IH_BR_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	0.45	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.009125890666666666	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.009125890666666666	
Part Variation(PV)	0.01761410444444507	
Total Variation(TV)	0.019837806225481522	
Precision/Tolerance Ratio	12.168	

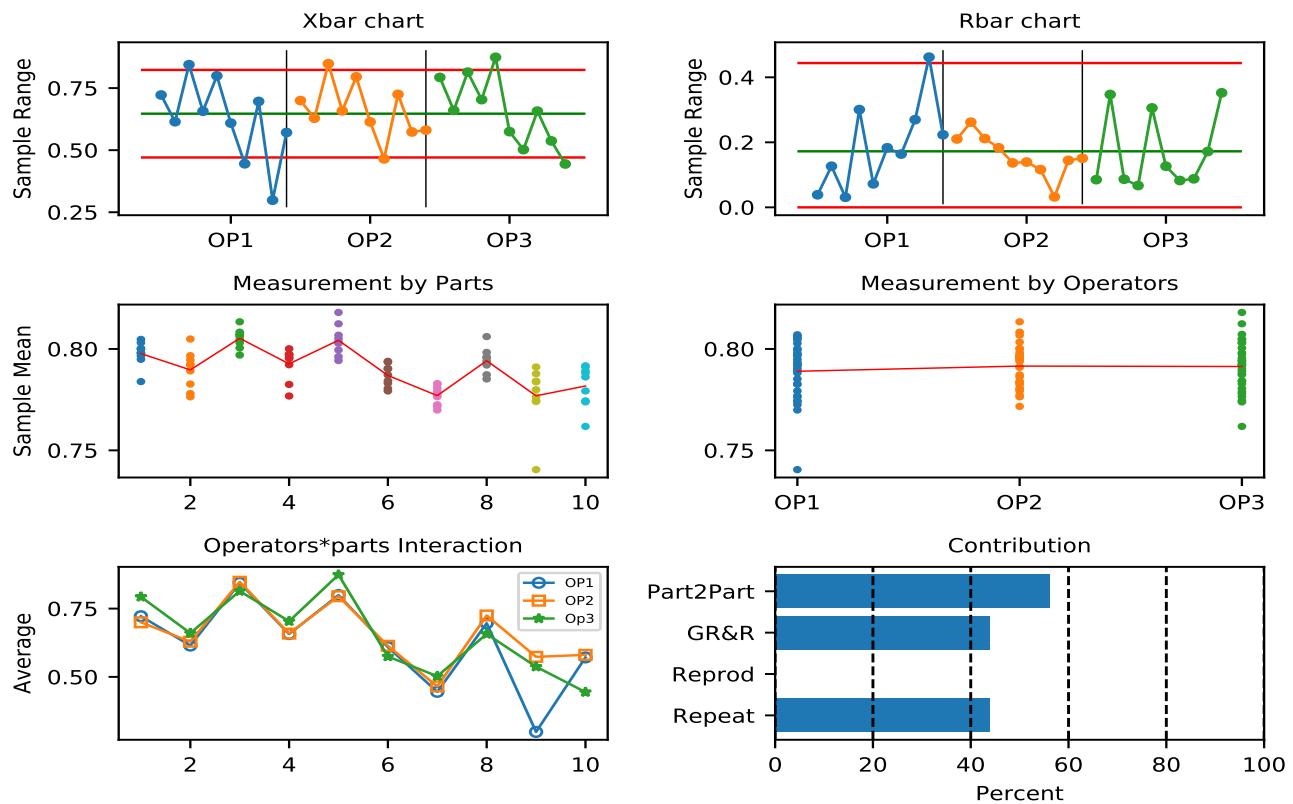
2.139 lower_horiz_theta



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	0.45	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.011264586666666666	
Appraiser Variation(AV, Reproducibility)	0.021297463601481725	
GRR	0.024093004557906084	
Part Variation(PV)	0.2726708111111113	
Total Variation(TV)	0.2737331622230279	
Precision/Tolerance Ratio	32.124	

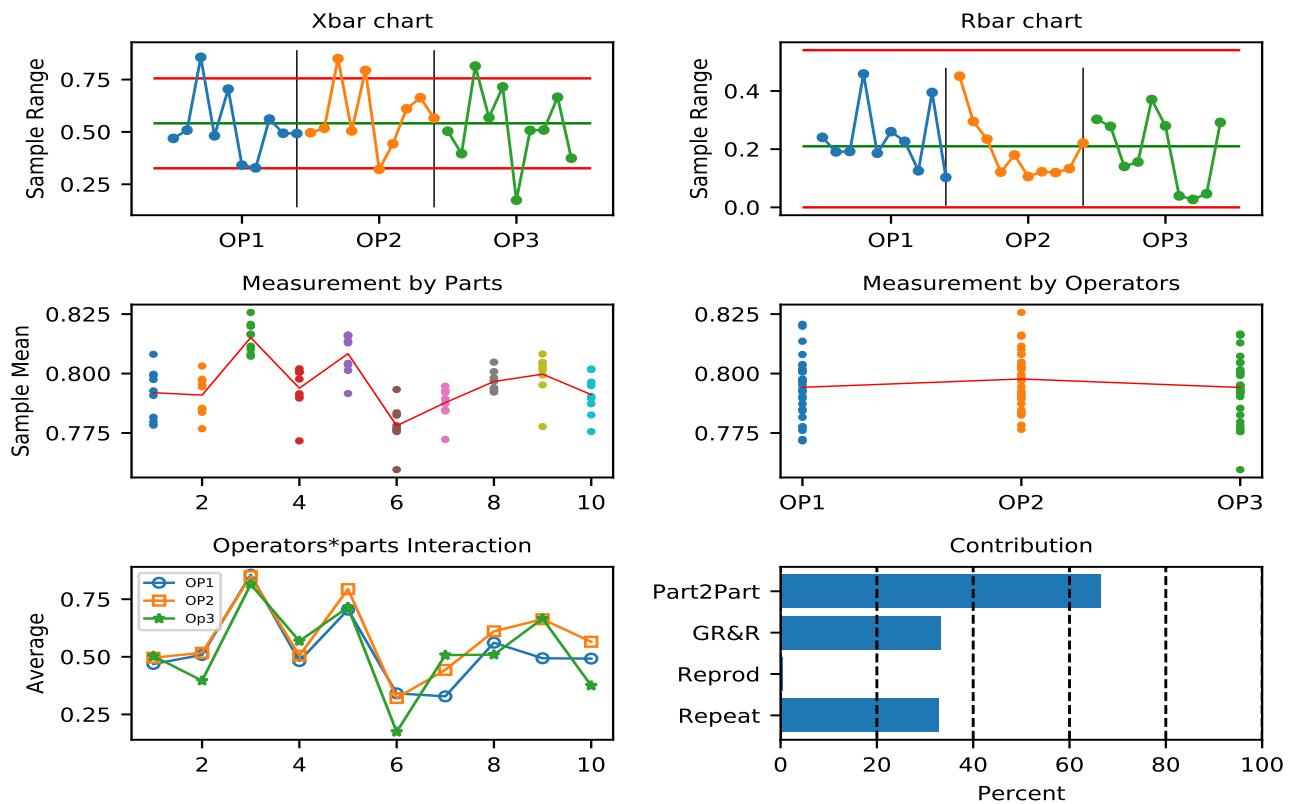
2.140 SFR_30IH_BL_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.68	
Equipment Variation(EV, Repeatability)	0.007891118666666662	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.007891118666666662	
Part Variation(PV)	0.0089206577777782	
Total Variation(TV)	0.011909991141879281	
Precision/Tolerance Ratio	14.796	

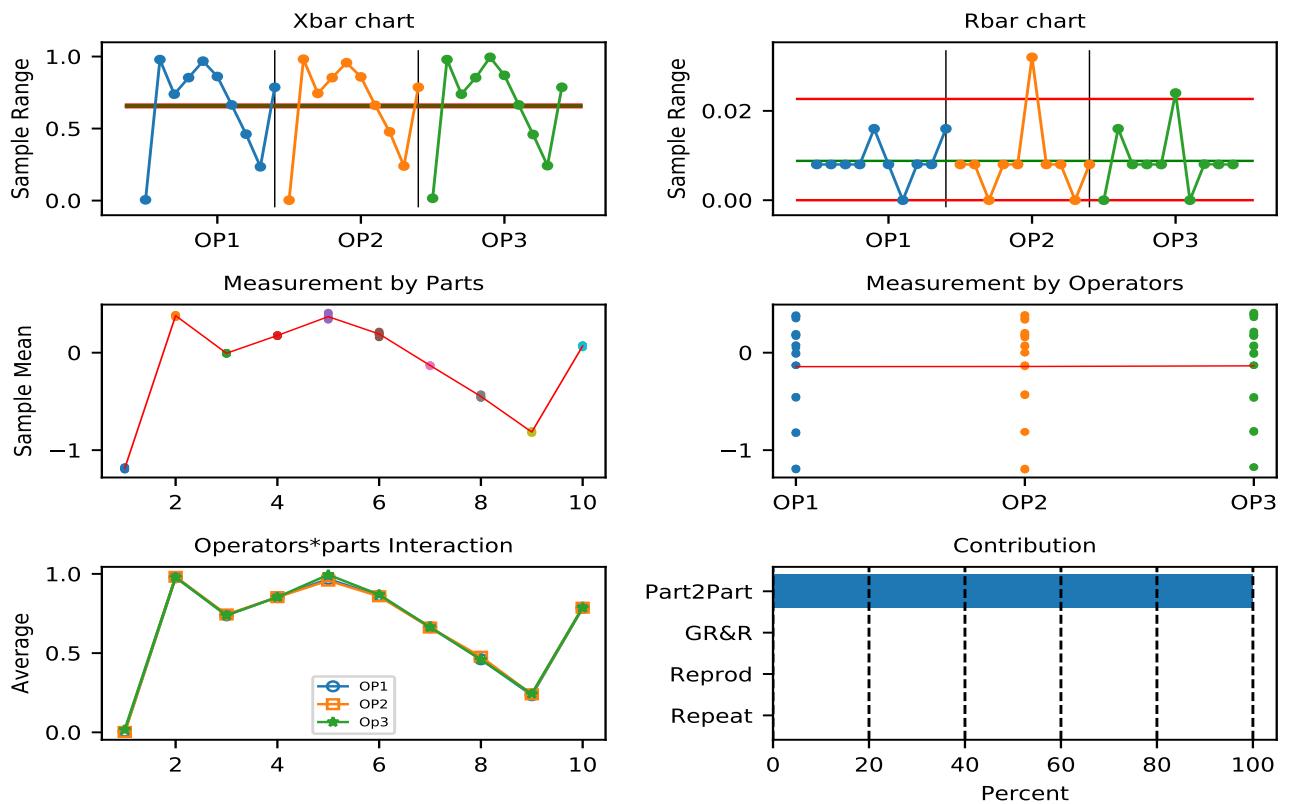
2.141 SFR_30IH_BL_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.68	
Equipment Variation(EV, Repeatability)	0.008194396000000001	
Appraiser Variation(AV, Reproducibility)	0.0011030302560104627	
GRR	0.008268301007491836	
Part Variation(PV)	0.011675155555555555	
Total Variation(TV)	0.014306434174765919	
Precision/Tolerance Ratio	15.503	

