Product/Process Change Notification

Initiation Date	12-OCT-2022	**Notification No.**	20221006
Implementation Date	TBD	**Initiator's Name**	Johanns Ocaba
Beginning Date Code of Implemented Change			TBD

CHANGE DESCRIPTION:

Knowles Electronics has qualified Carrier and Cap for FB Microphone Assemblies from internal supplier. Parts meets specification. There is no change in fit, form and functions.

Please continue to work with your local sales manager if you have questions or concerns related to this product change notification.

MATERIAL AFFECTED:

Part Number	Description
FB-174	INTERFACE CAP
FB-175	CARRIER BBN ASSEMBLY

MODELS AFFECTED:

Part Number	Description
VEK-H-30320-000	MICROPHONE

MATERIAL INFORMATION

PN	Material
FB-174	RTP 683 HB ABS(ABS+Elecrtiplast 25%)
FB-175	ABS 121H Black

MATERIAL PHOTOS

PN	CURRENT	NEW
FB-174		
FB-175		

SUPPORT INFORMATION:

Knowles Qualification Plan Number: R-P-21341
Below parts were used as Qualification representatives. The result of the qualification of this representative is the basis in qualifying the rest of the affected models.

Part Number	Description
FB-174	INTERFACE CAP
FB-175	CARRIER BBN ASSEMBLY

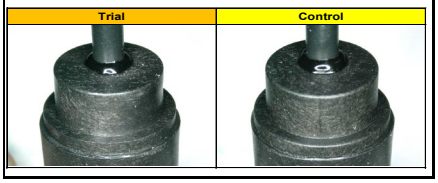
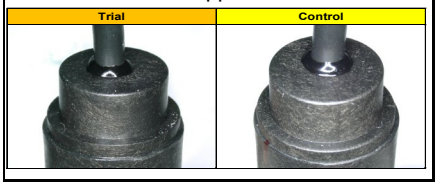
Finished Goods Part Number	Part Description
VEK-H-30320-000	BBN MICROPHONE

RELIABILITY TEST:

SUMMARY OF TEST SUITE:

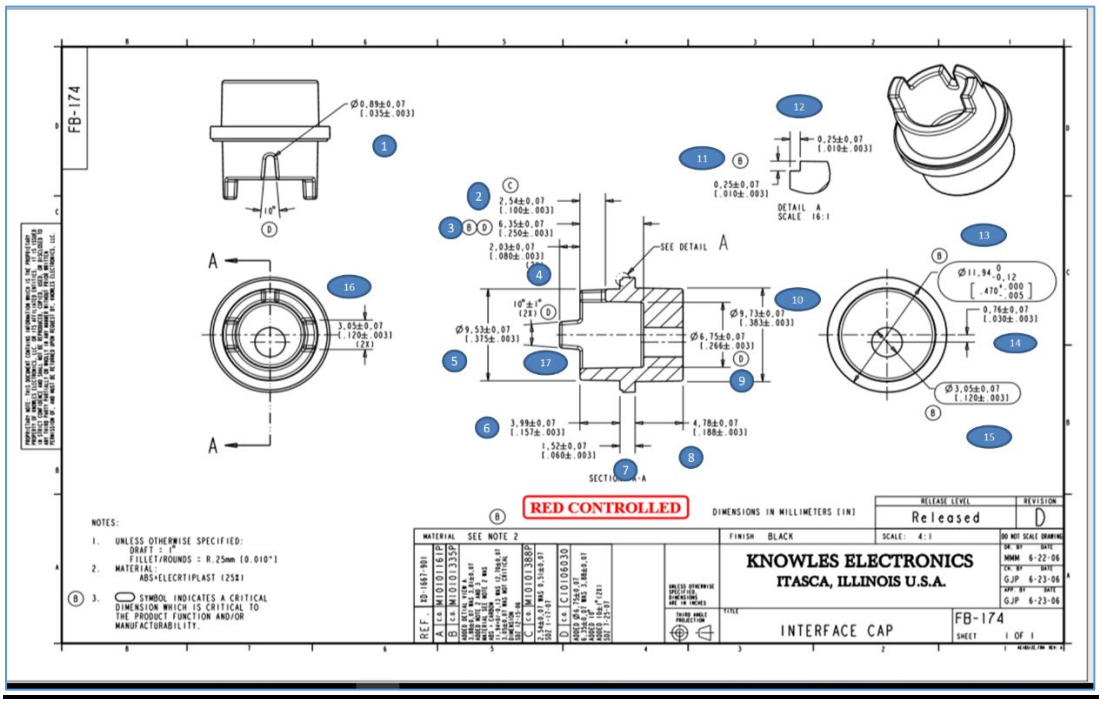
Item	Test item	Test condition	Acceptance Criteria	Sample size	Result
1	Cable wire and FB-174 (interface cap) pull test	Room temperature. Speed = 2.5mm/min Hold cable and Cap, pull to 100N for 1min.	No mechanical damage.	Control 5 Trial 5	PASS (See Appendix A)
2	Cable wire and FB-175 (carrier) pull test	Room temperature. Speed = 2.5mm/min Hold cable and Carrier, pull to 100N for 1min.	No mechanical damage.	Control 5 Trial 5	PASS (See Appendix A)

