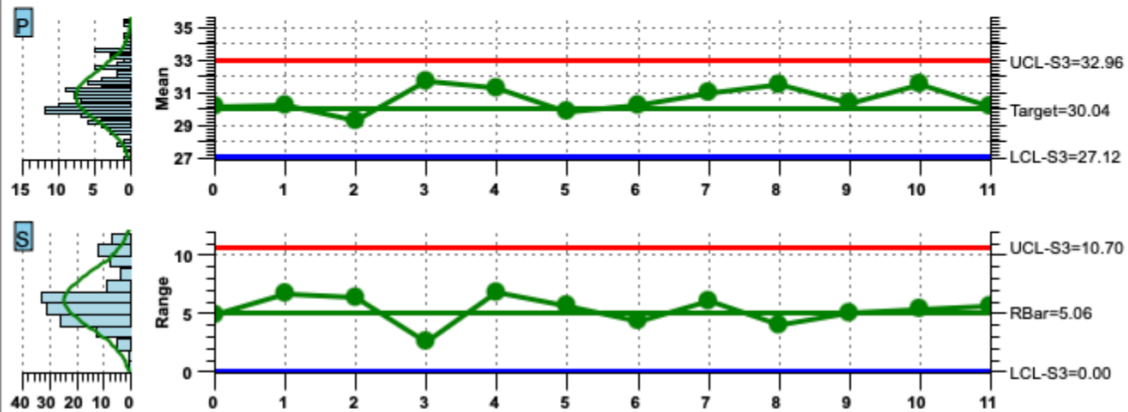


Title: XBar-R Example

Chart Type: XBar-R

Date: 2/15/2025, 4:36:09 AM

Time	4:36	4:51	5:06	5:21	5:36	5:51	6:06	6:21	6:36	6:51	7:06	7:21
Sample N°0	32.2	28.7	32.4	30.2	31.4	29.0	32.2	33.4	33.0	31.1	32.7	30.3
Sample N°1	27.4	31.4	26.4	31.0	26.5	27.5	31.2	27.4	33.7	32.1	33.0	31.5
Sample N°2	28.3	33.3	28.0	32.4	32.1	33.2	28.4	31.6	29.9	31.0	27.6	26.3
Sample N°3	30.9	26.6	32.8	32.8	33.0	29.8	27.9	33.1	31.2	27.1	32.9	31.9
Sample N°4	32.3	31.2	26.9	32.3	33.4	29.7	31.5	29.6	29.6	30.8	31.5	30.9
Mean	30.20	30.21	29.30	31.72	31.27	29.85	30.22	31.03	31.47	30.39	31.53	30.17
Range	4.9	6.7	6.3	2.6	6.8	5.7	4.4	6.0	4.0	5.0	5.4	5.6
Sum	151.0	151.0	146.5	158.6	156.4	149.2	151.1	155.2	157.3	152.0	157.7	150.9
Alarm	-	-	-	-	-	-	-	-	-	-	-	-
NOTES	Y	N	N	N	N	Y	N	N	N	N	Y	N



X
F

T
S

C

A
N

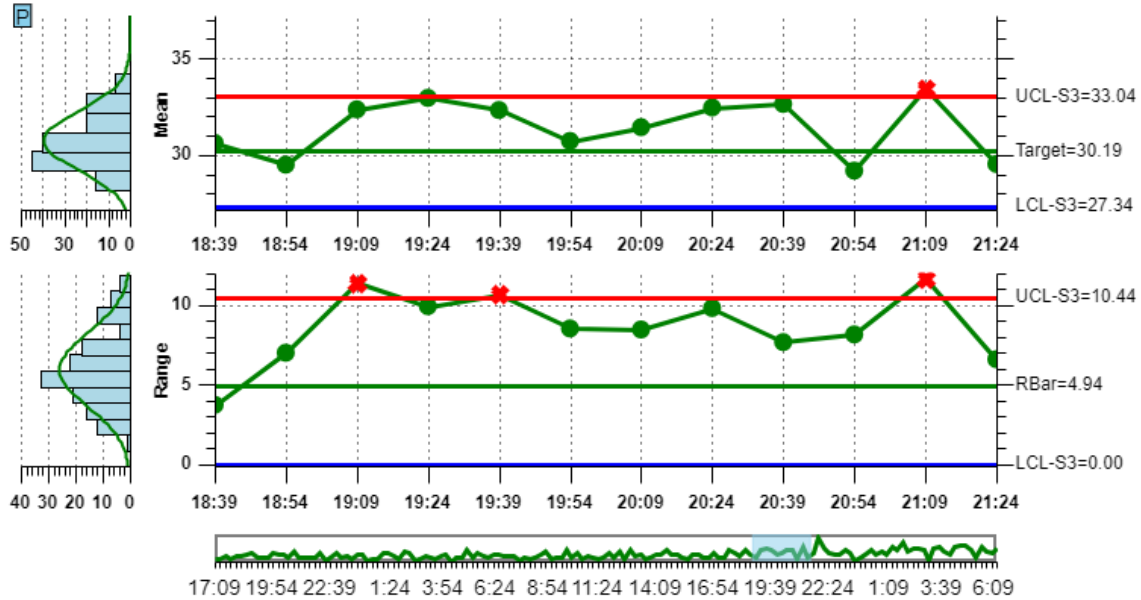
Z

Title: XBar-R Example

Chart Type: XBar-R

Date: 11/9/2019, 5:09:51 PM

Time	18:39	18:54	19:09	19:24	19:39	19:54	20:09	20:24	20:39	20:54	21:09	21:24
Mean	30.61	29.49	32.35	32.94	32.32	30.72	31.43	32.45	32.63	29.18	33.43	29.53
Range	3.71	6.98	11.36	9.90	10.66	8.50	8.44	9.78	7.64	8.13	11.62	6.57
Sum	153.1	147.5	161.8	164.7	161.6	153.6	157.1	162.2	163.2	145.9	167.2	147.6
Alarm	-	-	L	-	L	-	-	-	-	-	H	-
NOTES	N	N	N	Y	N	N	N	N	Y	N	N	N

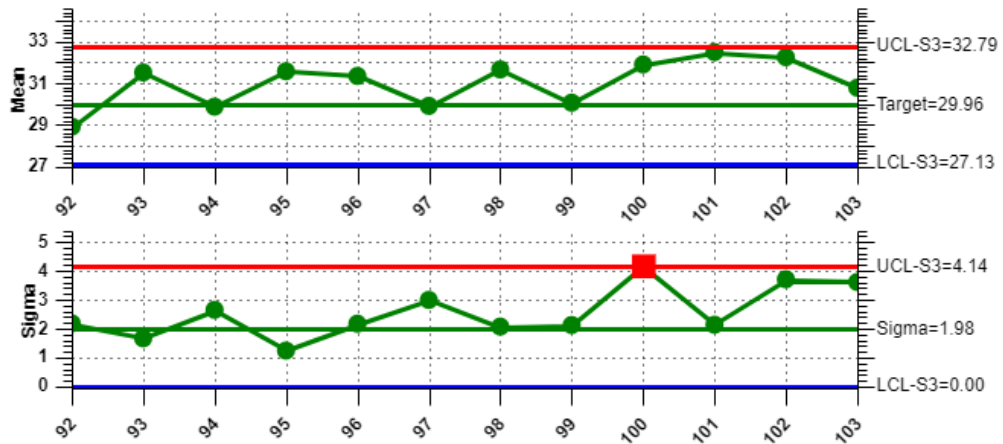
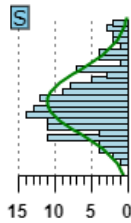
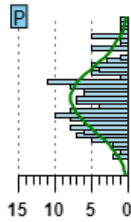


Title: XBar-Sigma Example

Chart Type: XBar-Sigma

Date: 10/31/19

Time	10:54	11:09	11:24	11:39	11:54	12:09	12:24	12:39	12:54	13:09	13:24	13:39
Mean	28.91	31.51	29.87	31.57	31.35	29.91	31.66	30.06	31.90	32.50	32.25	30.78
Sigma	2.18	1.66	2.65	1.24	2.17	2.99	2.07	2.12	4.18	2.13	3.71	3.61
Sum	144.5	157.6	149.3	157.9	156.7	149.5	158.3	150.3	159.5	162.5	161.2	153.9
Cpk	0.483	0.487	0.486	0.491	0.492	0.491	0.494	0.494	0.491	0.495	0.494	0.493
Cpm	0.584	0.587	0.586	0.590	0.591	0.589	0.592	0.591	0.589	0.591	0.590	0.587
Ppk	0.453	0.456	0.455	0.458	0.460	0.458	0.460	0.461	0.457	0.459	0.457	0.455
Alarm	-	-	-	-	-	-	-	-	- H	-	-	-
Notes	N	N	N	Y	N	N	N	N	Y	N	N	N



0

92

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Title: Levey-Jennings Example