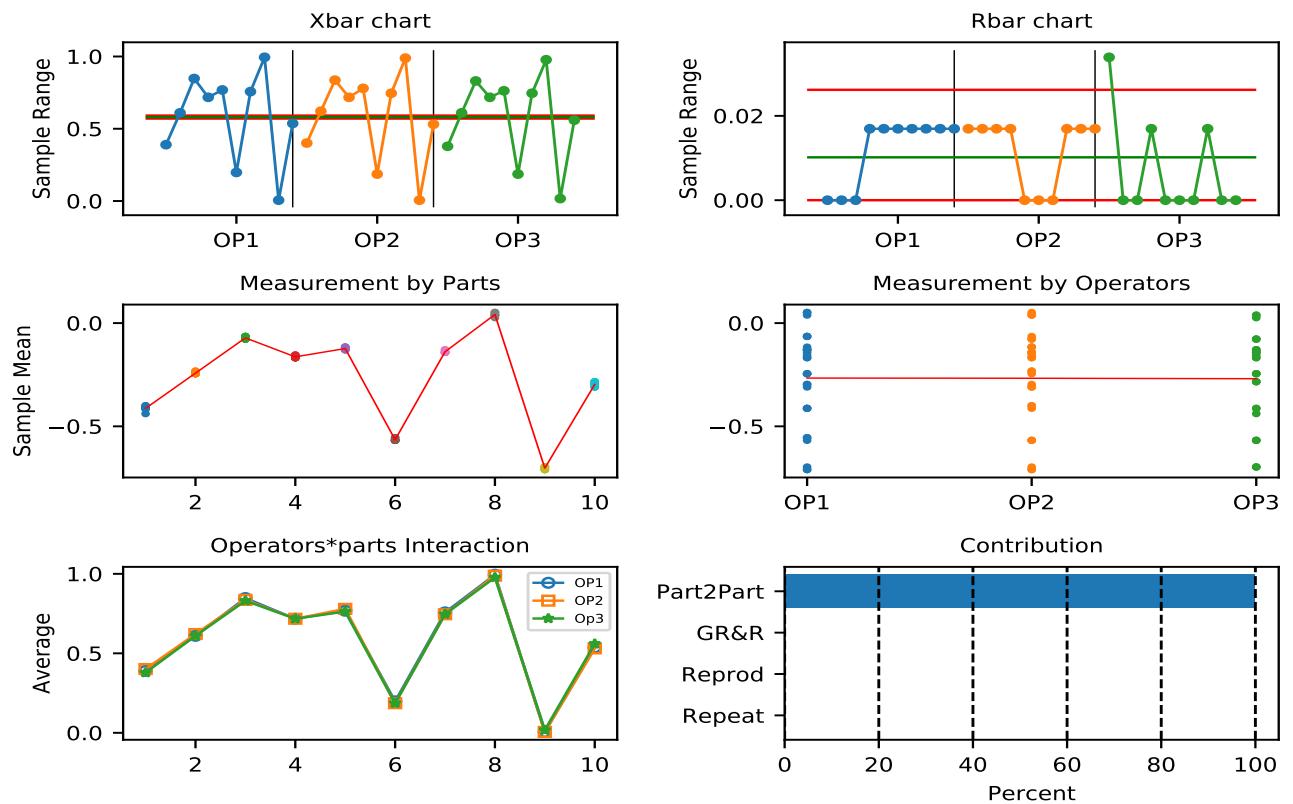
2.142 *tilt_x*



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.6	
Equipment Variation(EV, Repeatability)	0.008387390666666666	
Appraiser Variation(AV, Reproducibility)	0.003988094473191645	
GRR	0.009287261152912021	
Part Variation(PV)	0.49295722666666664	
Total Variation(TV)	0.4930447044058112	
Precision/Tolerance Ratio	13.931	

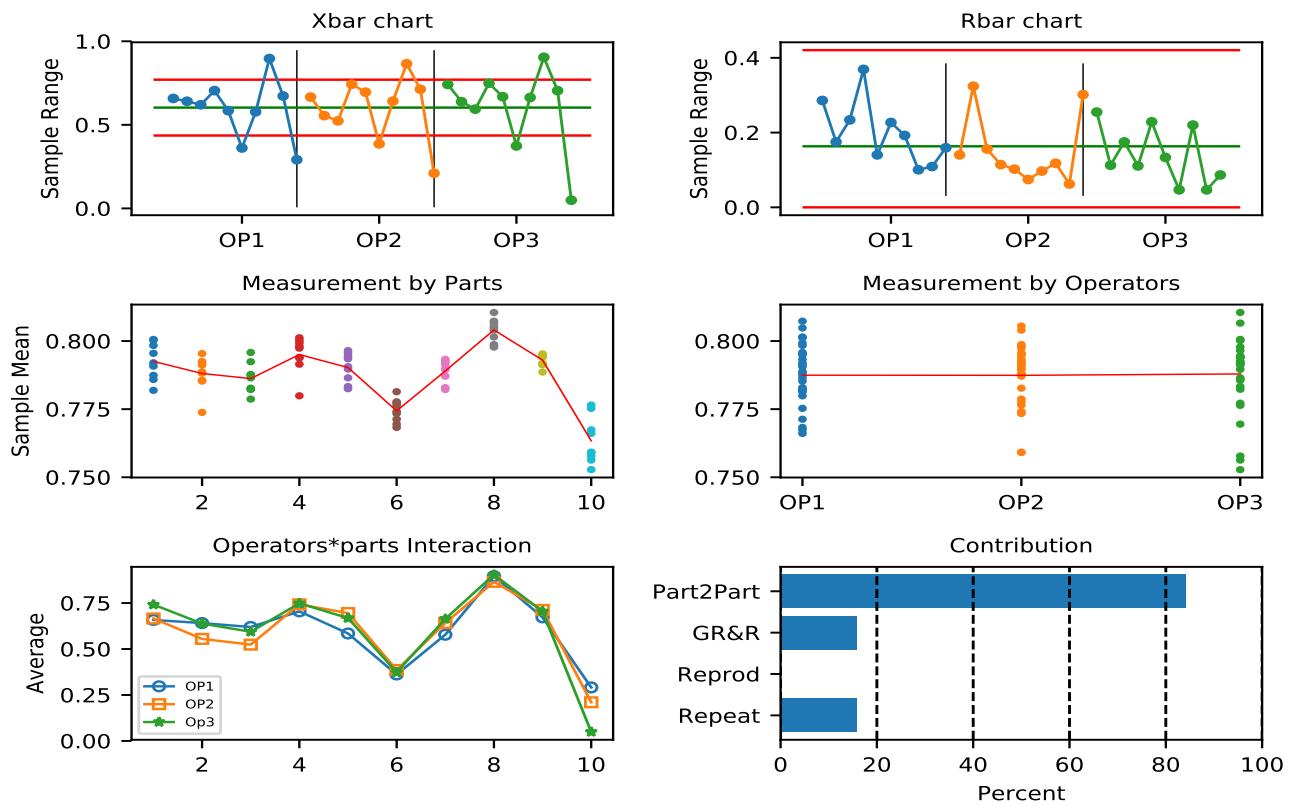
2.143 tilt_y



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.6	
Equipment Variation(EV, Repeatability)	0.004572791999999998	
Appraiser Variation(AV, Reproducibility)	0.0013349657851241467	
GRR	0.004763670887321679	
Part Variation(PV)	0.23409385999999996	
Total Variation(TV)	0.23414232391864204	
Precision/Tolerance Ratio	7.146	

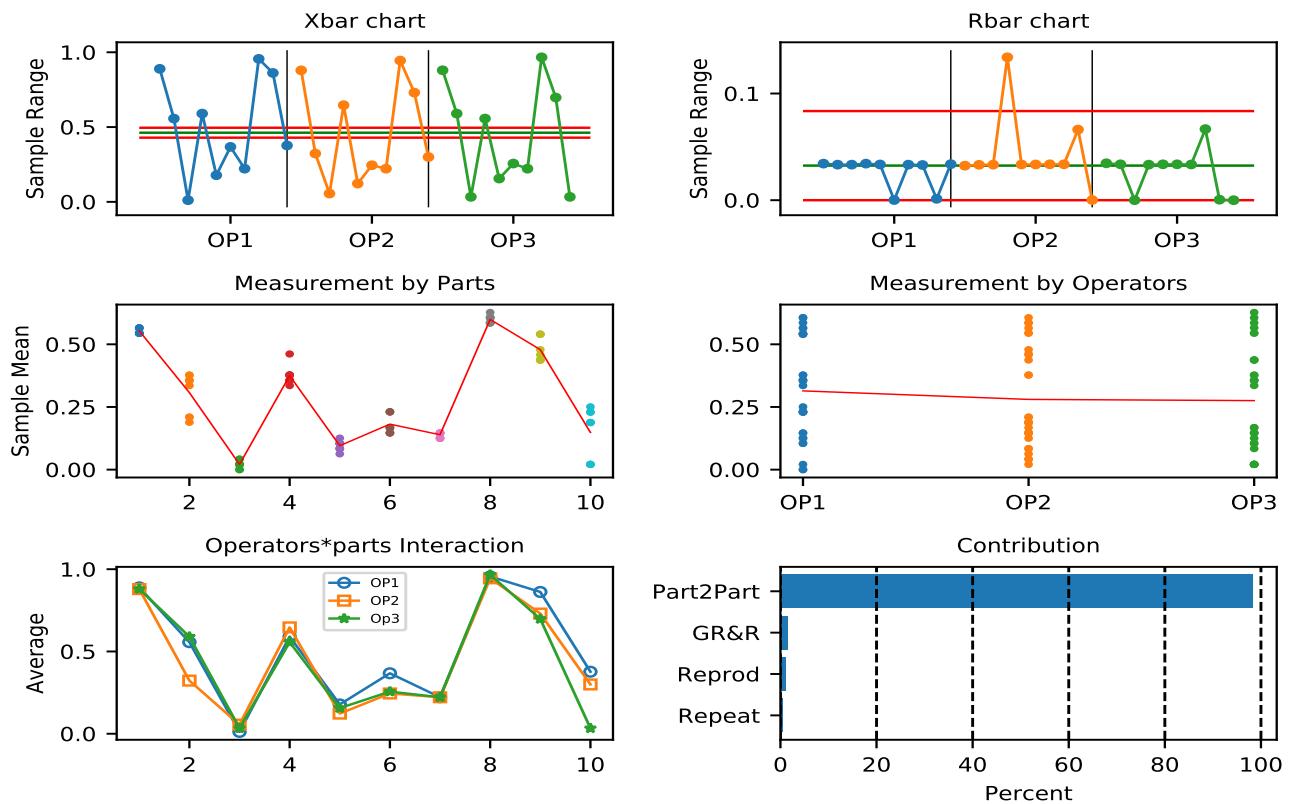
2.144 SFR_60IH_BR_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.54	
Equipment Variation(EV, Repeatability)	0.0055673053333333365	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.0055673053333333365	
Part Variation(PV)	0.0128007244444444442	
Total Variation(TV)	0.013958991187659633	
Precision/Tolerance Ratio	7.262	