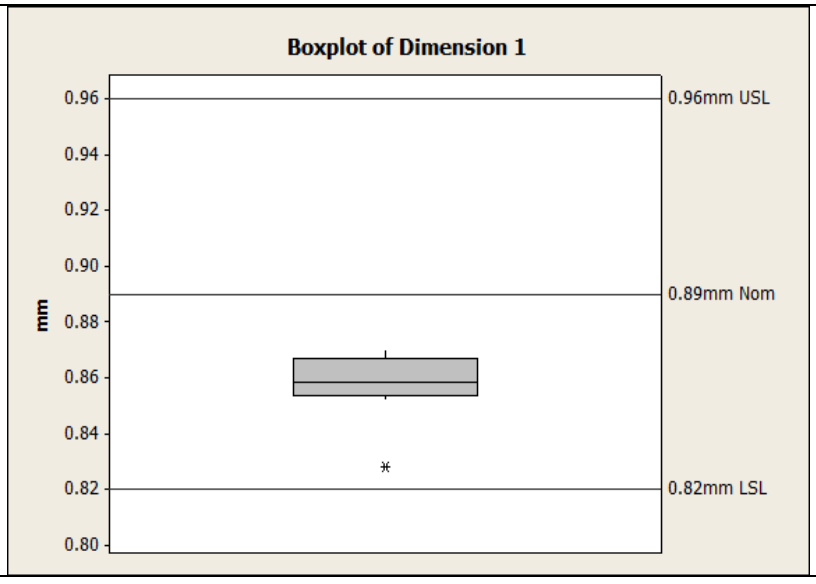
APPENDIX A:

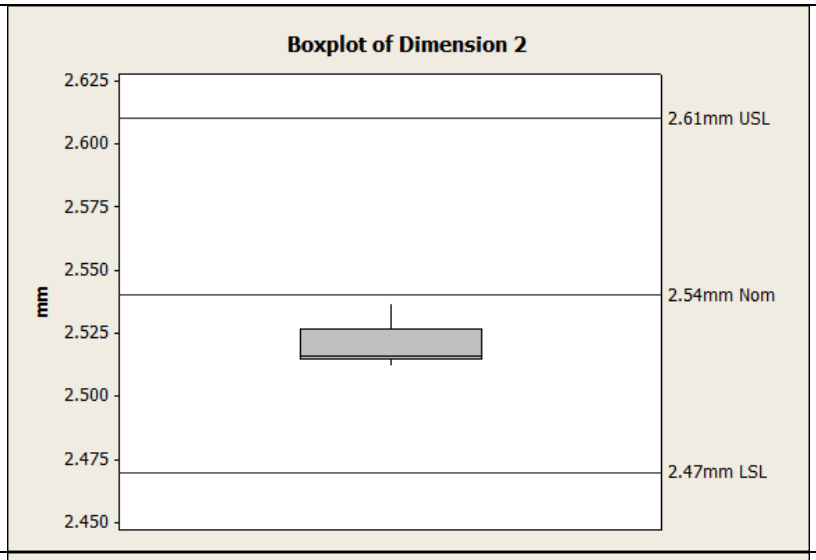
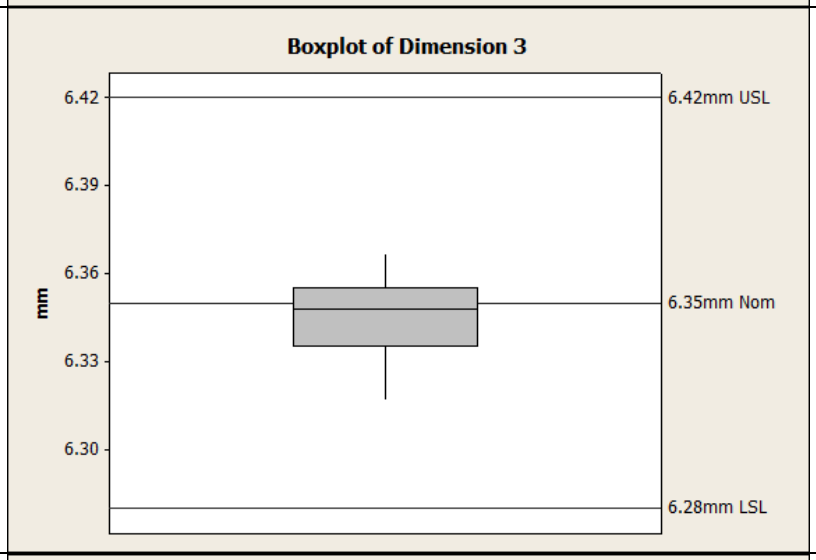
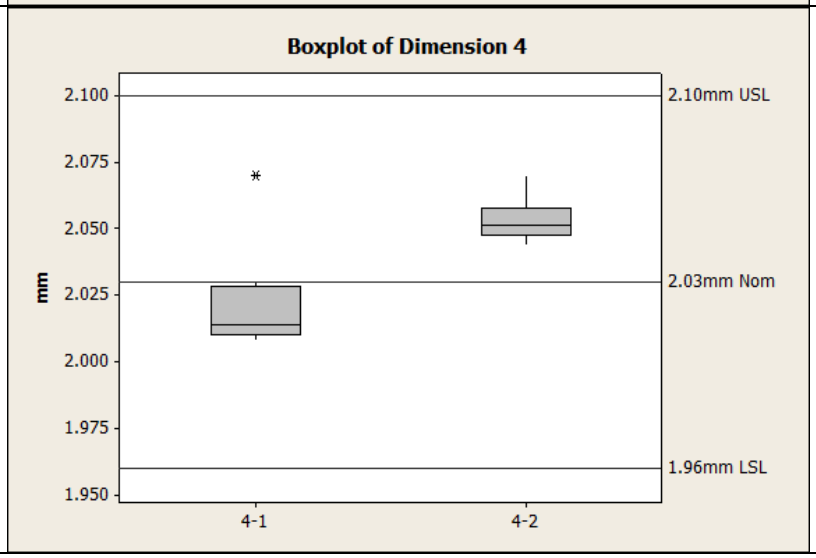
Test	Acceptance Criteria	Model Tested	Sample Size	Result	Data
Cable wire and FB-174 (interface cap) pull test	Room temperature. Speed = 2.5mm/min Hold cable and Cap, pull to 100N for 1min.	FB-BU-60959-000	Control 5 Trial 5	PASS	Visual Appearance 
Cable wire and FB-175 (carrier) pull test	Room temperature. Speed = 2.5mm/min Hold cable and Carrier, pull to 100N for 1min.	FB-BU-60959-000	Control 5 Trial 5	PASS	Visual Appearance 