Date: 10/31/19

Time

12:11 12:26 12:41

Sample N°0

28.9 33.5 33.6

Sample Value

28.9 33.5 33.6

Alarm

- - -

Notes

N N N

11/01/19 12:56:52

Levey-Jennings

Primary chart: Westgard Rule

#12 violation 1 of 1 greater than

2-sigma=34.696

Current Value=35.008

14:11 14:26 14:41

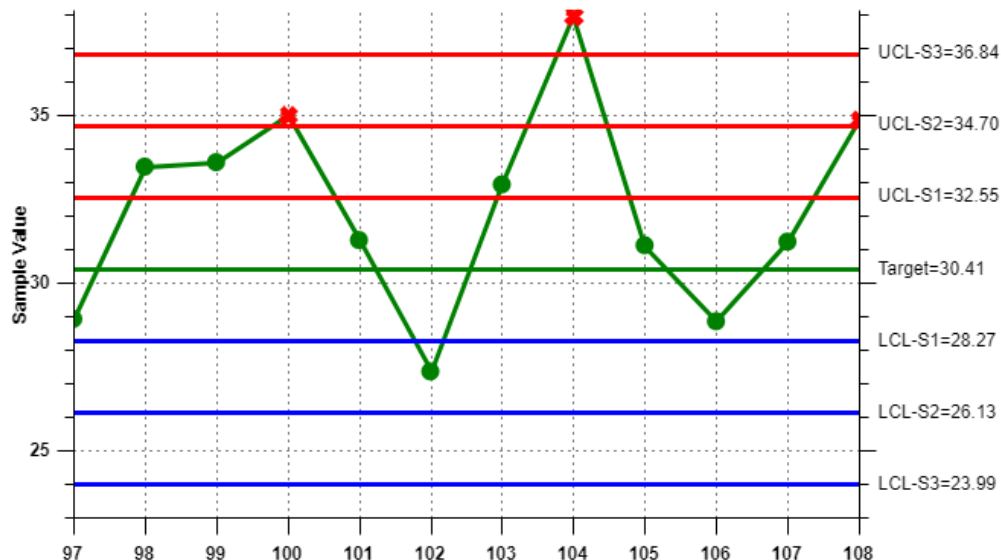
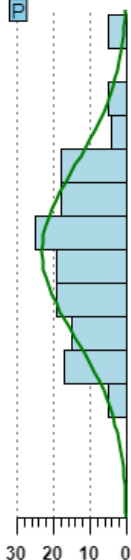
31.1 28.8 31.2

31.1 28.8 31.2

- - -

Y N N

P

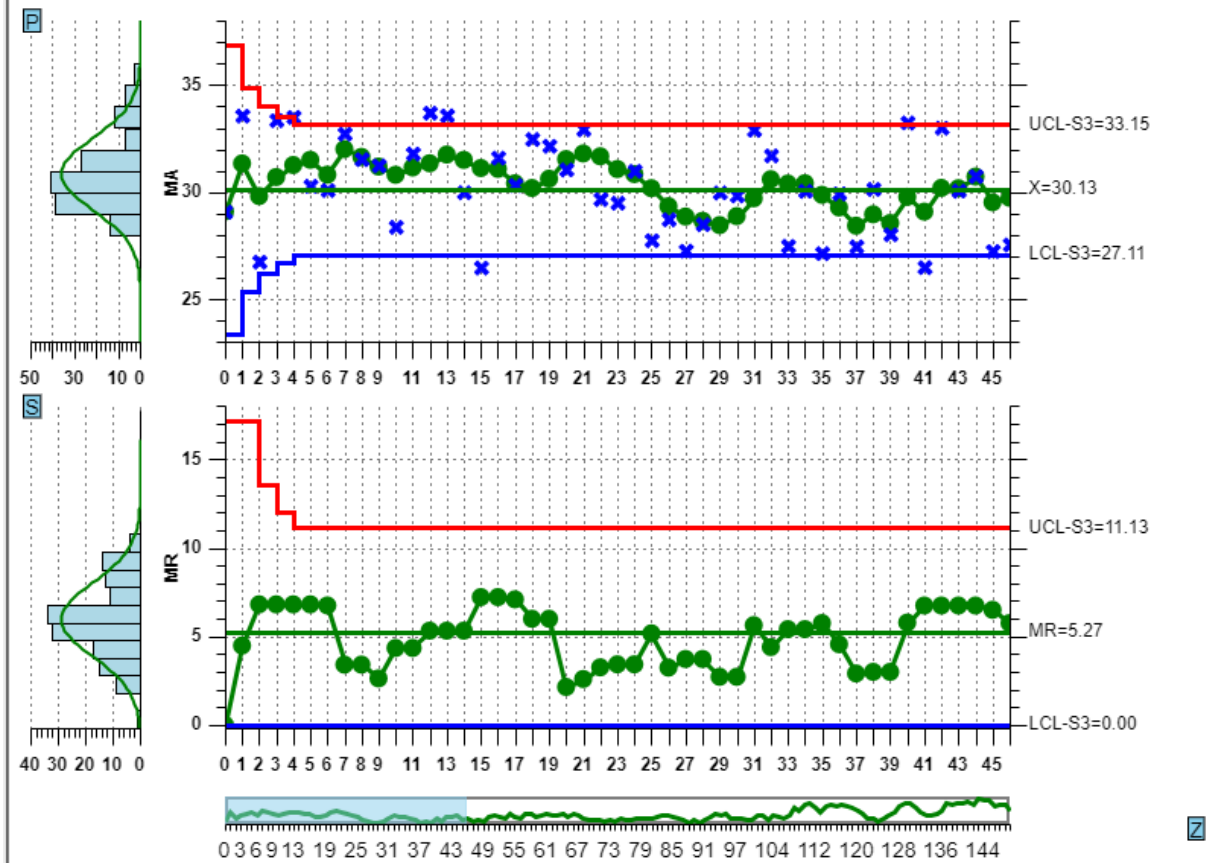


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97

138

Z

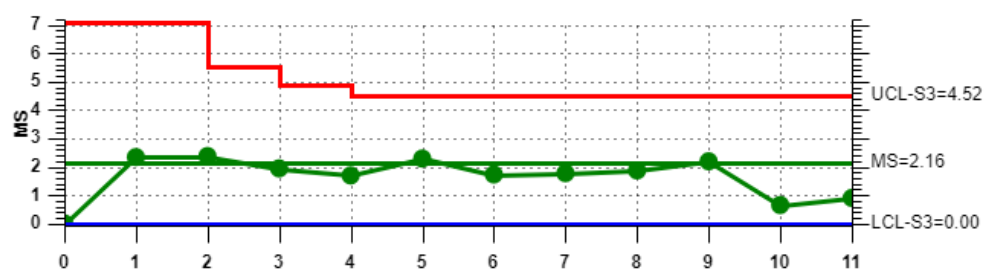
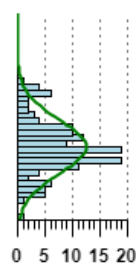
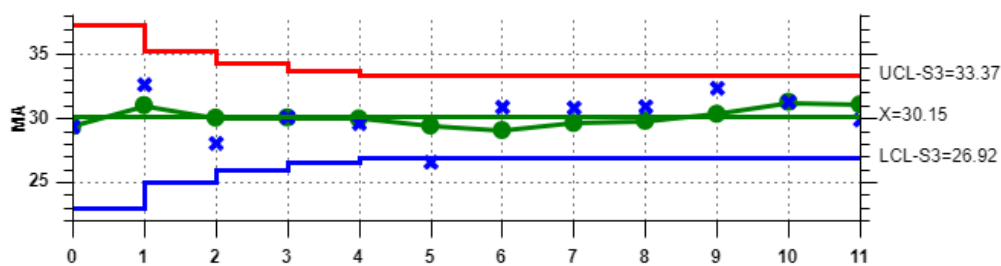
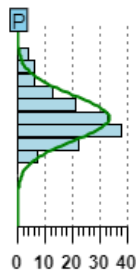