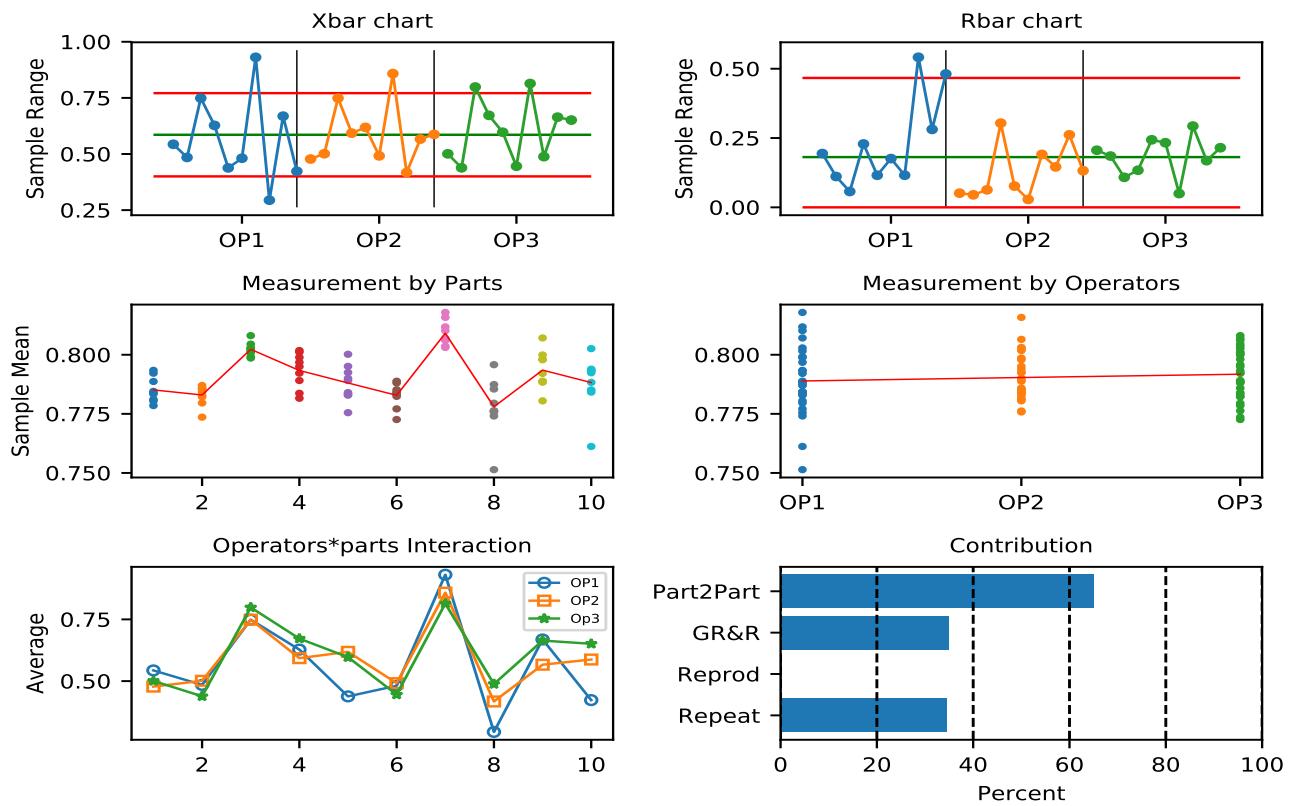
2.145 upper_horiz_theta



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.54	
Equipment Variation(EV, Repeatability)	0.012018841333333334	
Appraiser Variation(AV, Reproducibility)	0.020170295635150378	
GRR	0.023479637412132413	
Part Variation(PV)	0.181968135555555555	
Total Variation(TV)	0.1834766898834025	
Precision/Tolerance Ratio	30.626	

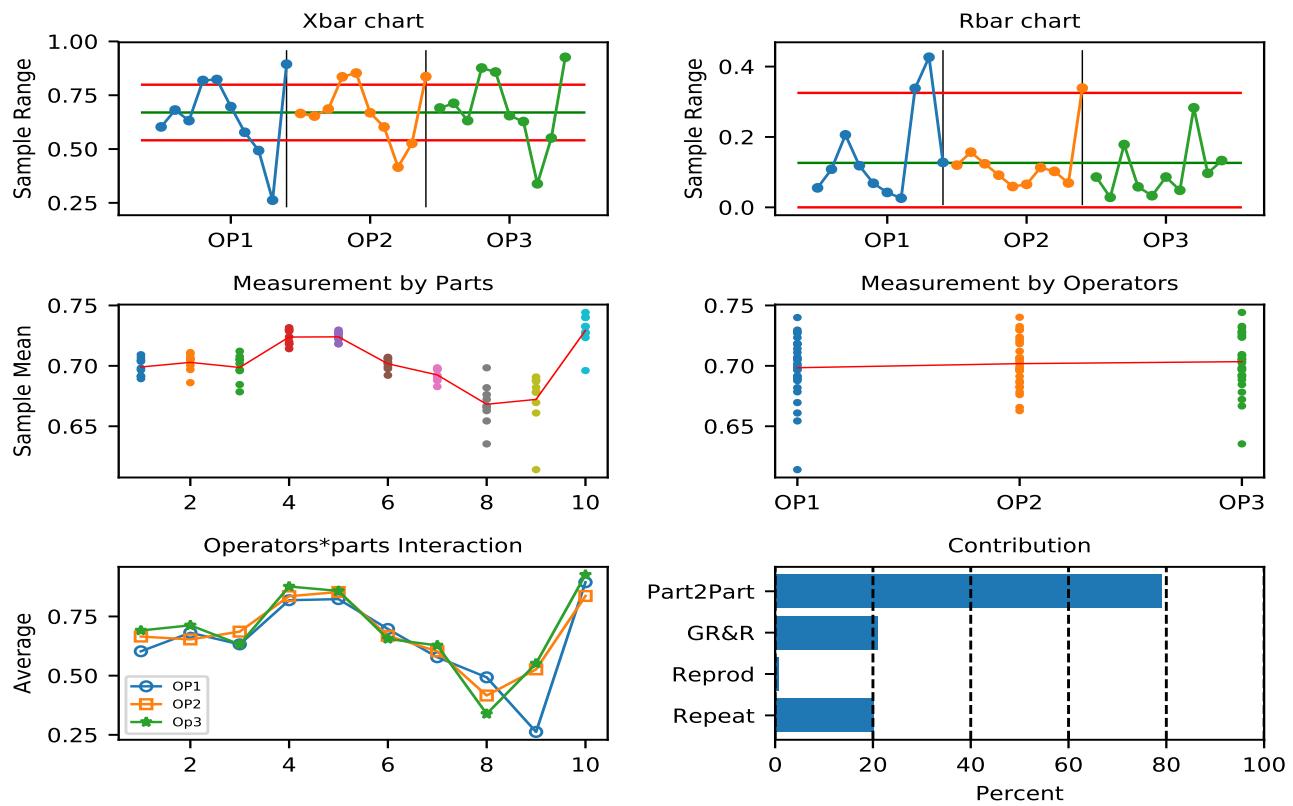
2.146 SFR_30IH_TR_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.45	
Equipment Variation(EV, Repeatability)	0.0071211093333333406	
Appraiser Variation(AV, Reproducibility)	0.0007366541237169102	
GRR	0.007159110100793	
Part Variation(PV)	0.009784059999999997	
Total Variation(TV)	0.012123559193523812	
Precision/Tolerance Ratio	7.81	

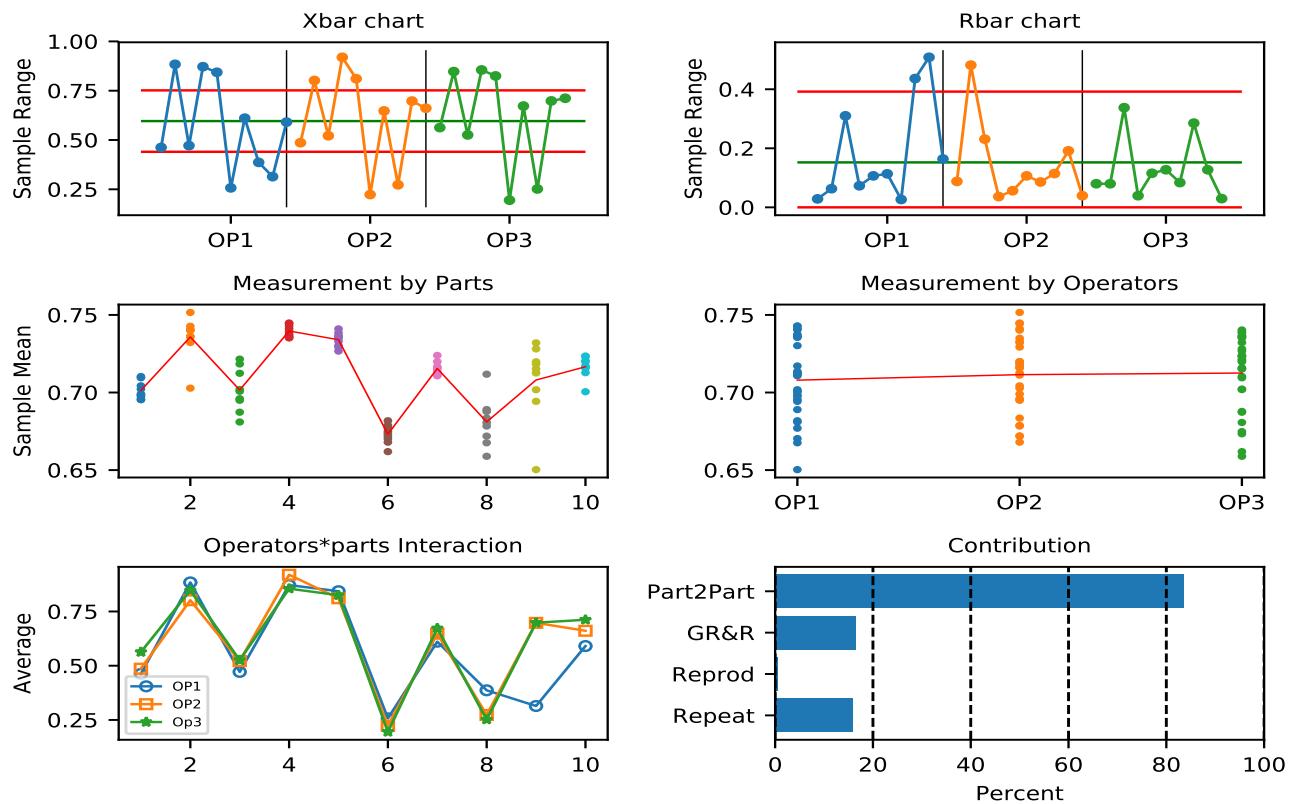
2.147 SFR_80IH_BL_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.45	
Equipment Variation(EV, Repeatability)	0.009706844	
Appraiser Variation(AV, Reproducibility)	0.0019377604970943997	
GRR	0.00989837038024116	
Part Variation(PV)	0.019232546666666645	
Total Variation(TV)	0.02163027016636514	
Precision/Tolerance Ratio	10.798	

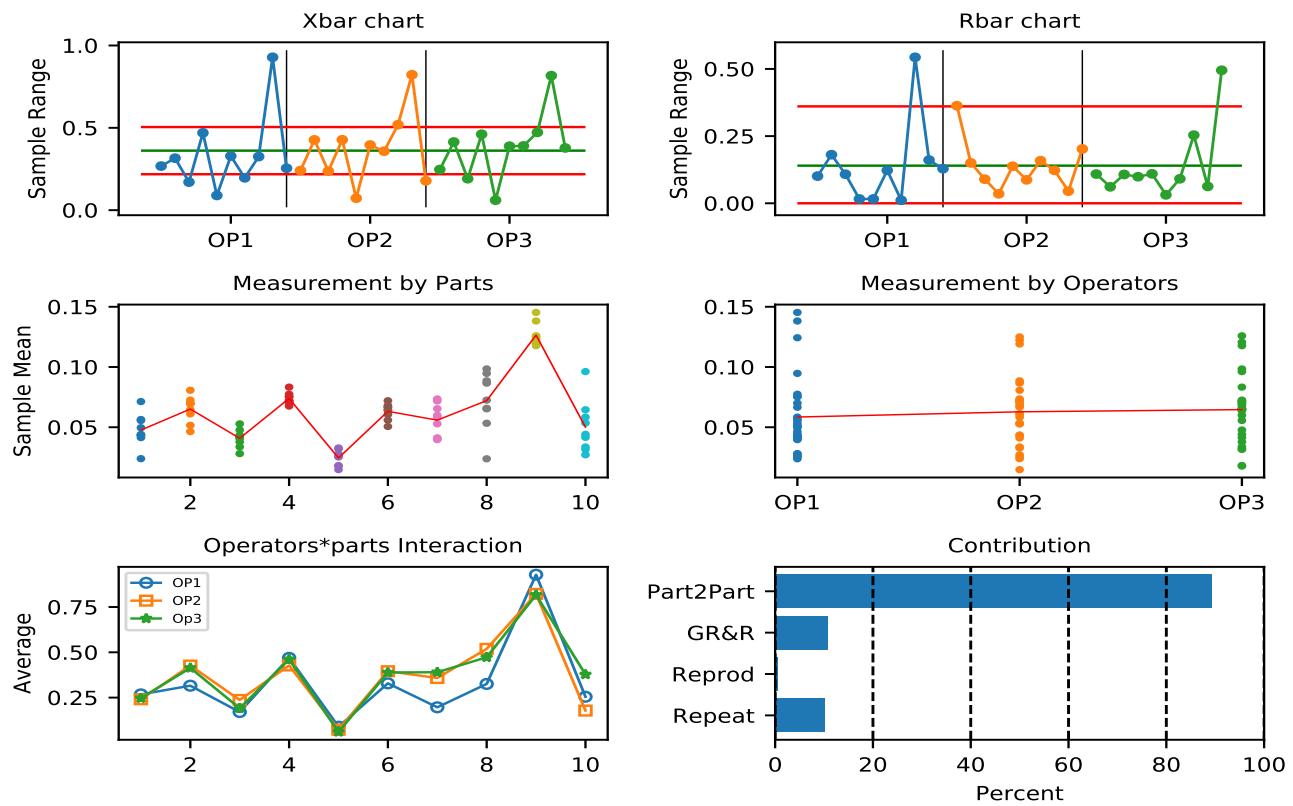
2.148 SFR_80IH_BL_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.45	
Equipment Variation(EV, Repeatability)	0.009112105333333335	
Appraiser Variation(AV, Reproducibility)	0.0017264193937774346	
GRR	0.009274210884435002	
Part Variation(PV)	0.02093488222222221	
Total Variation(TV)	0.022897167536341436	
Precision/Tolerance Ratio	10.117	