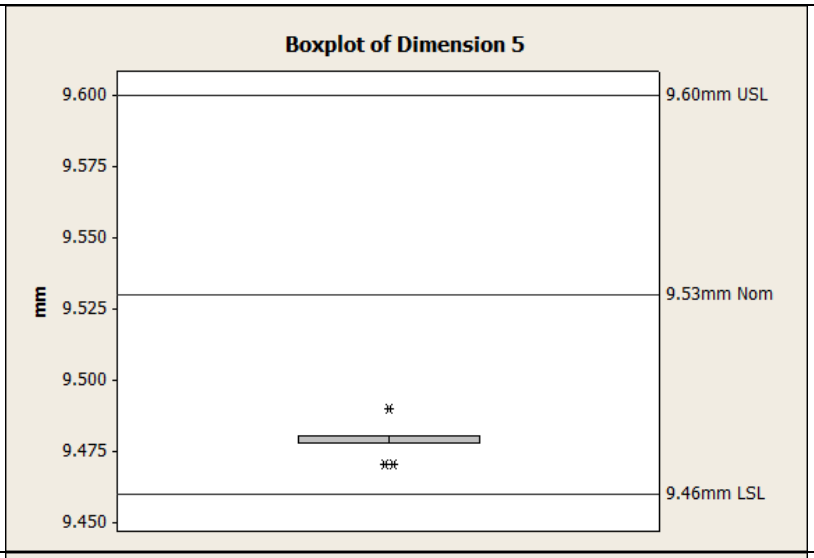
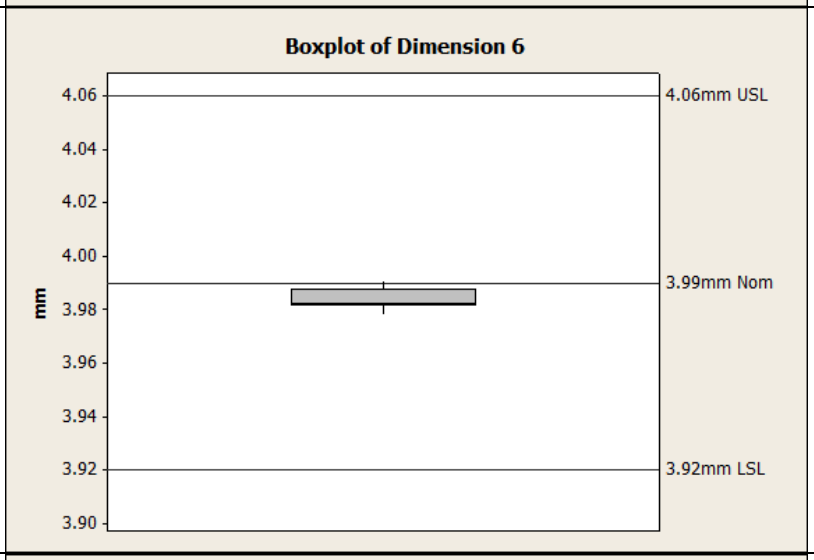
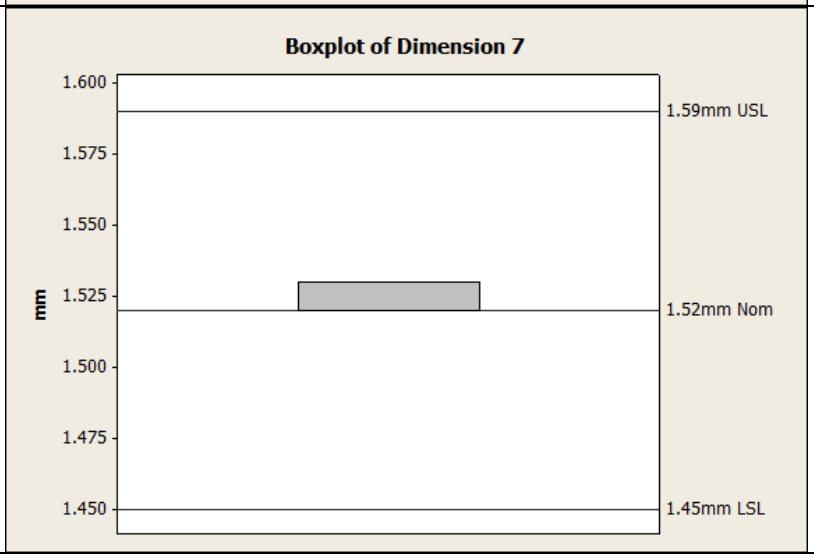
MATERIAL DATA:

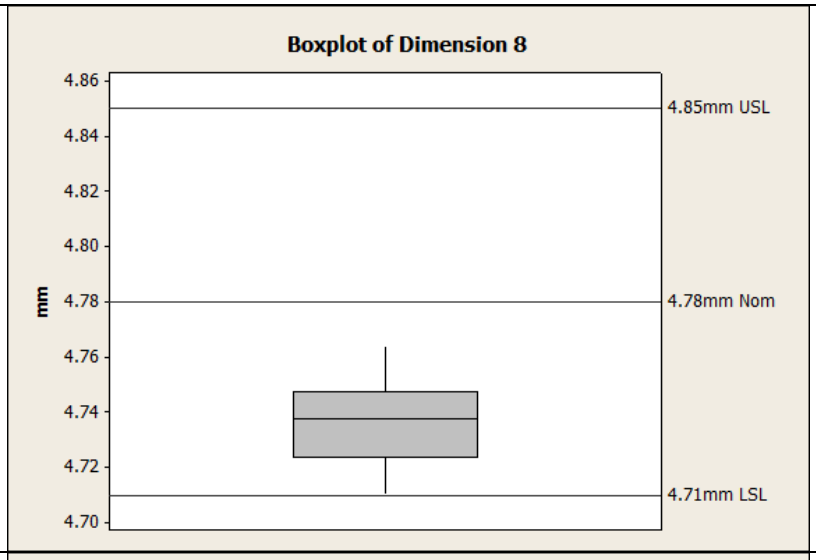
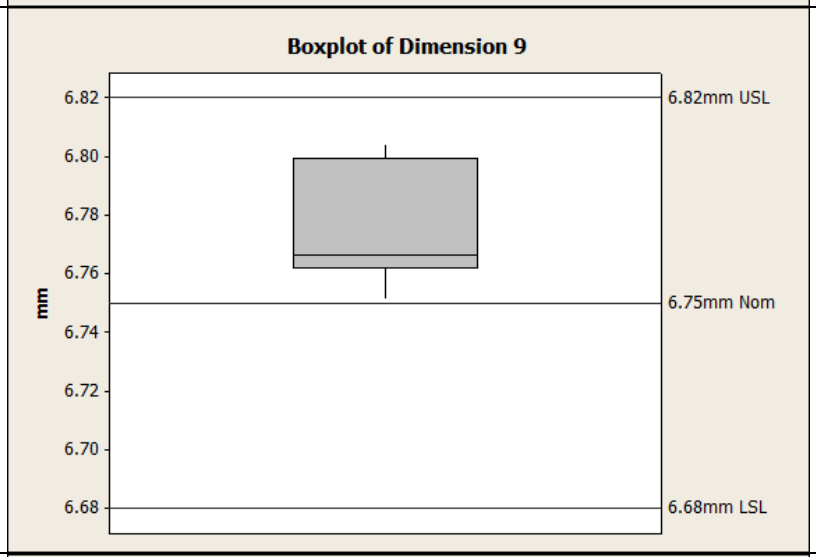
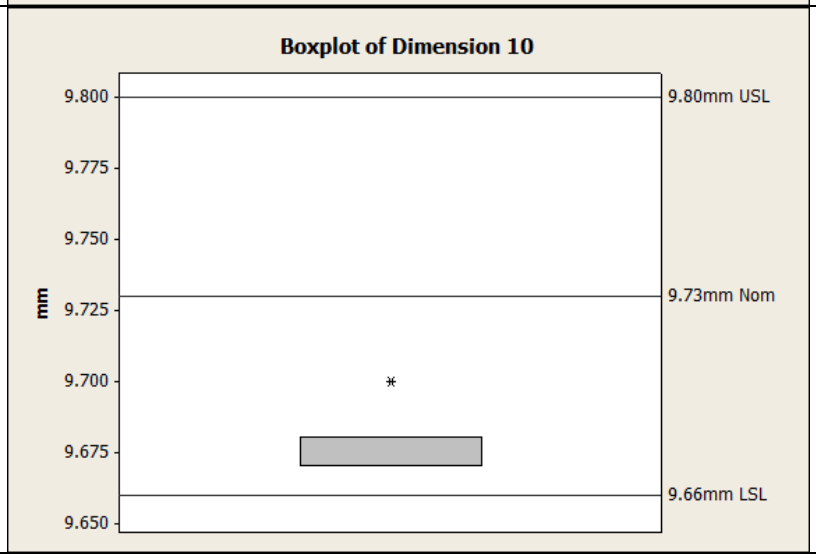
FB-174