Title: MAMS Example

Chart Type: MAMS

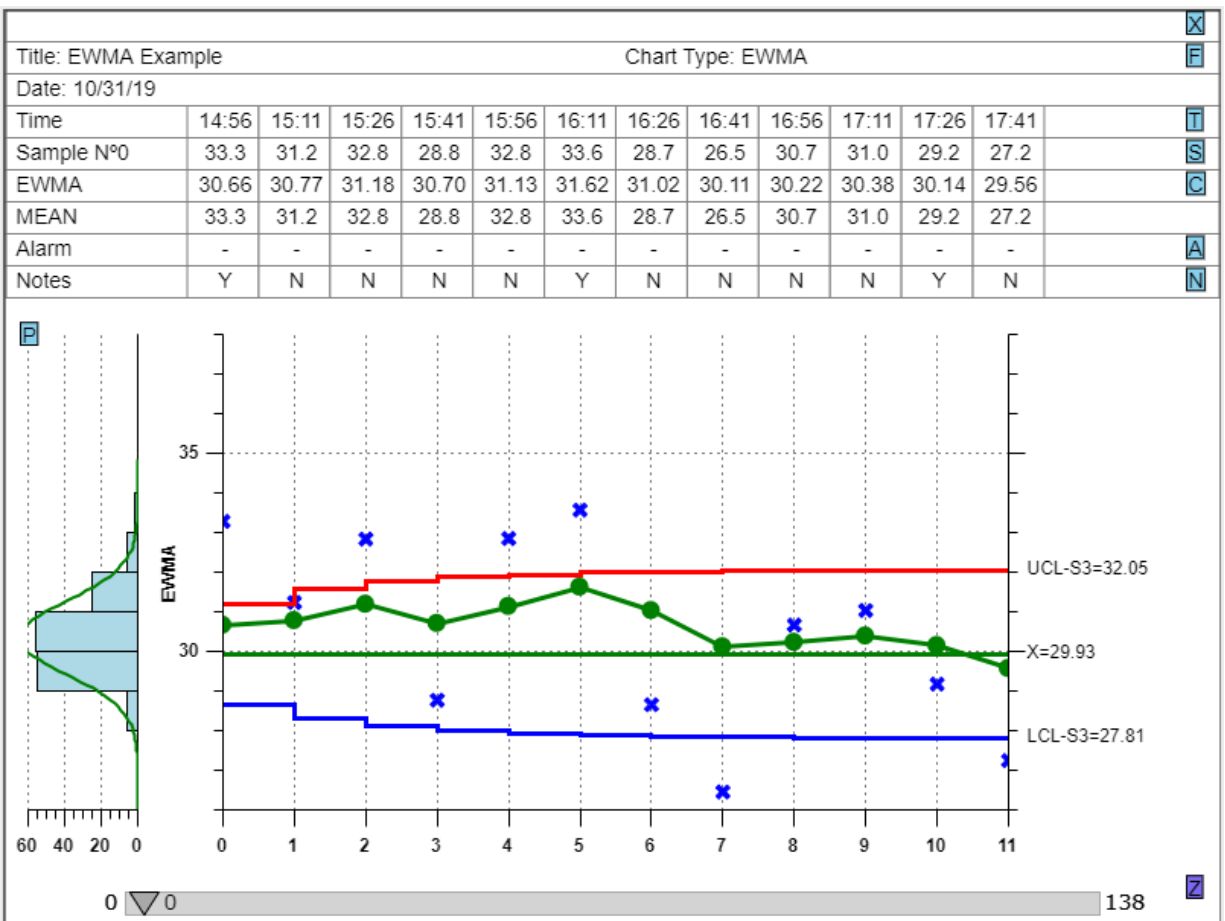
Date: 11/04/19

Time	15:26	15:41	15:56	16:11	16:26	16:41	16:56	17:11	17:26	17:41	17:56	18:11
Sample N°0	29.4	32.7	28.1	30.1	29.6	26.6	30.9	30.8	30.9	32.4	31.3	29.9
MA	29.36	31.01	30.03	30.05	29.96	29.41	29.06	29.61	29.78	30.33	31.27	31.07
MS	0.00	2.34	2.37	1.94	1.69	2.29	1.72	1.77	1.87	2.19	0.65	0.90
Alarm	-	-	-	-	-	-	-	-	-	-	-	-
Notes	Y	N	N	N	N	Y	N	N	N	N	Y	N



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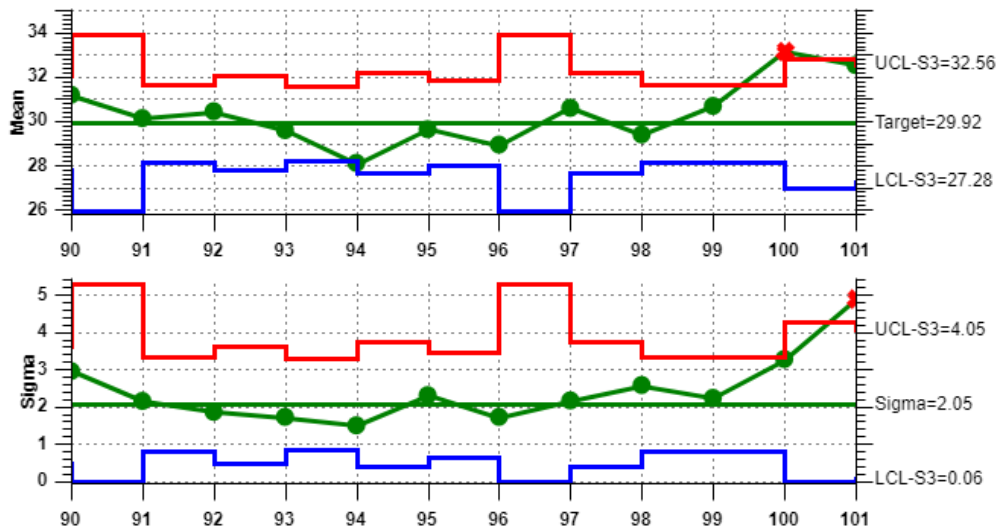
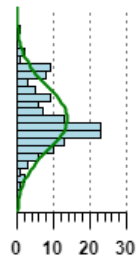
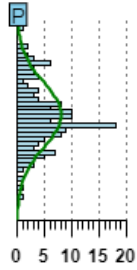


Title: XBar-Sigma Example

Chart Type: XBar-Sigma

Date: 11/04/19

Time	13:52	14:07	14:22	14:37	14:52	15:07	15:22	15:37	15:52	16:07	16:22	16:37
Mean	31.19	30.13	30.44	29.59	28.10	29.63	28.93	30.59	29.39	30.68	33.17	32.53
Sigma	2.95	2.14	1.85	1.72	1.49	2.30	1.72	2.16	2.57	2.23	3.27	4.90
Sum	94	392	274	414	225	326	87	245	382	399	166	195
Alarm	-	-	-	-	-	-	-	-	-	-	H	L
Notes	N	N	N	N	N	N	N	N	N	N	N	N

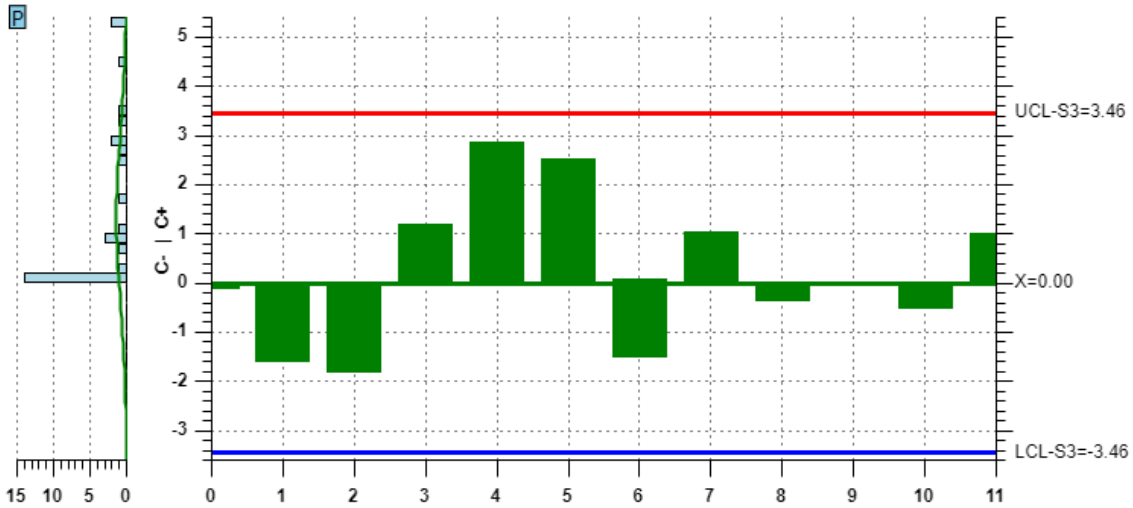


Title: Cusum Example

Chart Type: Cusum

Date: 10/31/19

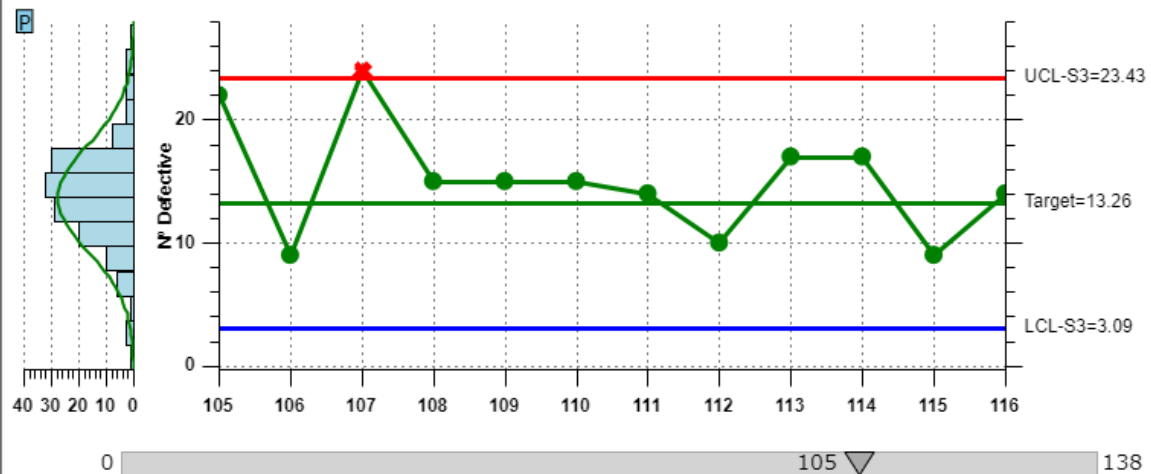
Time	15:01	15:16	15:31	15:46	16:01	16:16	16:31	16:46	17:01	17:16	17:31	17:46
Sample N°0	9.45	7.99	9.29	11.66	12.16	10.18	8.04	11.46	9.20	10.34	9.03	11.47
C+	0.00	0.00	0.00	1.16	2.82	2.50	0.04	1.00	0.00	0.00	0.00	0.97
C-	-0.05	-1.56	-1.77	0.00	0.00	0.00	-1.46	0.00	-0.30	0.00	-0.47	0.00
MEAN	9.45	7.99	9.29	11.66	12.16	10.18	8.04	11.46	9.20	10.34	9.03	11.47
Alarm	-	-	-	-	-	-	-	-	-	-	-	-
Notes	N	N	N	N	N	N	N	N	N	N	N	N