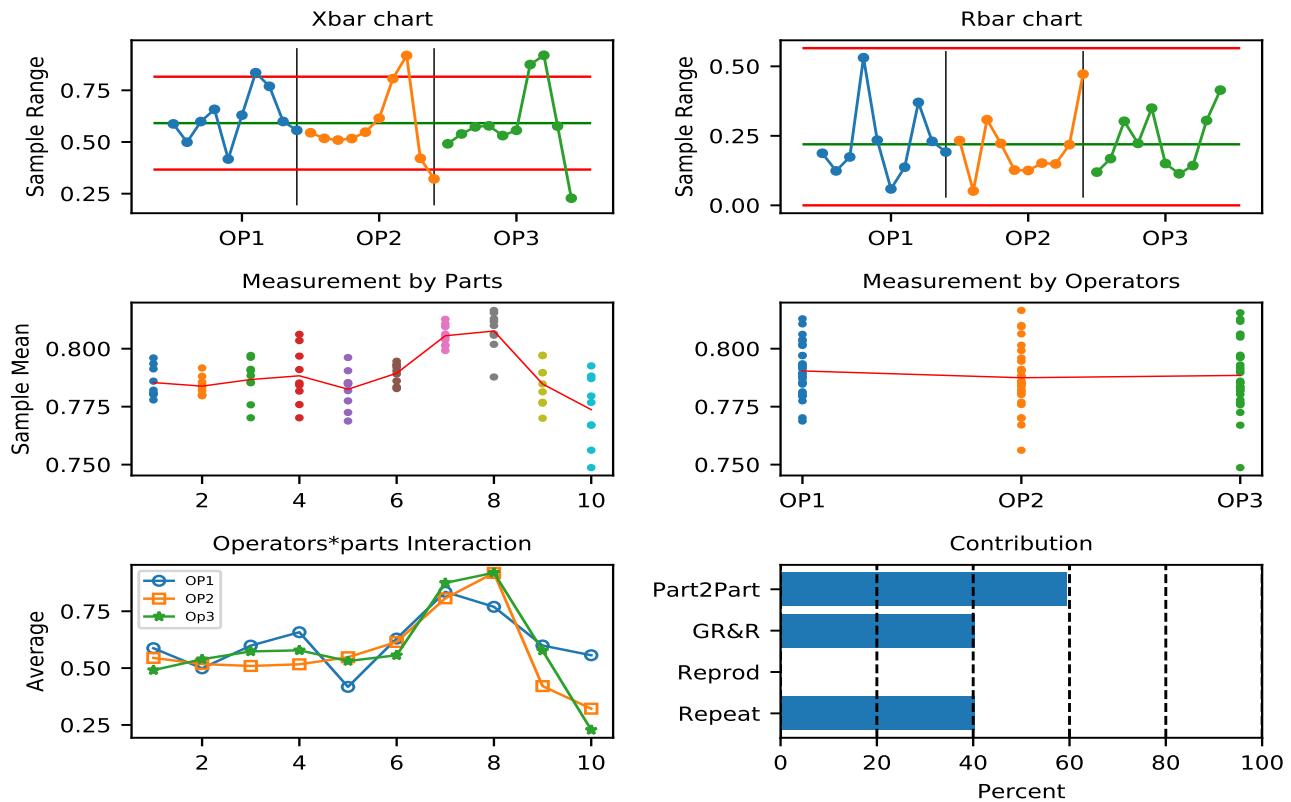
2.149 corner_balance_IH80_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.45	
Equipment Variation(EV, Repeatability)	0.0107978546666666667	
Appraiser Variation(AV, Reproducibility)	0.0025554794114439295	
GRR	0.011096131777550632	
Part Variation(PV)	0.03208919999999999	
Total Variation(TV)	0.03395351082089698	
Precision/Tolerance Ratio	12.105	

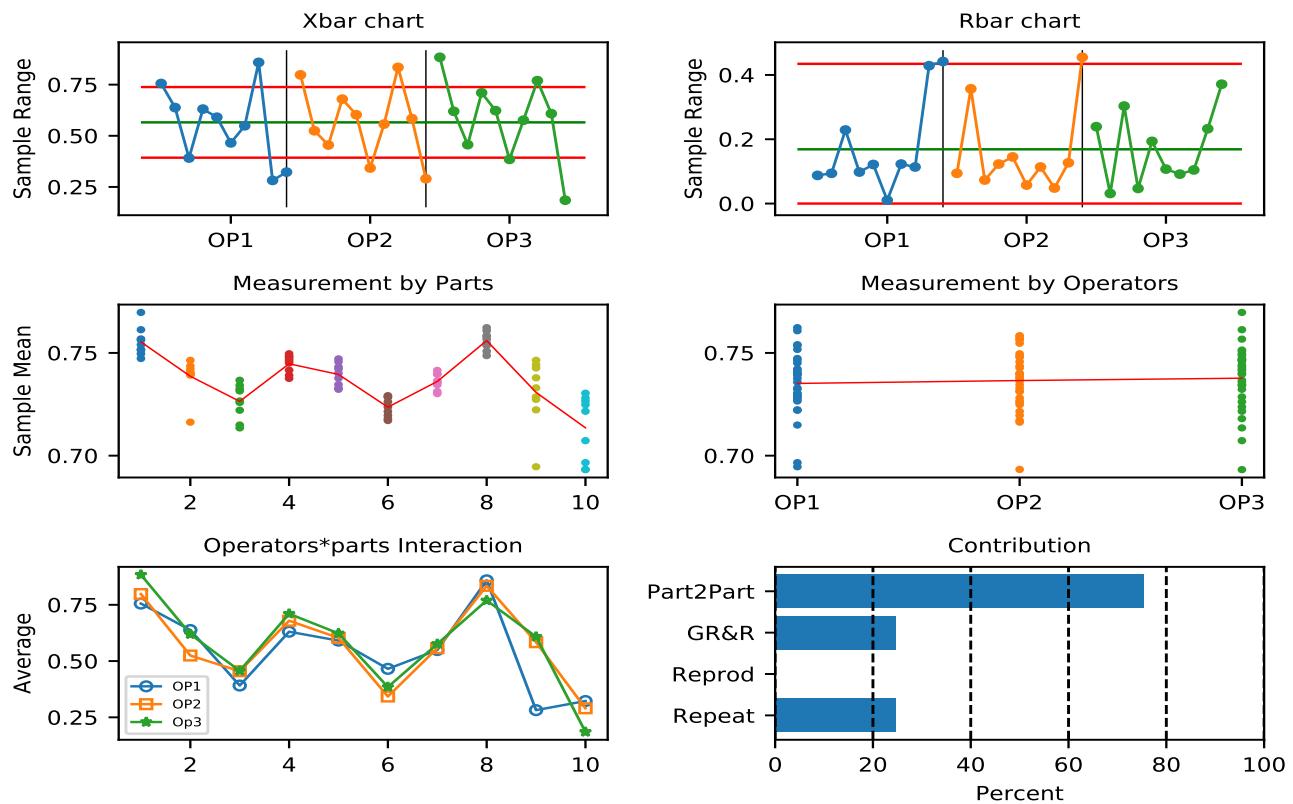
2.150 SFR_30IH_TR_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.45	
Equipment Variation(EV, Repeatability)	0.008795042666666659	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.008795042666666659	
Part Variation(PV)	0.01067193111111066	
Total Variation(TV)	0.013829059590181367	
Precision/Tolerance Ratio	9.595	

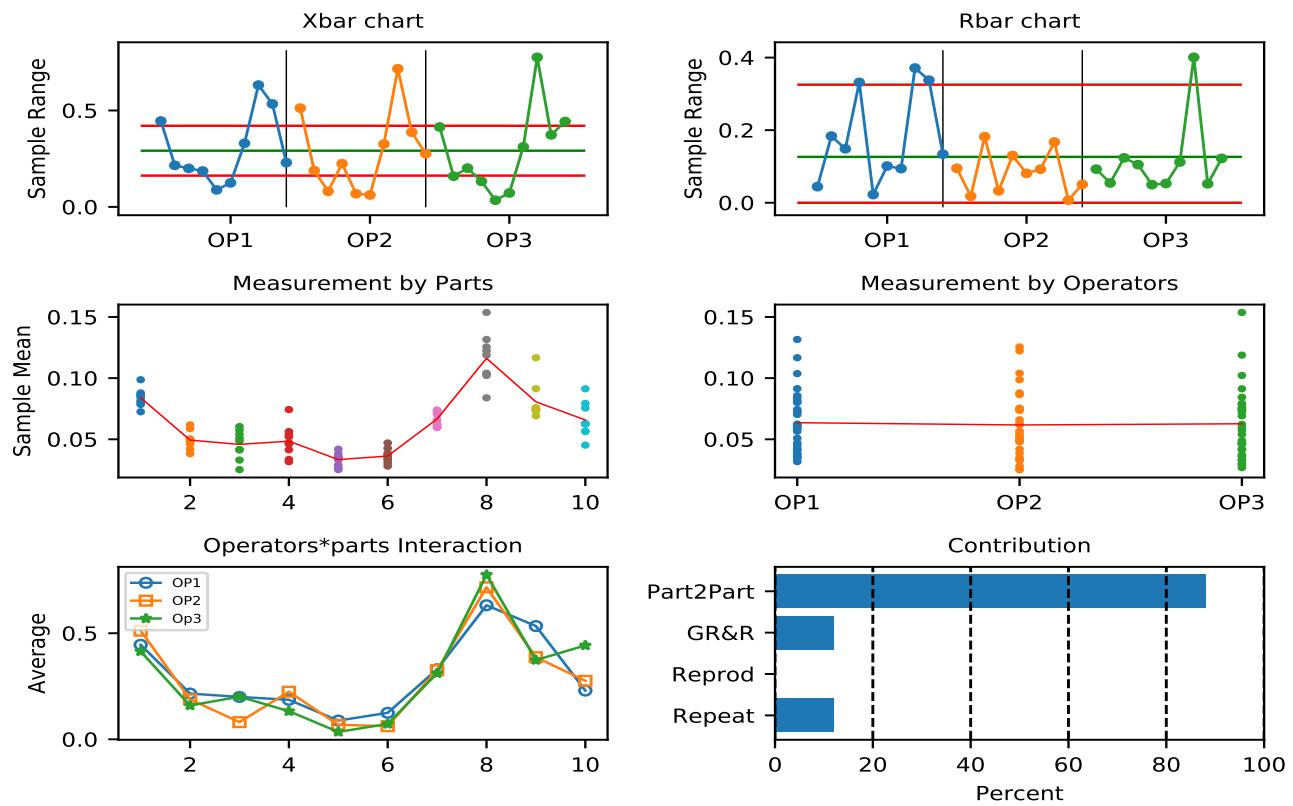
2.151 SFR_80IH_BR_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.45	
Equipment Variation(EV, Repeatability)	0.007627228000000002	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.007627228000000002	
Part Variation(PV)	0.013356517777777785	
Total Variation(TV)	0.015380870395139478	
Precision/Tolerance Ratio	8.321	