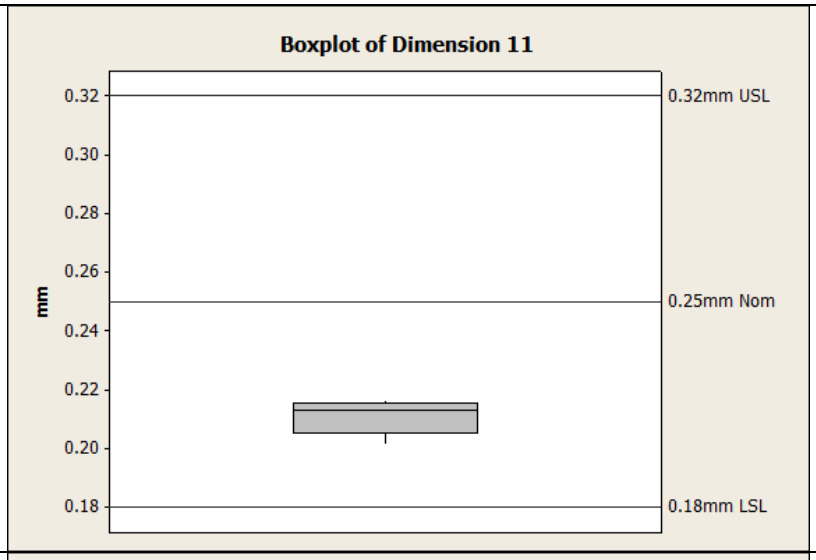
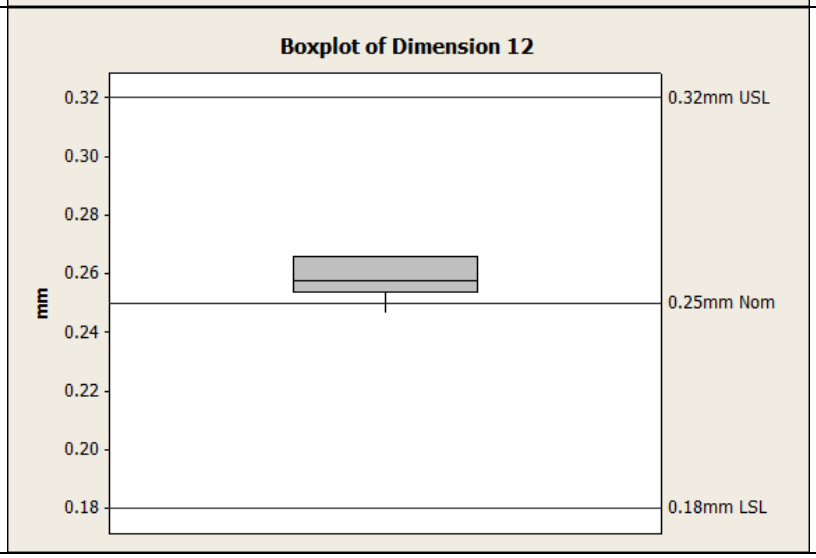
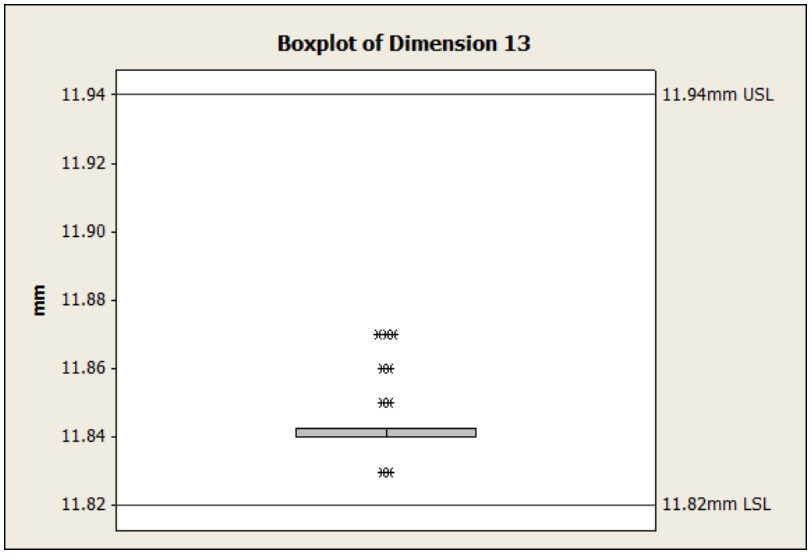