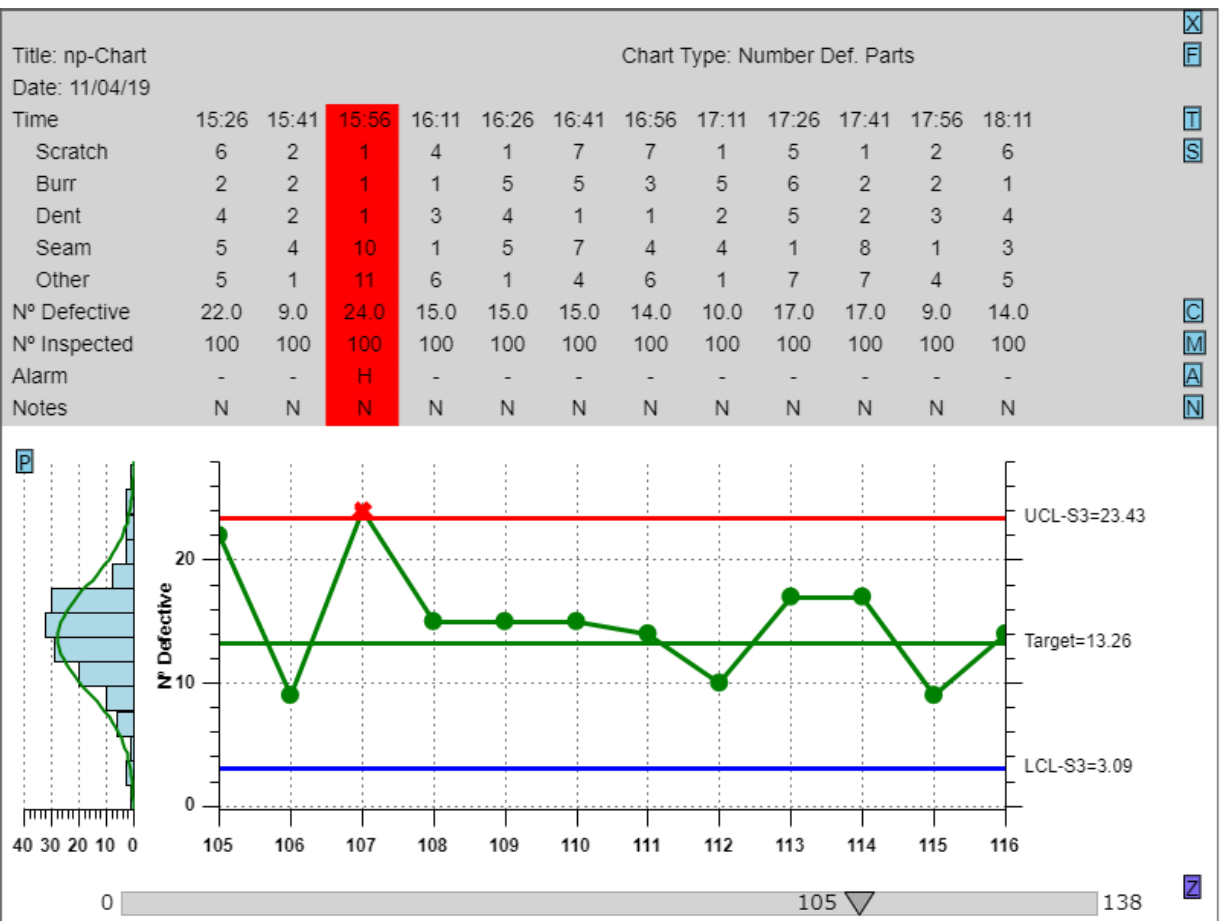


0 ▽ 0

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Title: np-Chart	Chart Type: Number Def. Parts												X
Date: 11/04/19													F
Time	15:26	15:41	15:56	16:11	16:26	16:41	16:56	17:11	17:26	17:41	17:56	18:11	T
Scratch	6	2	1	4	1	7	7	1	5	1	2	6	S
Burr	2	2	1	1	5	5	3	5	6	2	2	1	
Dent	4	2	1	3	4	1	1	2	5	2	3	4	
Seam	5	4	10	1	5	7	4	4	1	8	1	3	
Other	5	1	11	6	1	4	6	1	7	7	4	5	
N° Defective	22.0	9.0	24.0	15.0	15.0	15.0	14.0	10.0	17.0	17.0	9.0	14.0	C
N° Inspected	100	100	100	100	100	100	100	100	100	100	100	100	M
Alarm	-	-	H	-	-	-	-	-	-	-	-	-	A
Notes	N	N	N	N	N	N	N	N	N	N	N	N	N





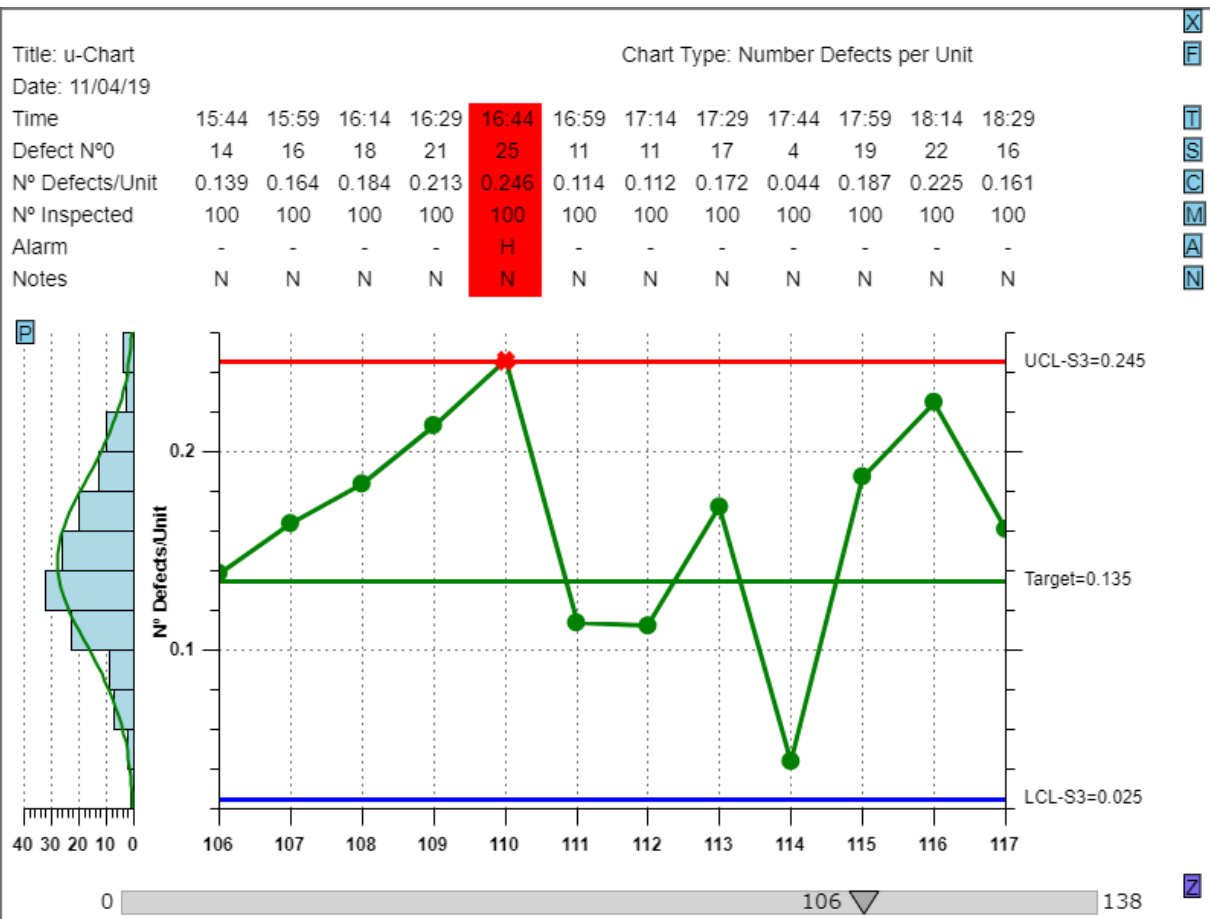
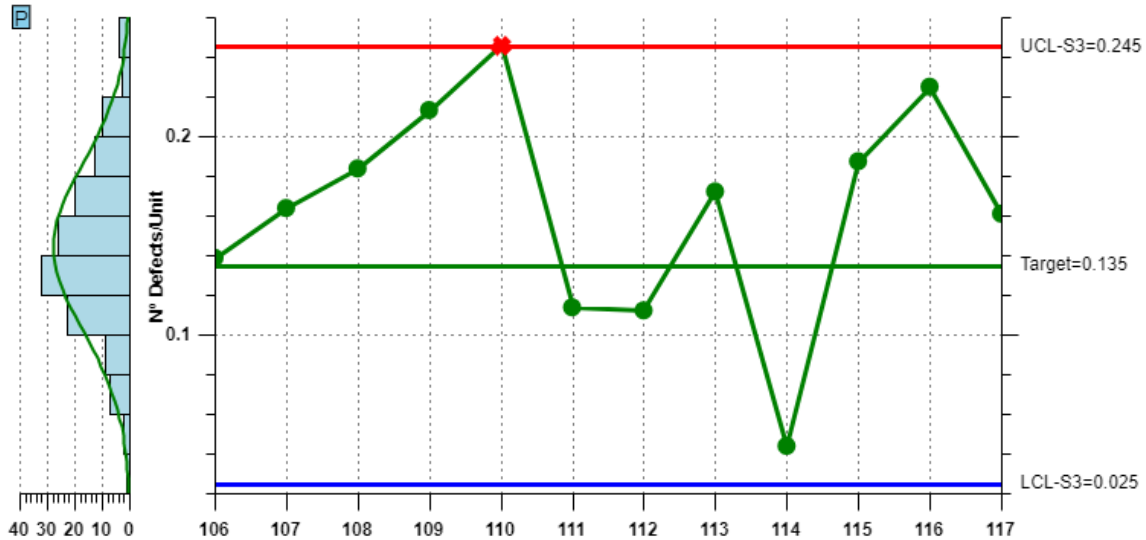