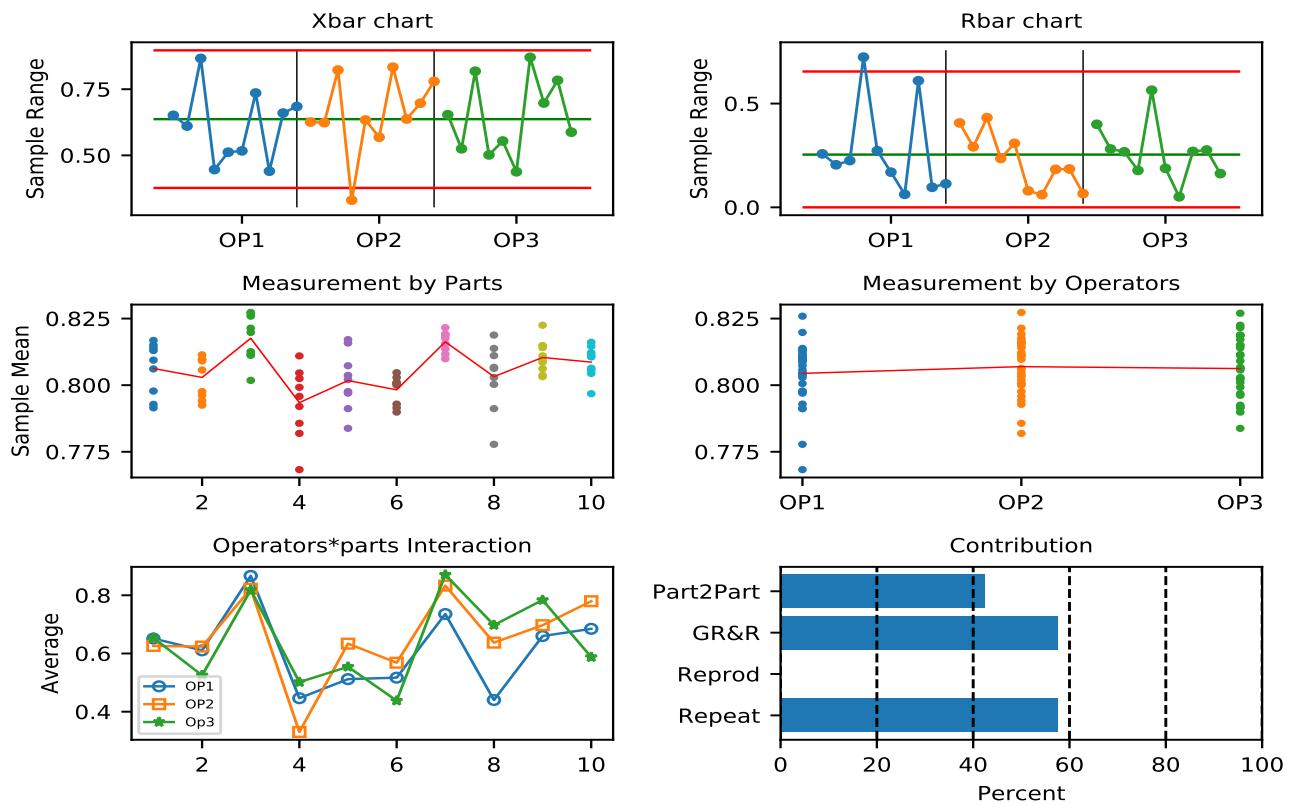
2.152 corner_balance_IH80_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.45	
Equipment Variation(EV, Repeatability)	0.009592622666666667	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.009592622666666667	
Part Variation(PV)	0.026045384444444434	
Total Variation(TV)	0.027755728426470005	
Precision/Tolerance Ratio	10.465	

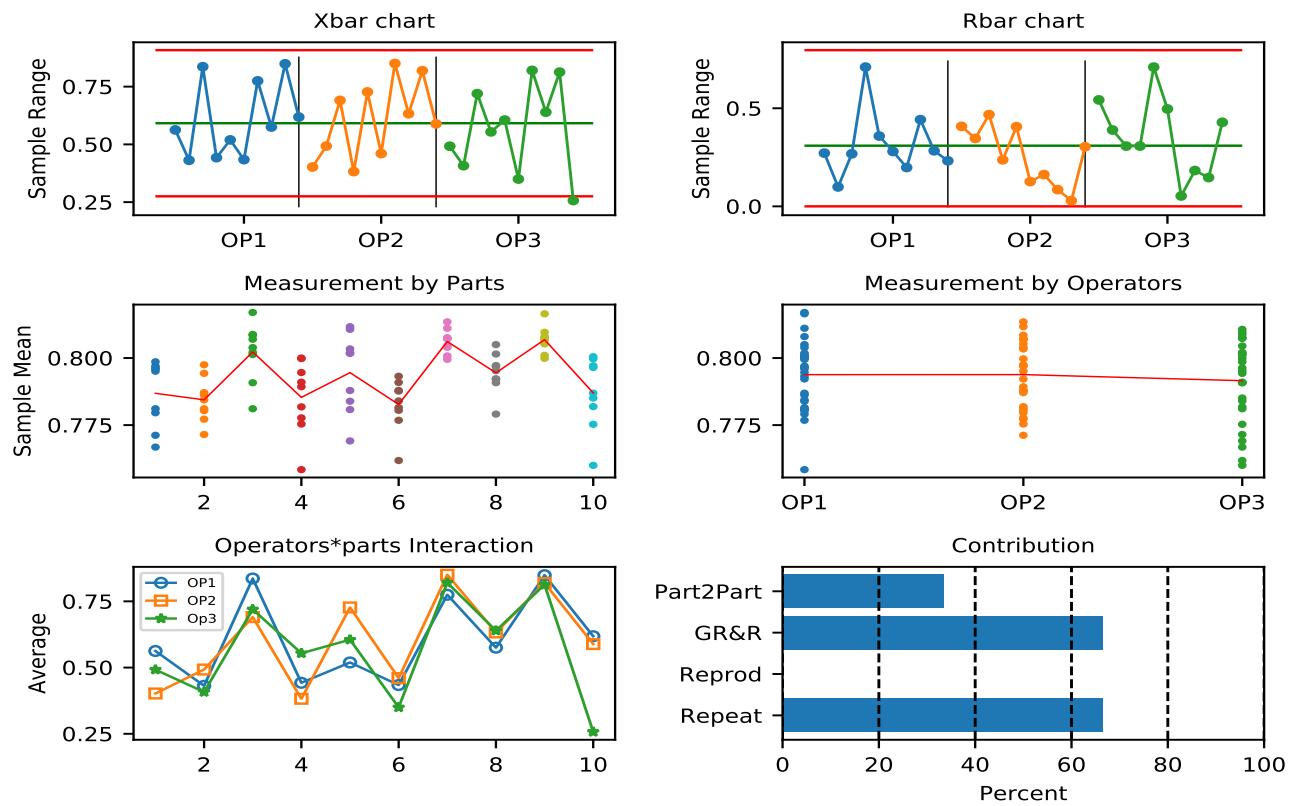
2.153 SFR_Center_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.45	
Equipment Variation(EV, Repeatability)	0.008860030666666666	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.008860030666666666	
Part Variation(PV)	0.007602833333333369	
Total Variation(TV)	0.011674896920689225	
Precision/Tolerance Ratio	9.665	

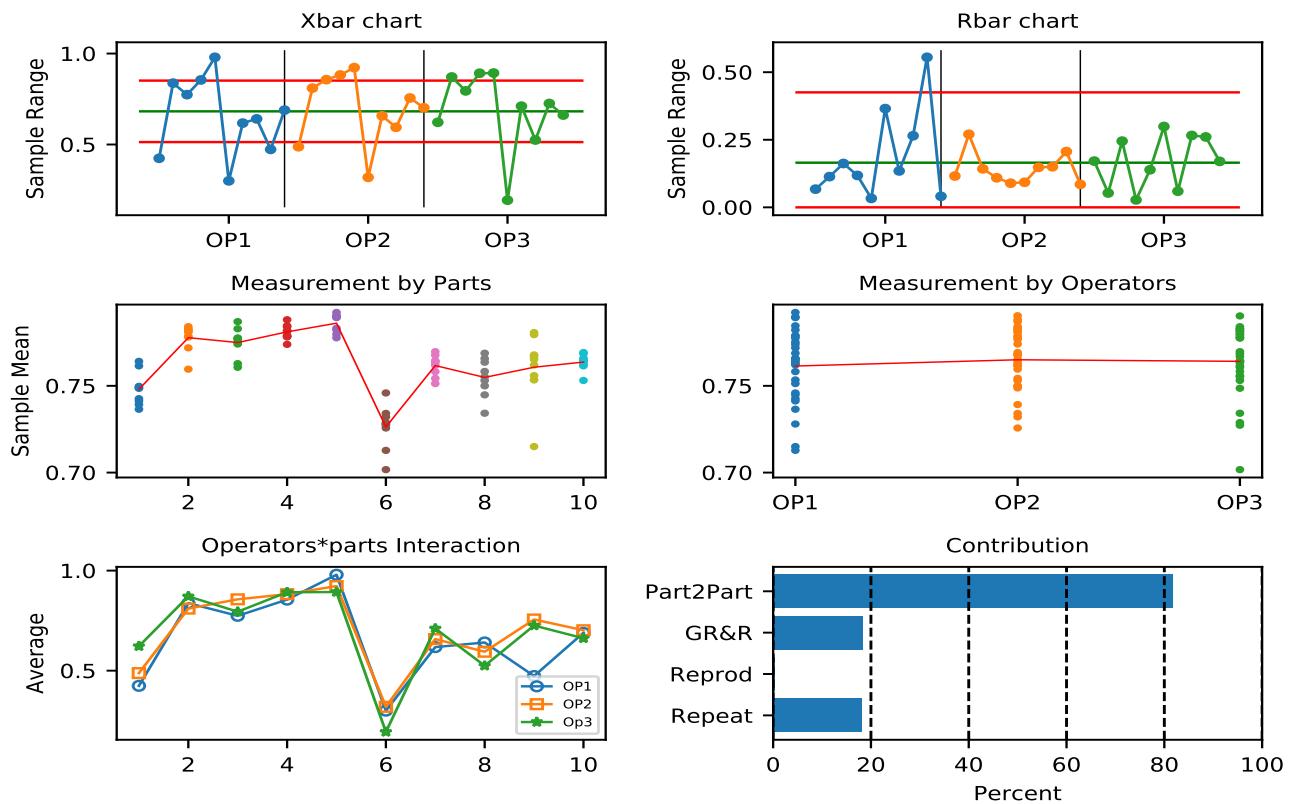
2.154 SFR_30IH_BR_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.54	
Equipment Variation(EV, Repeatability)	0.010705295999999998	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.010705295999999998	
Part Variation(PV)	0.007599337777777756	
Total Variation(TV)	0.013128339465003793	
Precision/Tolerance Ratio	13.963	