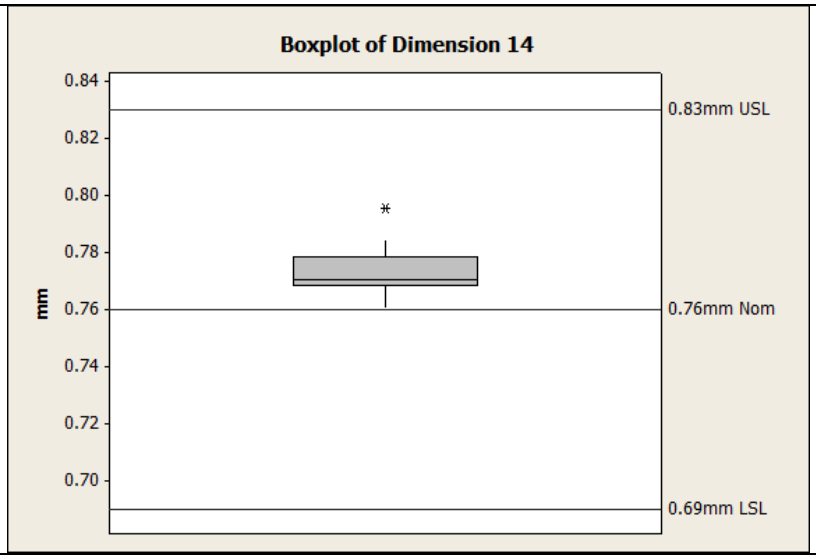
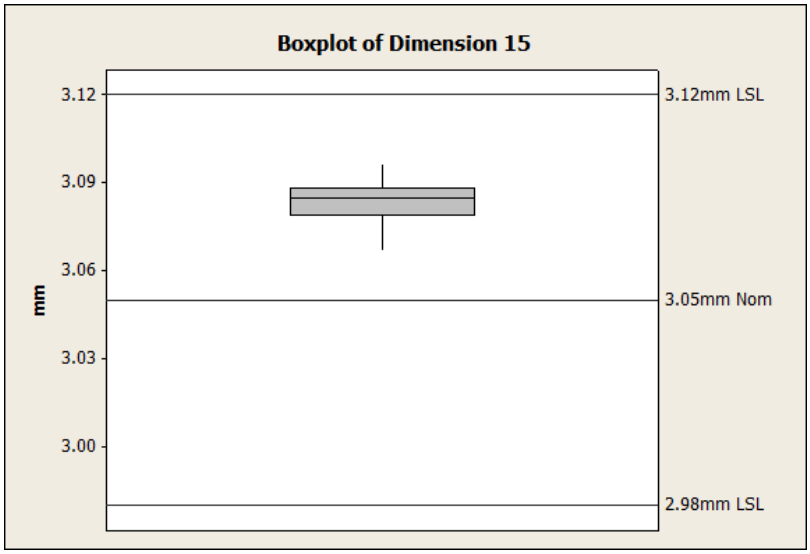
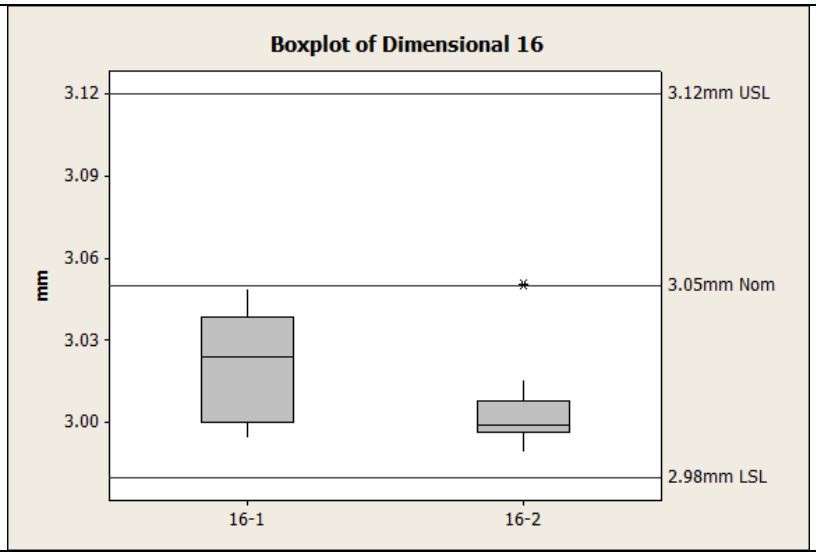
Dim No.	Measurements (mm)	Graph	Results
1	0.828 0.870 0.861 0.852 0.869 0.865 0.855 0.854 0.866 0.854		PASSED