Chart Type: Number Defects per Unit

Date: 11/04/19

[illegible]

0

106

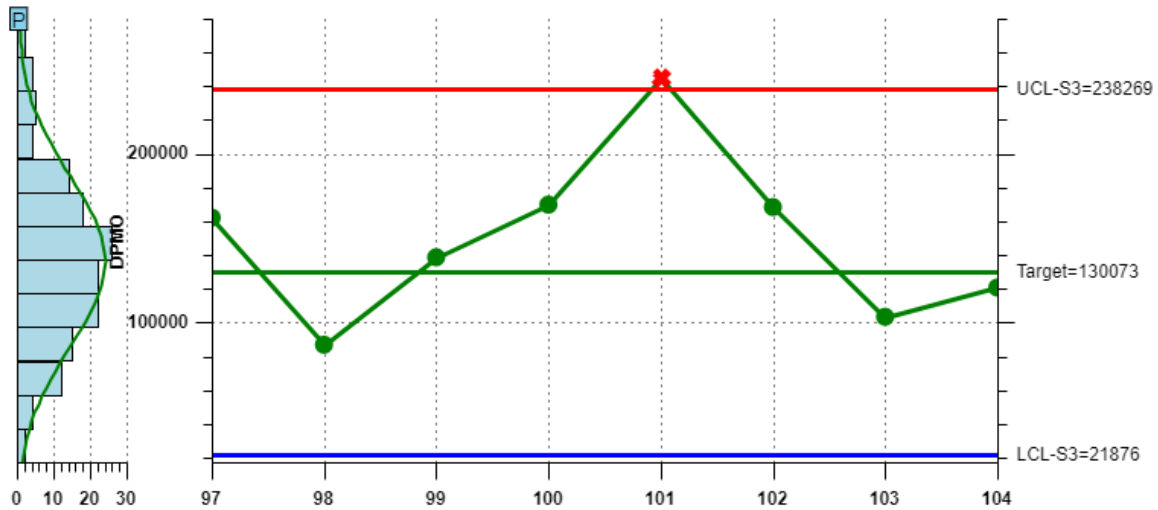
138

Title: DPMO-Chart

Chart Type: Defects per Million

Date: 11/04/19

Time	13:30	13:45	14:00	14:15	14:30	14:45	15:00	15:15
Defect N°0	16	9	14	17	25	17	10	12
N° Defects	16.2	8.7	13.9	17.0	24.5	16.8	10.3	12.1
DPMO	162176	86919	138715	169859	245237	168443	103467	120789
N° Inspected	100	100	100	100	100	100	100	100
Alarm	-	-	-	-	H	-	-	-
Notes	N	N	N	N	N	N	N	N



0

97

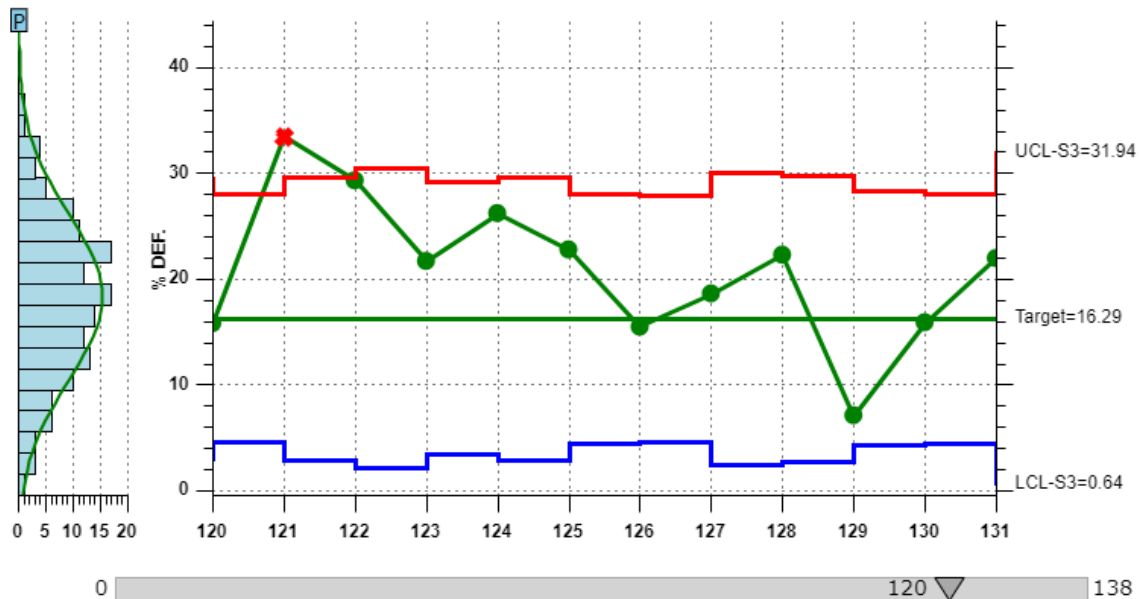
142

Title: p-Chart (Percentage)