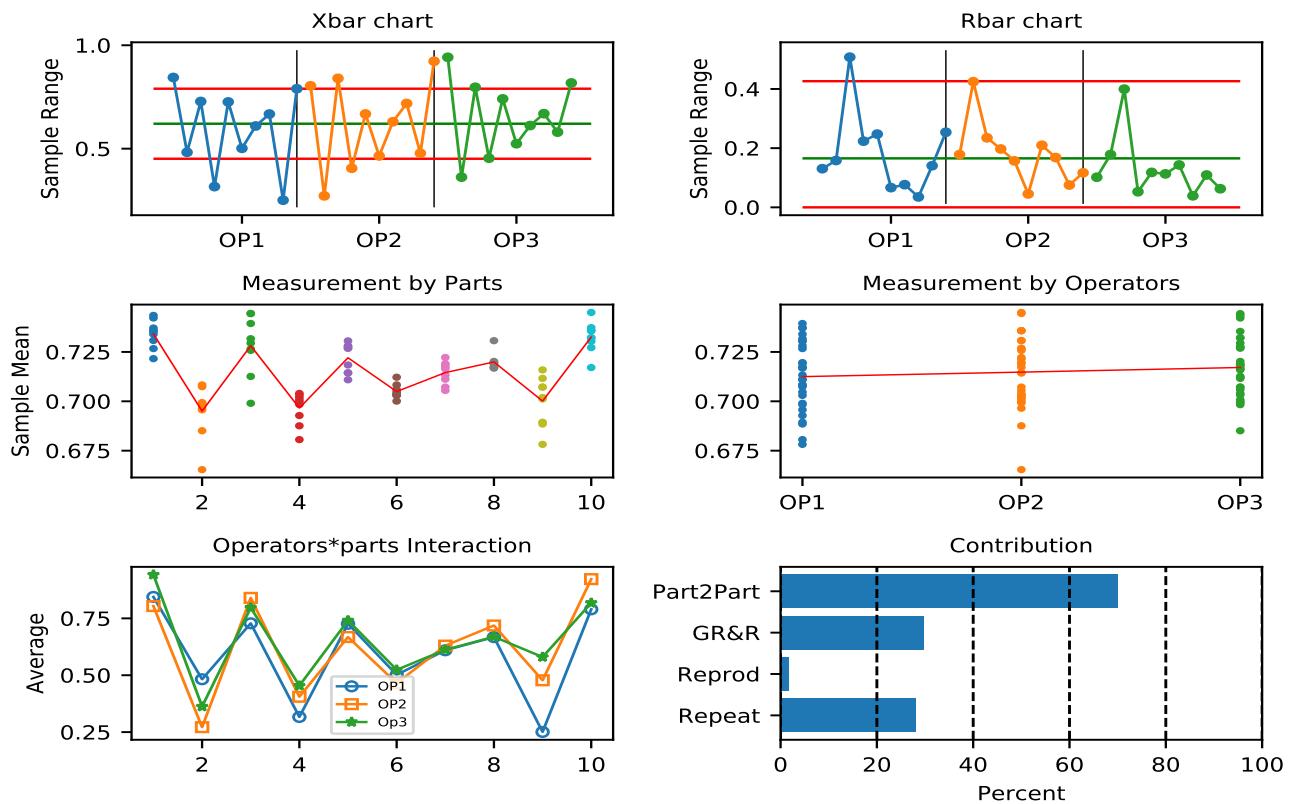
2.155 SFR_60IH_BL_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.54	
Equipment Variation(EV, Repeatability)	0.008842306666666667	
Appraiser Variation(AV, Reproducibility)	0.000972958851322827	
GRR	0.00889567513535343	
Part Variation(PV)	0.018827062222222267	
Total Variation(TV)	0.020822855424585125	
Precision/Tolerance Ratio	11.603	

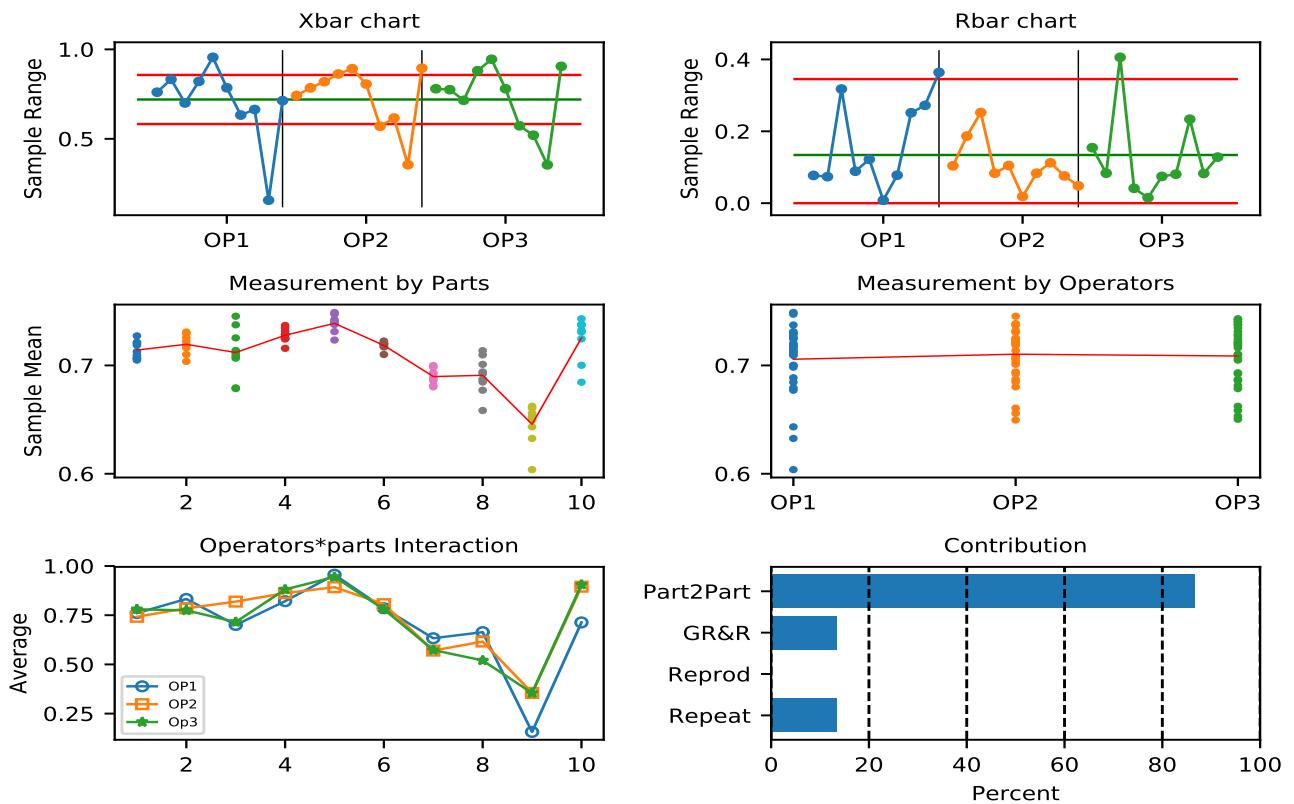
2.156 SFR_80IH_TR_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.6	
Equipment Variation(EV, Repeatability)	0.007784774666666665	
Appraiser Variation(AV, Reproducibility)	0.0019589085388197675	
GRR	0.008027455342400609	
Part Variation(PV)	0.012300860000000042	
Total Variation(TV)	0.01468847153429645	
Precision/Tolerance Ratio	12.041	

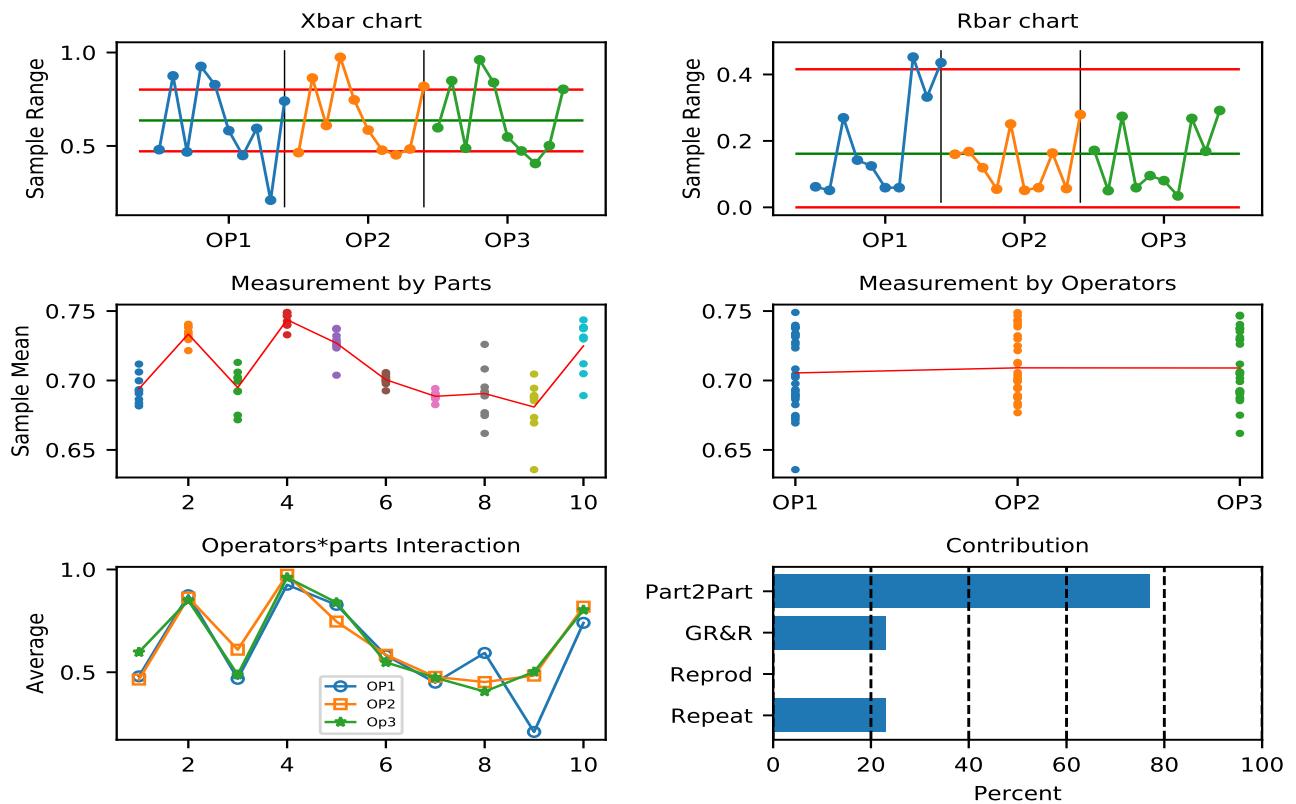
2.157 SFR_80IH_TL_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.6	
Equipment Variation(EV, Repeatability)	0.0114949986666666667	
Appraiser Variation(AV, Reproducibility)	0.0012331377064030578	
GRR	0.01156095251048206	
Part Variation(PV)	0.0293067377777777776	
Total Variation(TV)	0.03150461080738895	
Precision/Tolerance Ratio	17.341	

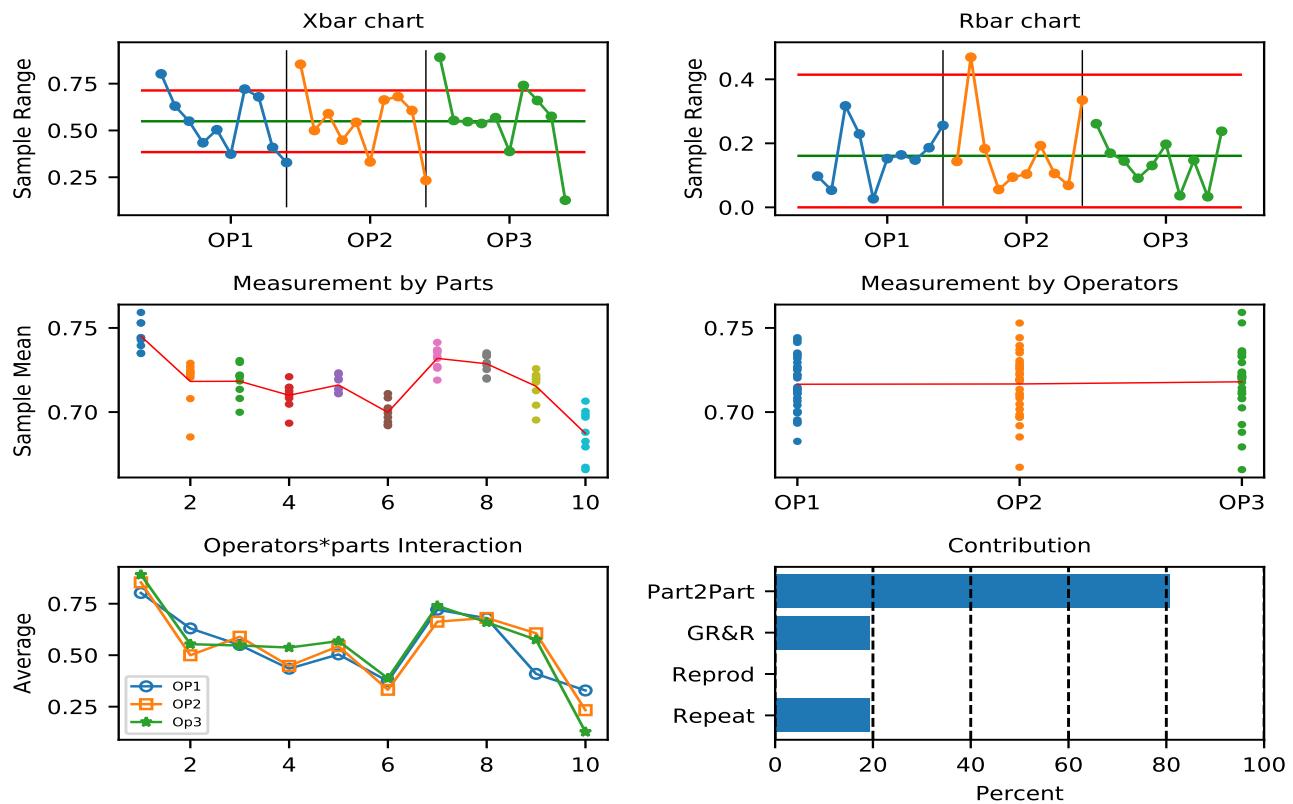
2.158 SFR_80IH_TL_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.68	
Equipment Variation(EV, Repeatability)	0.010795885333333336	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.010795885333333336	
Part Variation(PV)	0.01977435777777774	
Total Variation(TV)	0.022529455511708242	
Precision/Tolerance Ratio	20.242	