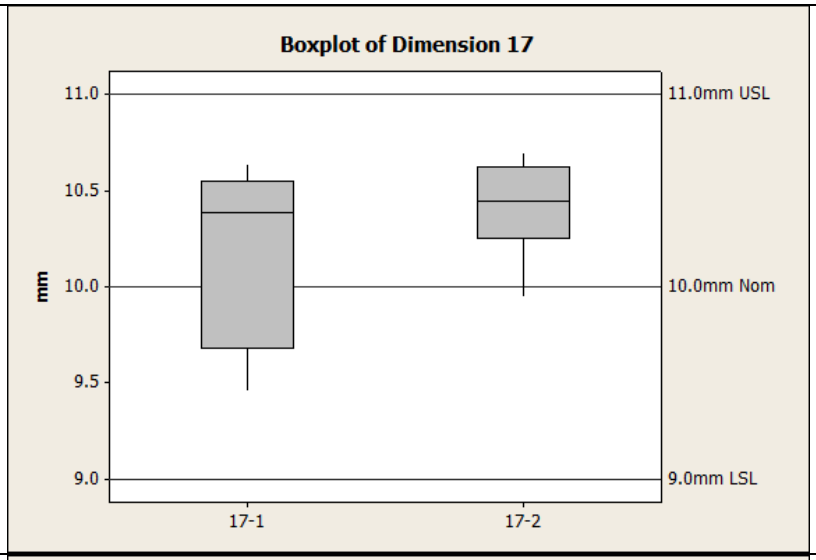
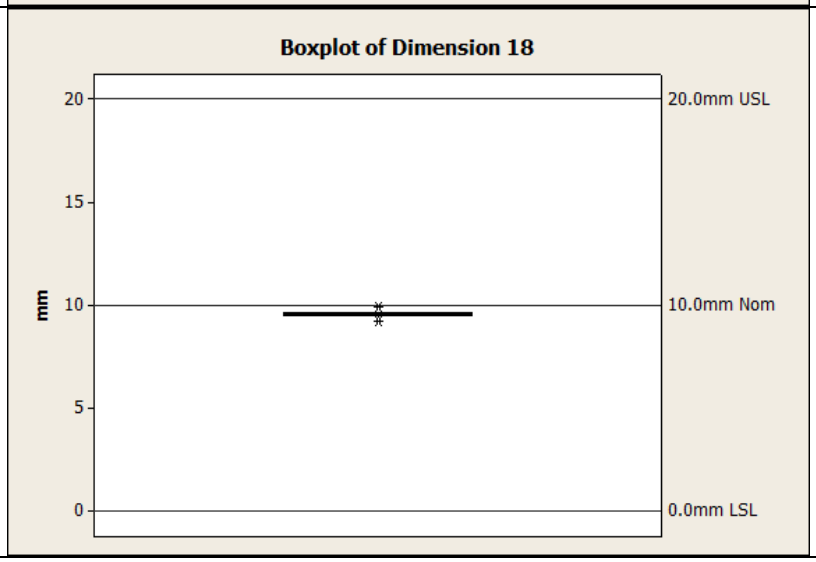
Dim No.	Measurements (mm)	Graph	Results
2	2.530 2.515 2.526 2.537 2.512 2.516 2.515 2.515 2.515 2.520		PASSED
3	6.348 6.337 6.348 6.355 6.349 6.330 6.367 6.357 6.338 6.317		PASSED
4	2.012 2.051 2.008 2.048 2.030 2.070 2.028 2.068 2.010 2.052 2.016 2.050 2.013 2.052 2.010 2.044 2.015 2.046 2.070 2.054		PASSED

Dim No.	Measurements (mm)	Graph	Results
5	9.480 9.470 9.480 9.480 9.490 9.480 9.480 9.480 9.470 9.480		PASSED
6	3.982 3.985 3.978 3.983 3.982 3.987 3.982 3.989 3.980 3.991		PASSED
7	1.530 1.520 1.530 1.520 1.520 1.520 1.520 1.530 1.520 1.520		PASSED