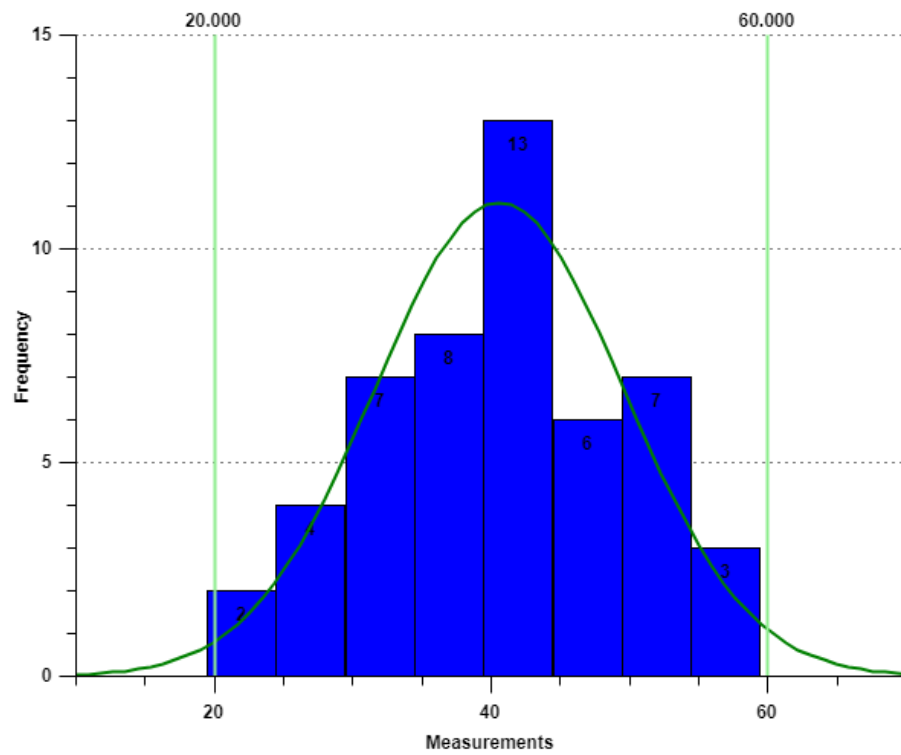
Chart Type: Percentage Def. Parts

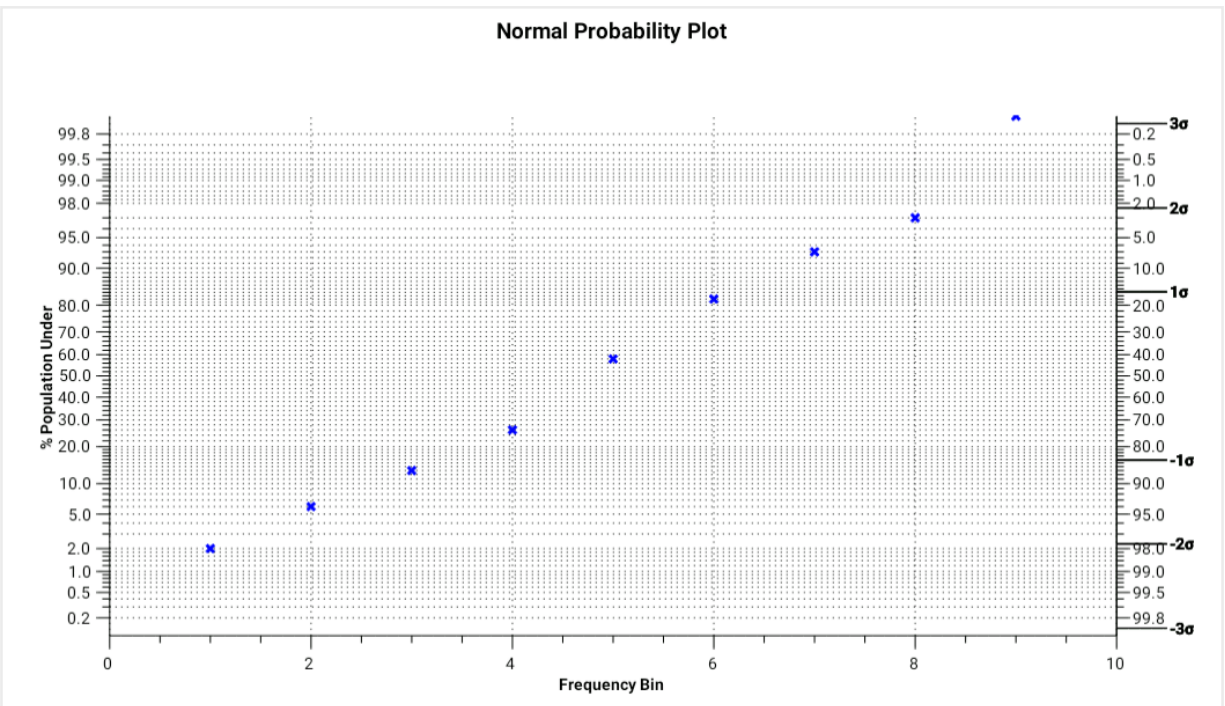
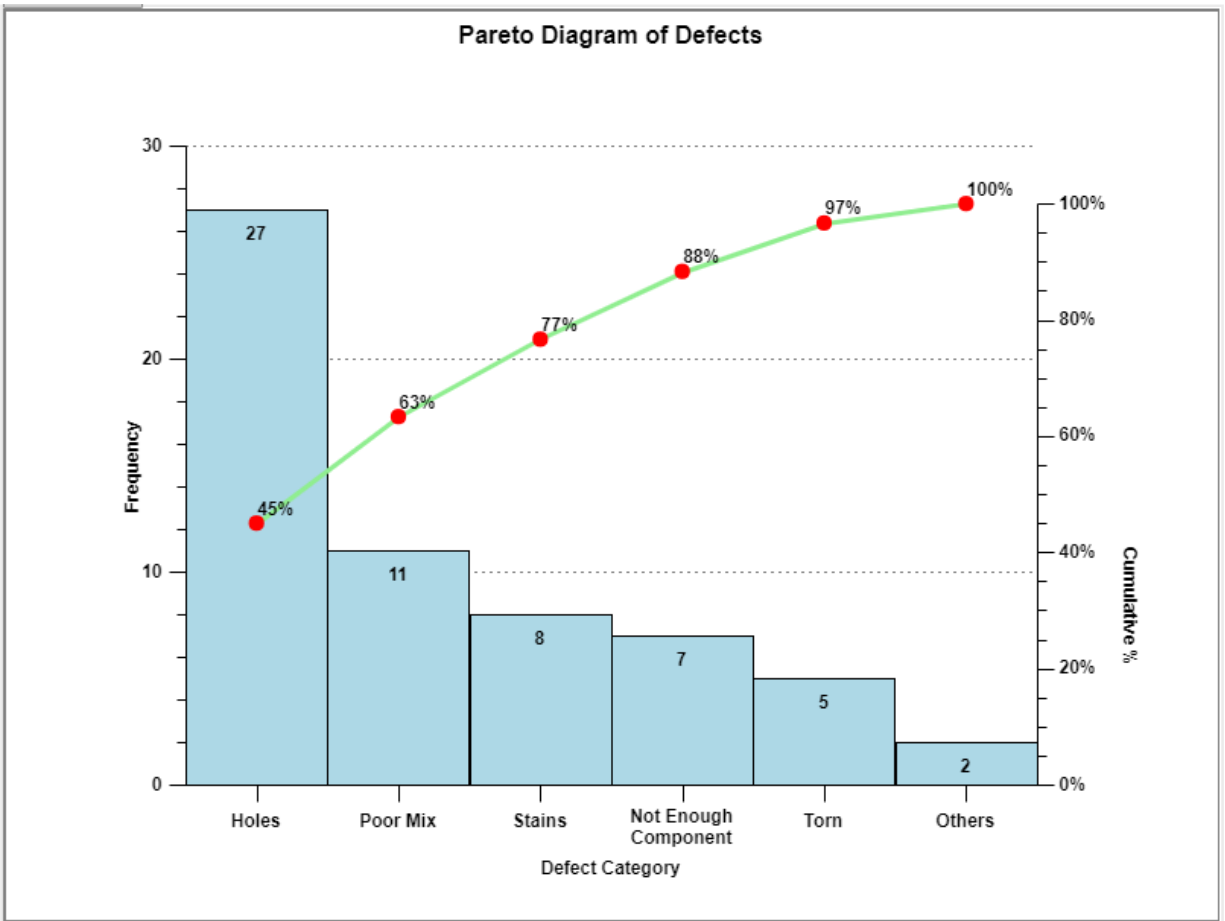
Date: 11/04/19

Time	20:04	20:19	20:34	20:49	21:04	21:19	21:34	21:49	22:04	22:19	22:34	22:49
Defect N°	15	23	19	17	19	21	14	12	15	6	14	12
% DEF.	15.8	33.4	29.3	21.7	26.2	22.8	15.5	18.6	22.3	7.1	15.9	21.9
N° Inspected	89	69	61	74	69	88	91	65	67	85	88	50
Alarm	-	H	-	-	-	-	-	-	-	-	-	-
Notes	N	N	N	N	N	N	N	N	N	N	N	N



Frequency Histogram of Selected Data



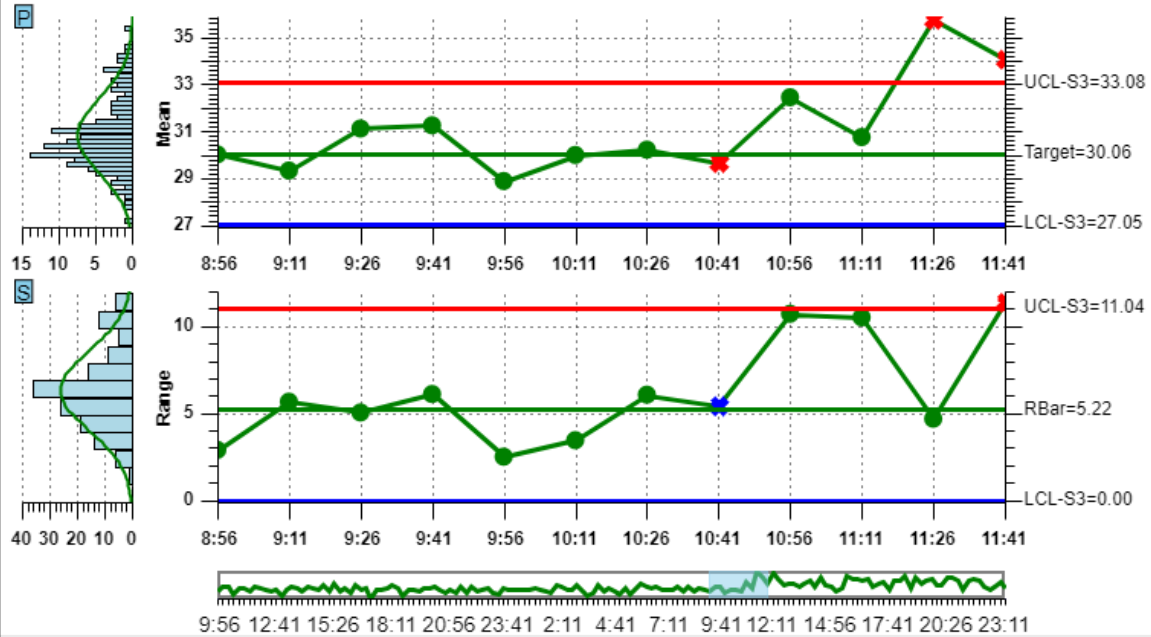


Title: XBar-R Example

Chart Type: XBar-R

Date: 10/31/2019, 9:56:51 AM

Time	8:56	9:11	9:26	9:41	9:56	10:11	10:26	10:41	10:56	11:11	11:26	11:41
Mean	30.01	29.32	31.11	31.25	28.88	29.98	30.21	29.67	32.44	30.75	35.76	34.07
Range	2.9	5.7	5.0	6.1	2.5	3.4	6.1	5.4	10.7	10.5	4.7	11.4
Sum	150.1	146.6	155.6	156.2	144.4	149.9	151.1	148.4	162.2	153.7	178.8	170.3
NOTES	N	N	N	Y	N	N	N	N	Y	N	N	N

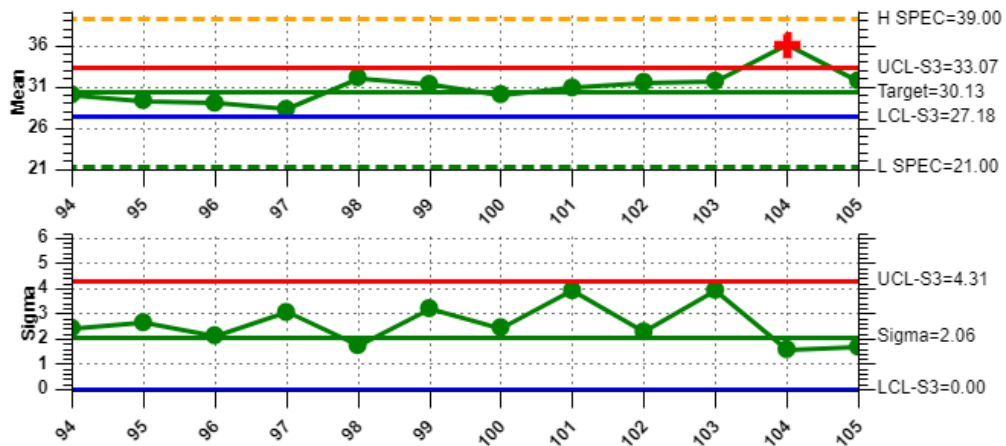
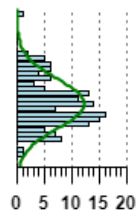
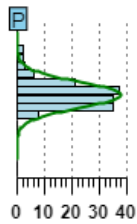