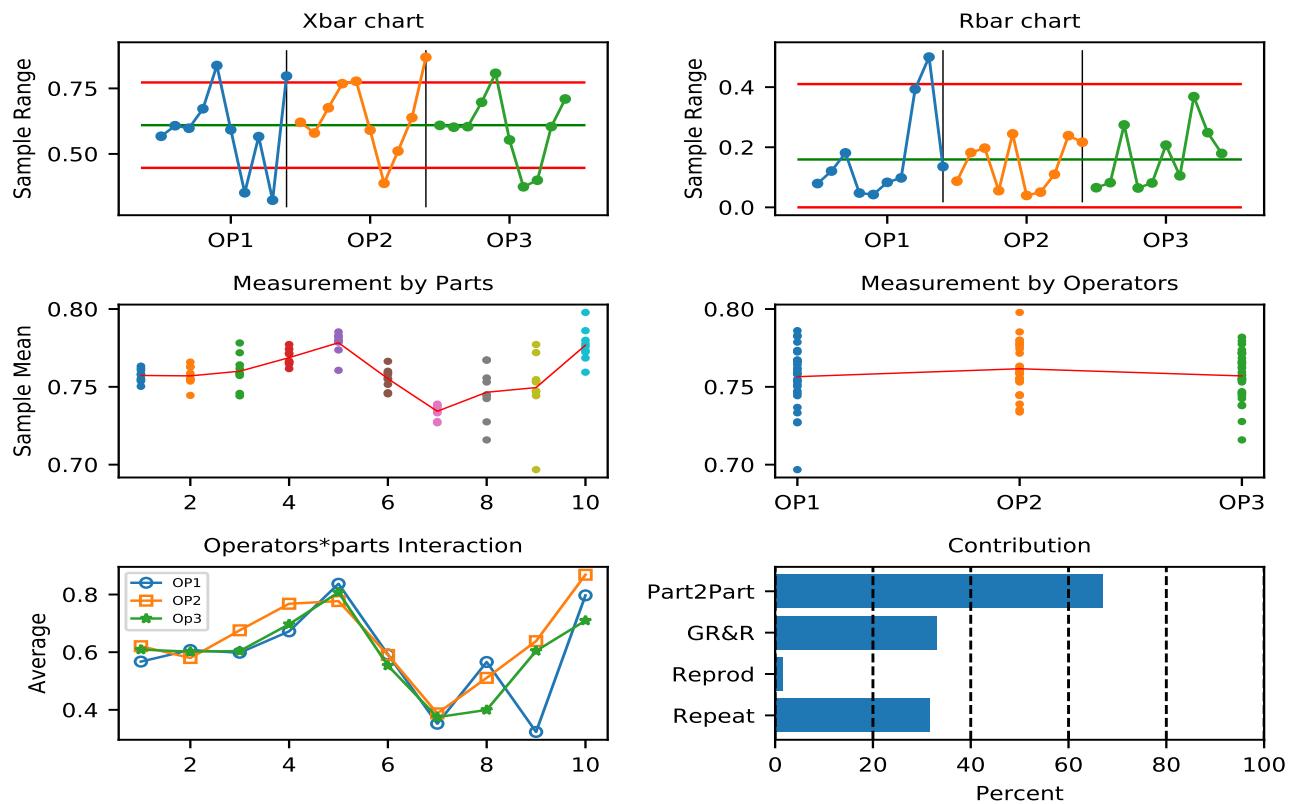
2.159 SFR_80IH_TR_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.68	
Equipment Variation(EV, Repeatability)	0.008881693333333331	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.008881693333333331	
Part Variation(PV)	0.018194366666666652	
Total Variation(TV)	0.020246467713368875	
Precision/Tolerance Ratio	16.653	

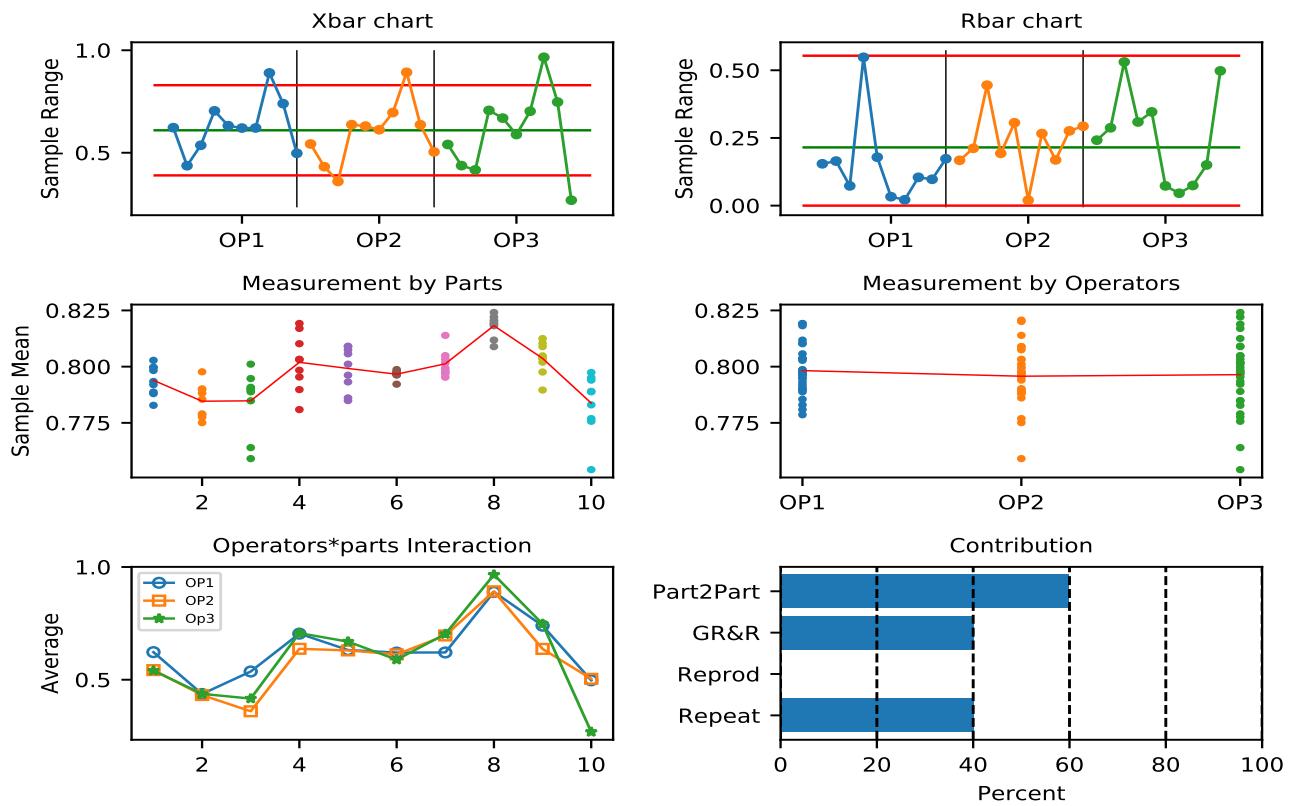
2.160 SFR_60IH_BL_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.45	
Equipment Variation(EV, Repeatability)	0.009504002666666666	
Appraiser Variation(AV, Reproducibility)	0.0020264109421584352	
GRR	0.009717633868103207	
Part Variation(PV)	0.013852886666666713	
Total Variation(TV)	0.016921432474646433	
Precision/Tolerance Ratio	10.601	

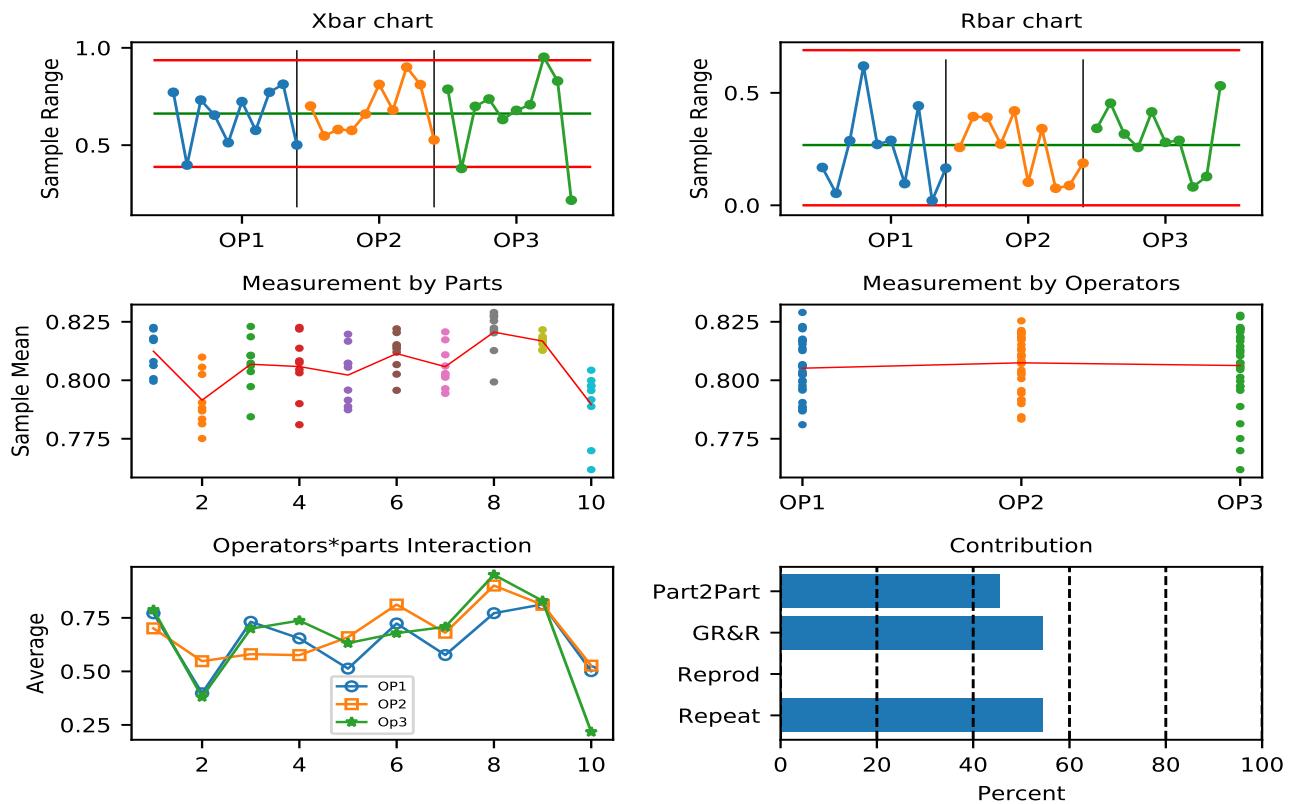
2.161 SFR_30IH_BR_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	1.0	
lower limit(LSL)	0.45	
Equipment Variation(EV, Repeatability)	0.008881693333333336	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.008881693333333336	
Part Variation(PV)	0.010829231111111151	
Total Variation(TV)	0.014005596128877753	
Precision/Tolerance Ratio	9.689	