Title: XBar-Sigma Example

Chart Type: XBar-Sigma

Date: 11/04/19

Time	16:04	16:19	16:34	16:49	17:04	17:19	17:34	17:49	18:04	18:19	18:34	18:49
Mean	29.83	29.14	28.82	28.06	31.92	31.09	29.86	30.67	31.35	31.48	35.90	31.54
Sigma	2.43	2.65	2.13	3.05	1.74	3.21	2.45	3.92	2.28	3.93	1.58	1.68
Sum	149.2	145.7	144.1	140.3	159.6	155.5	149.3	153.4	156.7	157.4	179.5	157.7
Cpk	1.390	1.386	1.389	1.386	1.386	1.380	1.375	1.363	1.360	1.345	1.341	1.341
Cpm	1.411	1.406	1.407	1.402	1.404	1.399	1.394	1.382	1.380	1.367	1.368	1.369
Ppk	1.377	1.375	1.376	1.368	1.364	1.356	1.357	1.345	1.342	1.328	1.283	1.283
Alarm	-	-	-	-	-	-	-	-	-	-	H	-
Notes	N	Y	N	N	N	N	Y	N	N	N	N	Y



0

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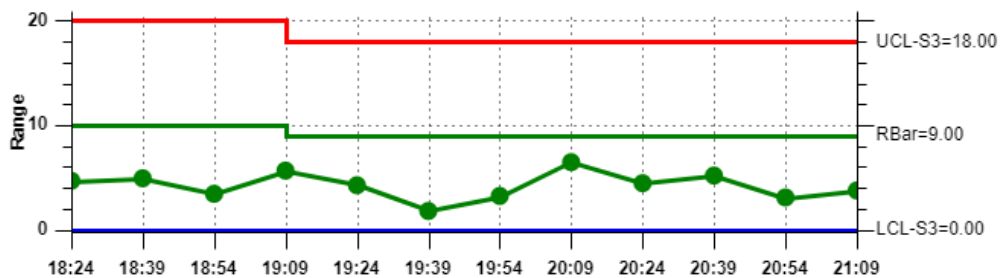
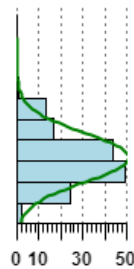
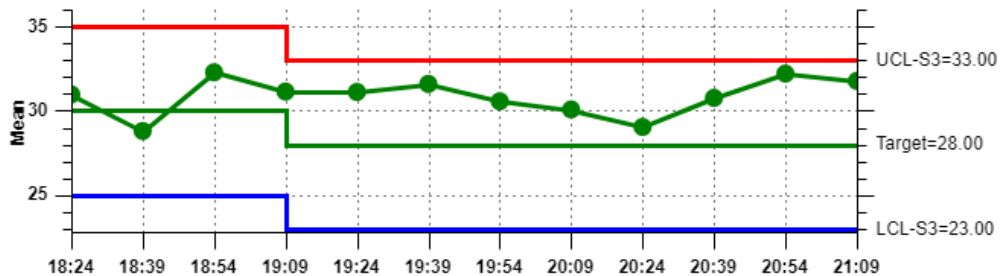
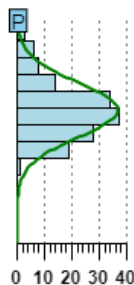
138

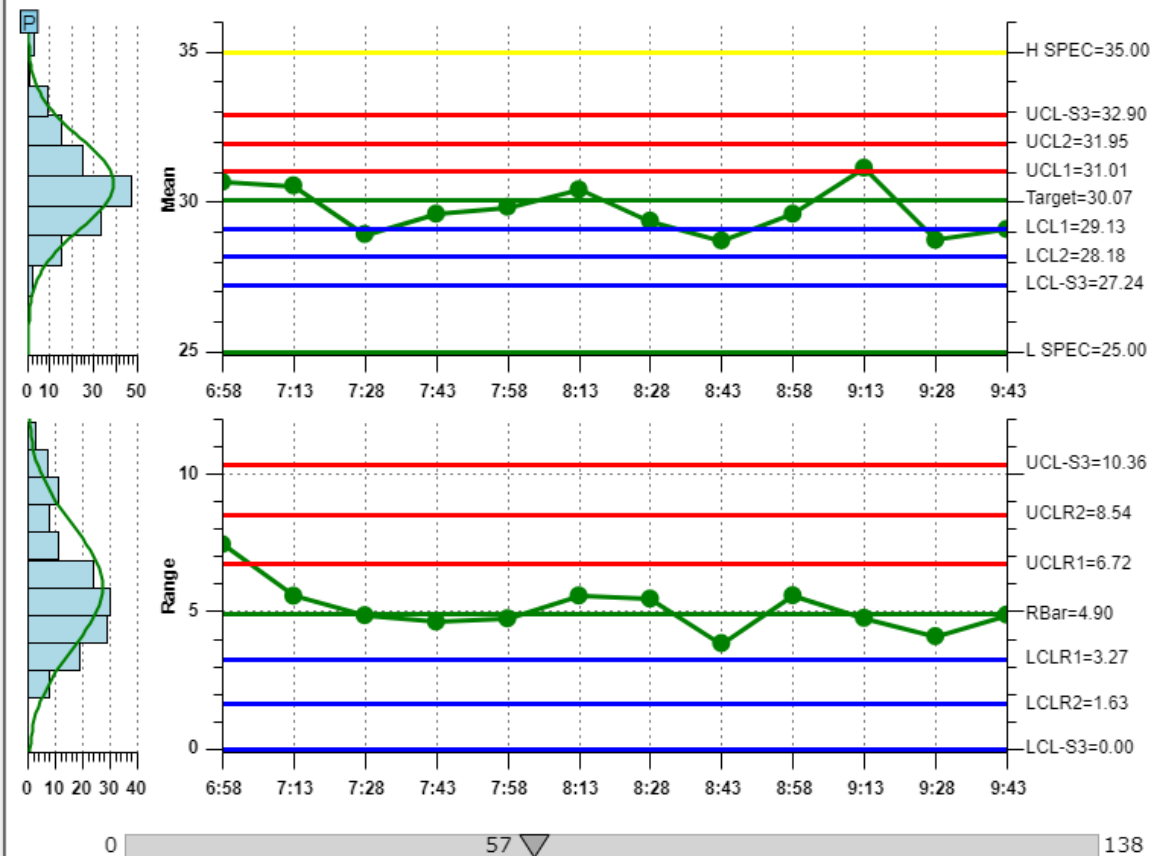
Title: XBar-R Variable Limits

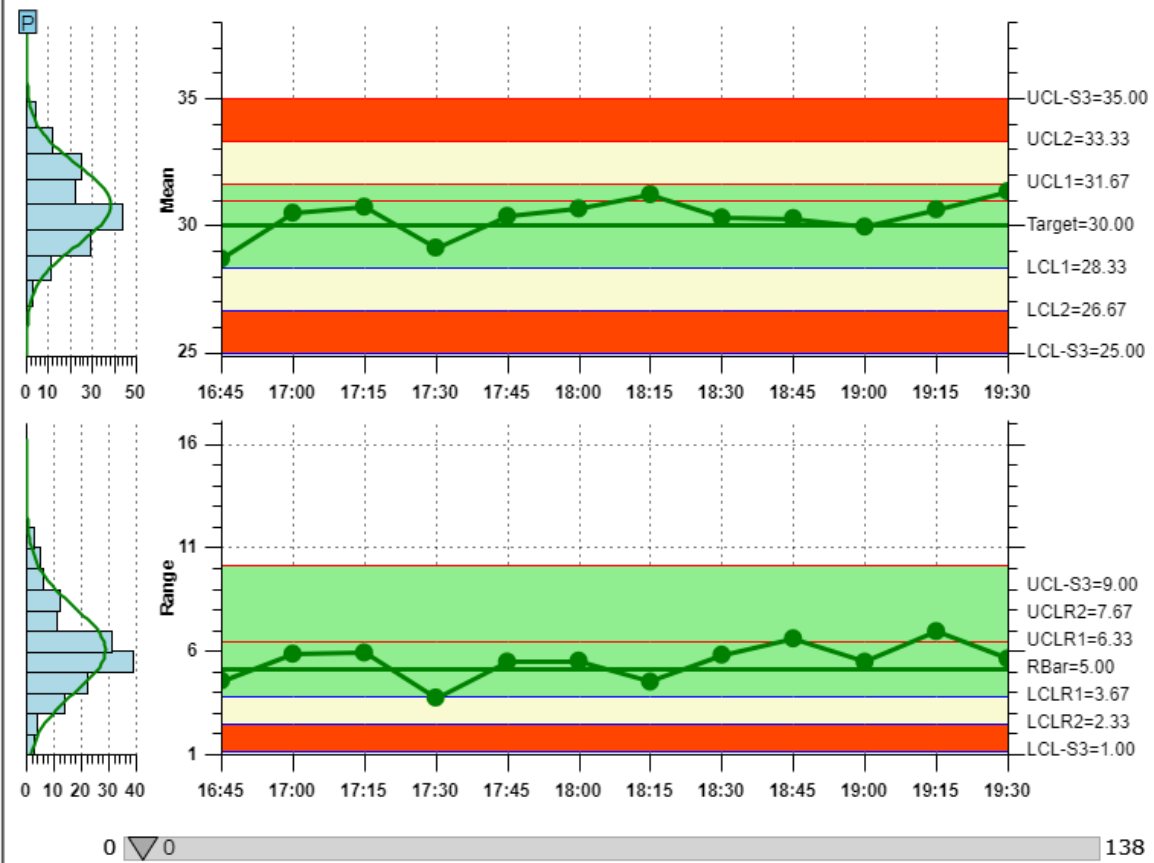
Chart Type: XBar-R Variable Limits

Date: 11/4/2019, 4:39:21 PM

Time	18:24	18:39	18:54	19:09	19:24	19:39	19:54	20:09	20:24	20:39	20:54	21:09
Mean	30.97	28.80	32.28	31.14	31.11	31.59	30.56	30.08	29.04	30.76	32.20	31.77
Range	4.7	4.9	3.4	5.6	4.2	1.8	3.2	6.4	4.4	5.2	3.1	3.7
Sum	154.8	144.0	161.4	155.7	155.6	158.0	152.8	150.4	145.2	153.8	161.0	158.8
NOTES	N	N	N	N	N	N	N	N	N	N	N	N







Title: XBar-R Example

Chart Type: WECO + Supp.