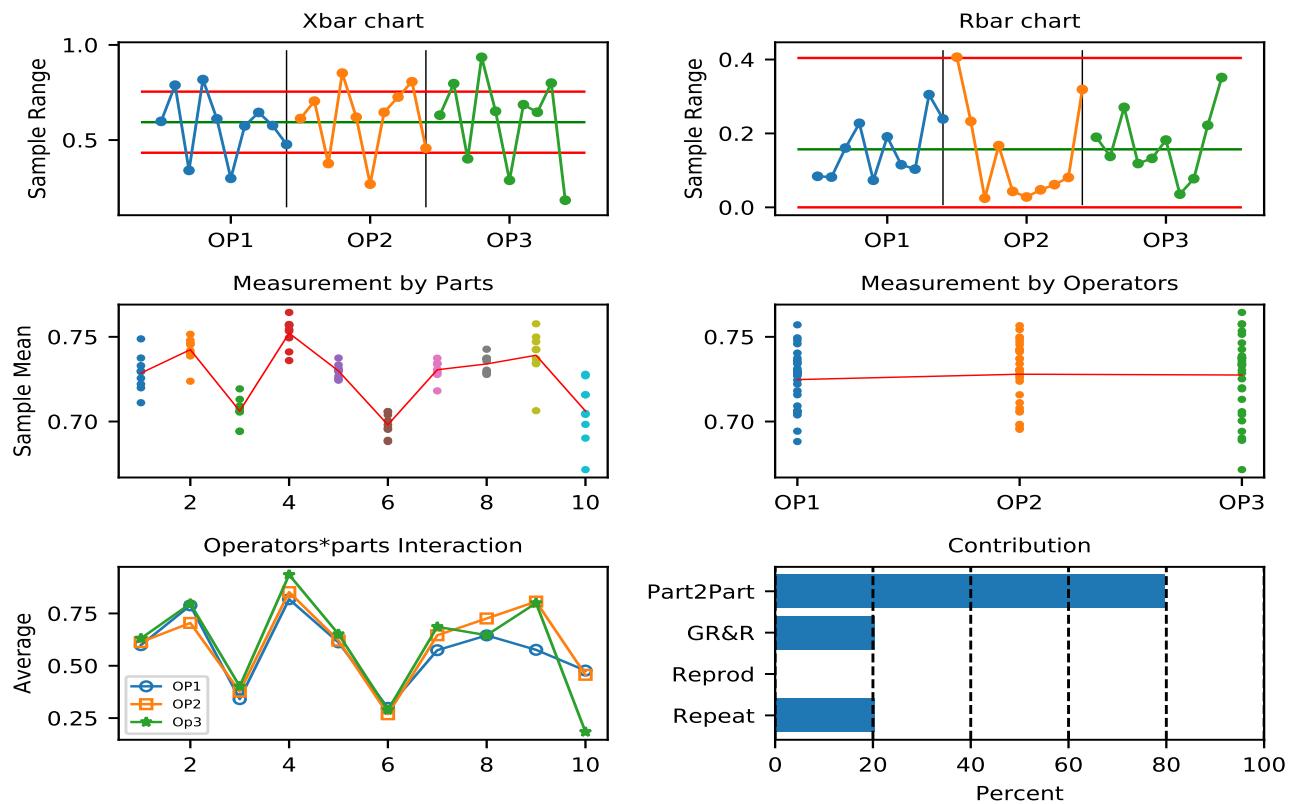
2.162 SFR_Center_H



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	360.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.010636369333333336	
Appraiser Variation(AV, Reproducibility)	0.0	
GRR	0.010636369333333336	
Part Variation(PV)	0.009717644444444434	
Total Variation(TV)	0.014407115122178888	
Precision/Tolerance Ratio	0.018	

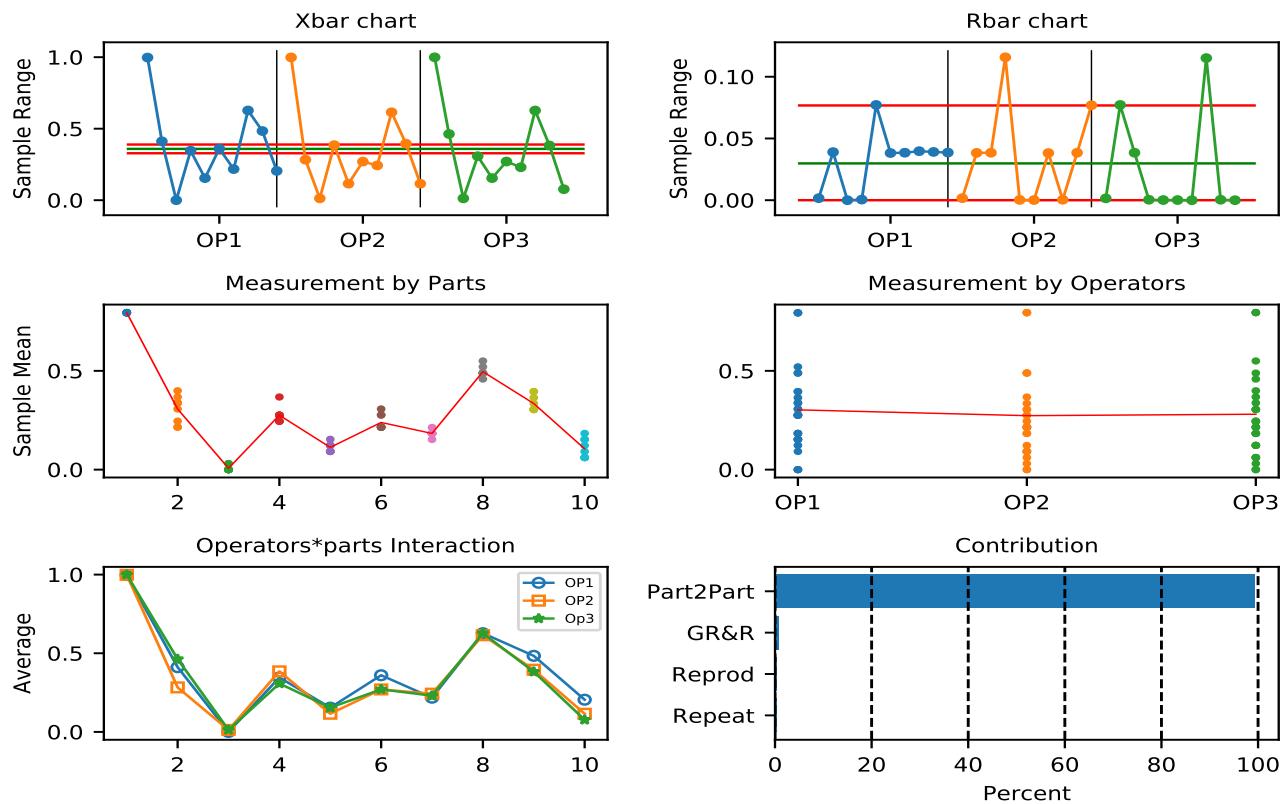
2.163 SFR_80IH_BR_V



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	360.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.008605986666666674	
Appraiser Variation(AV, Reproducibility)	0.0005354771056097057	
GRR	0.00862262965907018	
Part Variation(PV)	0.017023355555555553	
Total Variation(TV)	0.019082567348455523	
Precision/Tolerance Ratio	0.014	

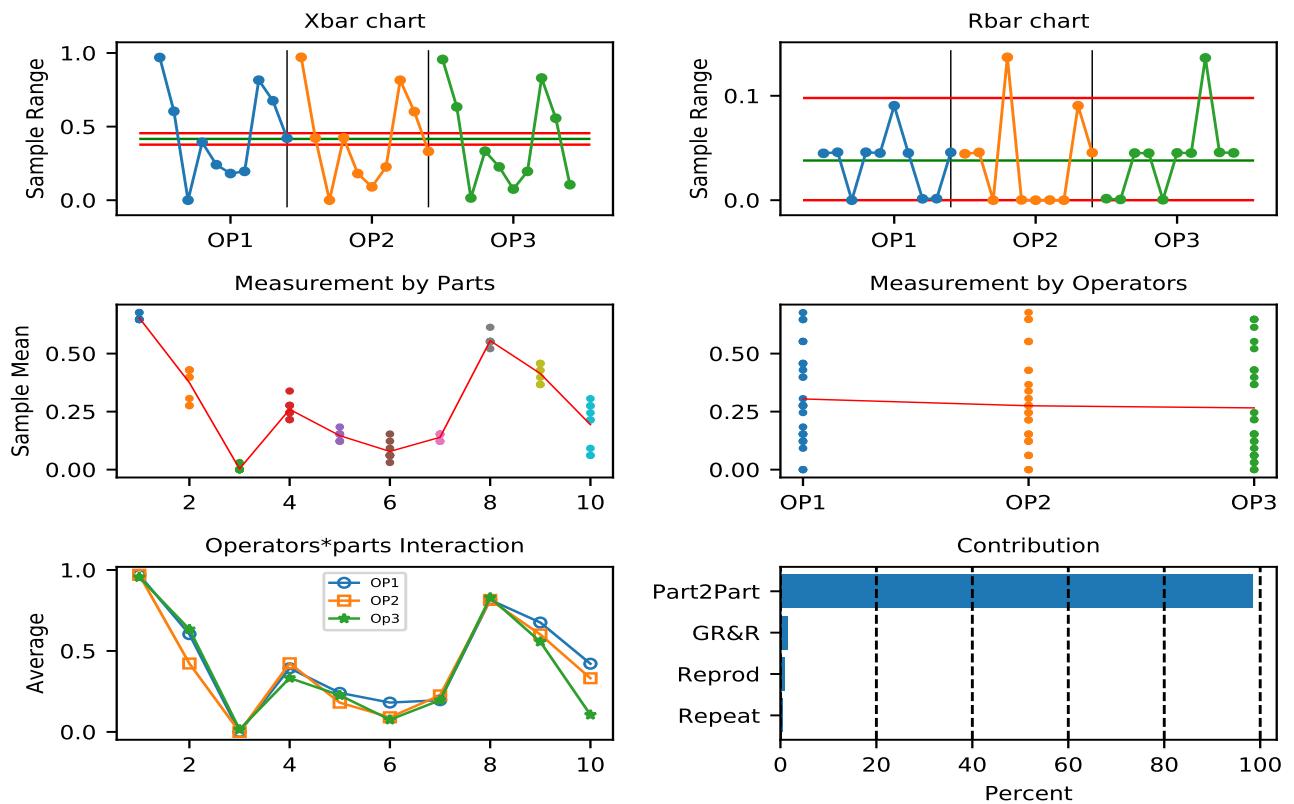
2.164 left_vert_theta



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	360.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.014009837333333329	
Appraiser Variation(AV, Reproducibility)	0.015173782192206383	
GRR	0.020652341468293128	
Part Variation(PV)	0.2477859511111111	
Total Variation(TV)	0.24864512216442317	
Precision/Tolerance Ratio	0.034	

2.165 right_vert_theta



Conclusion

Measurement Source	StdDev (SD)	Description
Upper limit(ULS)	360.0	
lower limit(LSL)	0.0	
Equipment Variation(EV, Repeatability)	0.015211130666666661	
Appraiser Variation(AV, Reproducibility)	0.01998744007251733	
GRR	0.02511725018410412	
Part Variation(PV)	0.20462632666666666	
Total Variation(TV)	0.20616209598736684	
Precision/Tolerance Ratio	0.042	