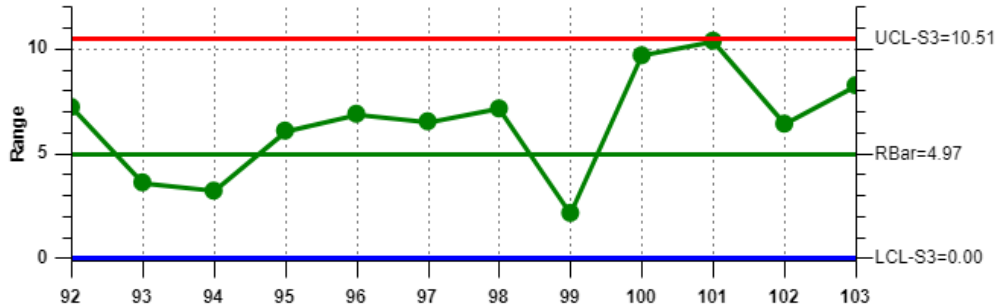
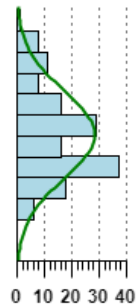
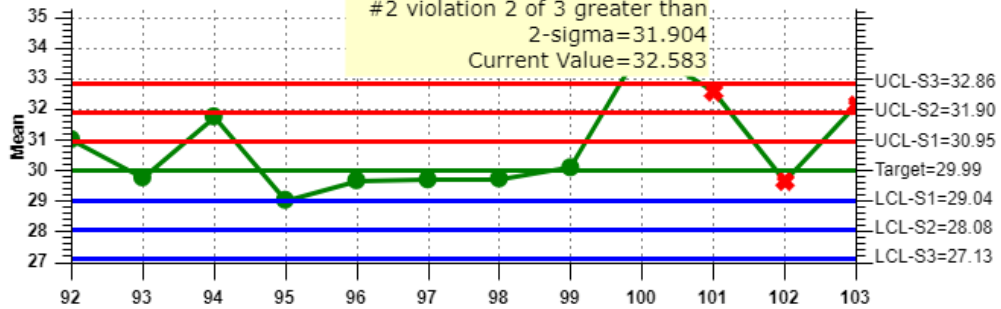
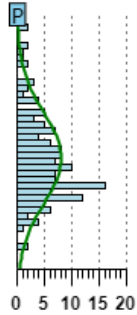
Date: 11/04/19

Time 17:05 17:20 17:35 17:50 18:05 18:20 18:35 18:50 19:05 19:20 19:35 19:50

Alarm - - - - - - - - H H H H

Notes N N N Y 11/05/19 19:20:31 N N N

Primary chart: WECO+SUPP. Rule
#2 violation 2 of 3 greater than
2-sigma=31.904
Current Value=32.583

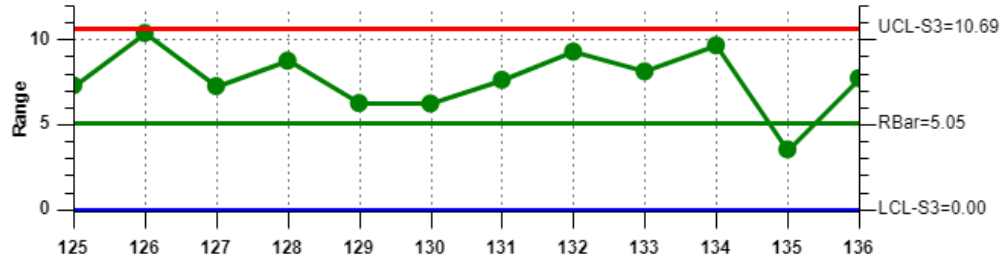
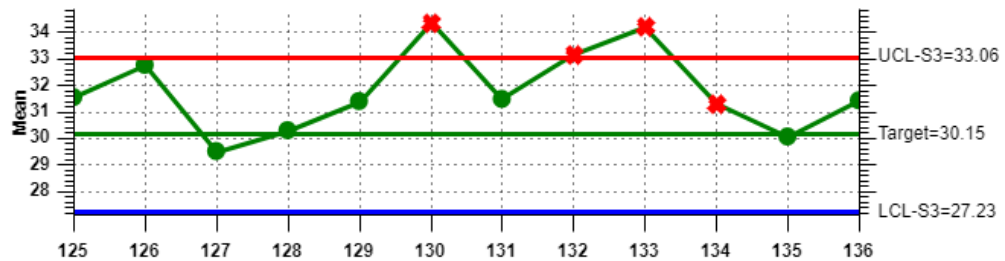
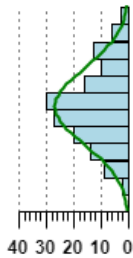
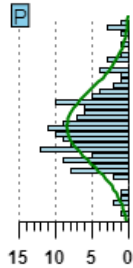


Title: XBar-R Example

Chart Type: AIAG Rules

Date: 11/04/19

Time	1:23	1:38	1:53				11/06/19 03:38:04	3:38	3:53	4:08
Mean	31.53	32.75	29.50				Primary chart: AIAG Rule #4	1.30	30.05	31.41
Range	7.3	10.4	7.2				violation 7 of 7 greater than center line=30.146	9.6	3.5	7.7
Sum	157.7	163.7	147.5				Current Value=31.296	56.5	150.3	157.1
Alarm	-	-	-	-	-	H	-	H	H	-
Notes	Y	N	N	N	N	Y	N	N	N	Y



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Title: XBar-R Example

Chart Type: Westgard Rules

Date: 11/04/19

Time

16:55 17:10 17:25 17:40 17:55 18:10 18:25 18:40 18:55 19:10 19:25 19:40

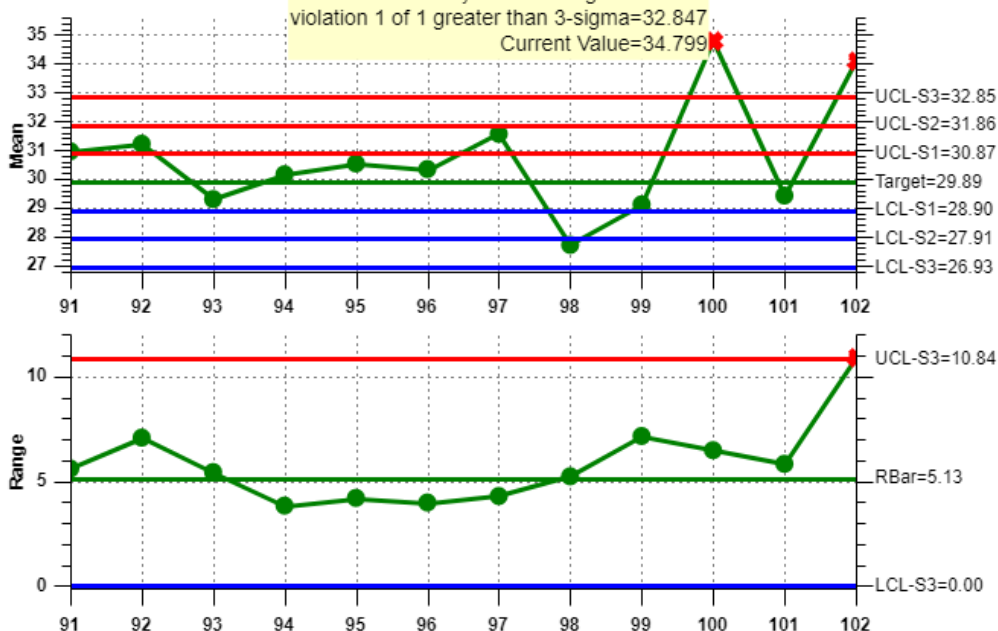
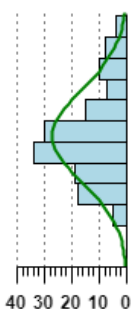
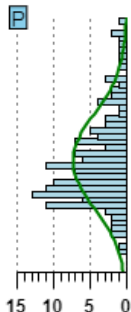
Alarm

- - - - - - - - - H - H

Notes

N N N N 11/05/19 19:10:02 Y N N

P



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