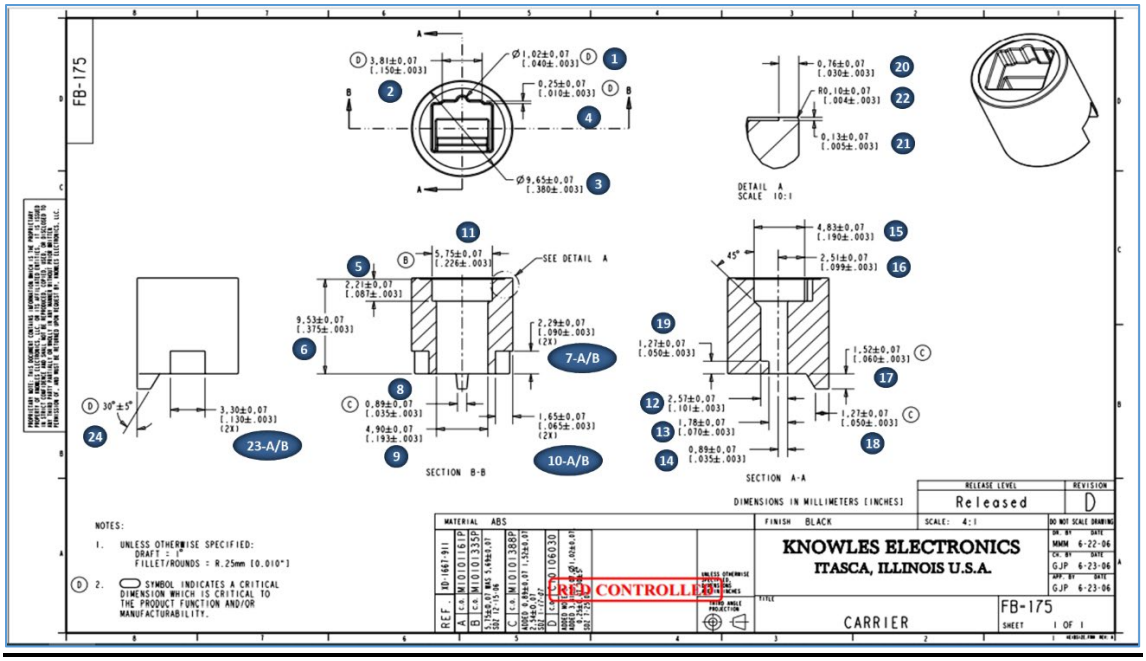
Dim No.	Measurements (mm)	Graph	Results
8	4.713 4.743 4.746 4.730 4.736 4.710 4.751 4.739 4.727 4.764		PASSED
9	6.767 6.799 6.766 6.804 6.800 6.751 6.765 6.779 6.754 6.765		PASSED
10	9.670 9.670 9.670 9.680 9.680 9.670 9.700 9.670 9.670 9.670		PASSED

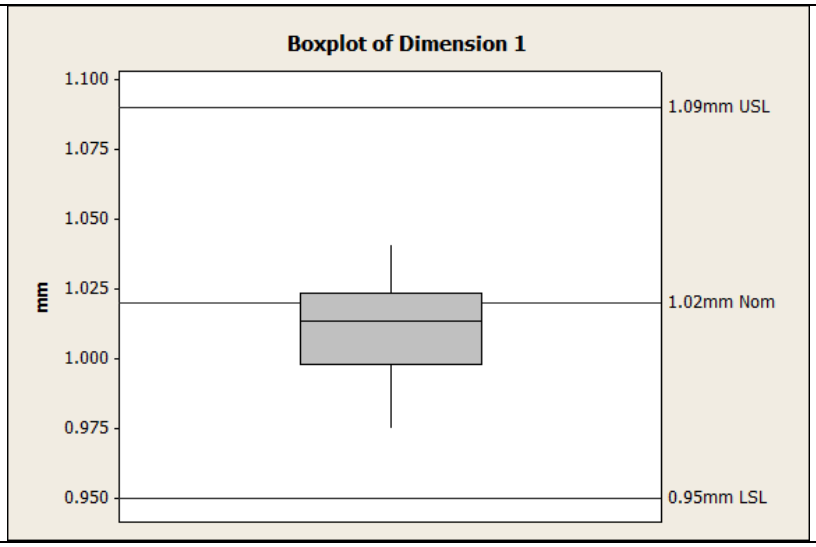
Dim No.	Measurements (mm)	Graph	Results
11	0.214 0.203 0.202 0.206 0.209 0.216 0.213 0.214 0.216 0.215		PASSED
12	0.265 0.253 0.255 0.247 0.260 0.255 0.265 0.266 0.266 0.255		PASSED
13	11.840 11.850 11.840 11.850 11.840 11.840 11.840 11.830 11.840 11.840 11.840 11.840 11.840 11.840 11.840 11.860 11.840 11.860 11.840 11.840 11.840 11.830 11.840 11.840 11.840 11.840 11.870 11.870 11.870 11.840		PASSED

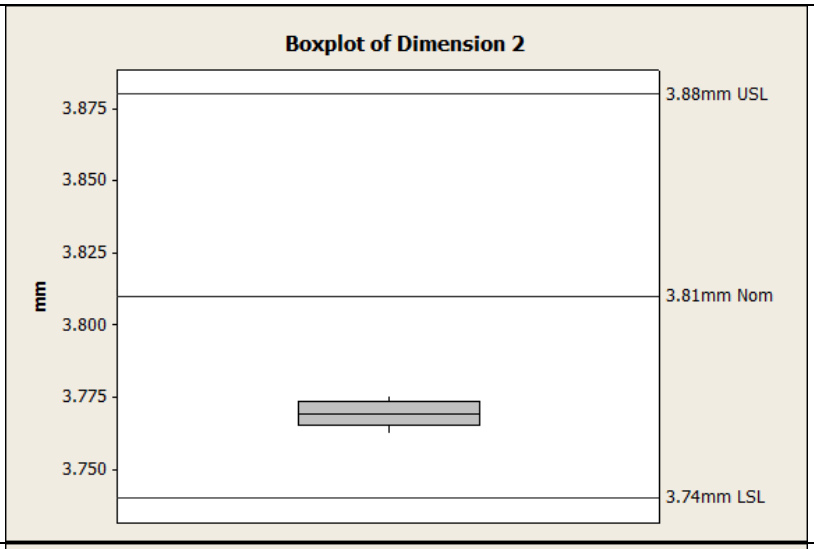
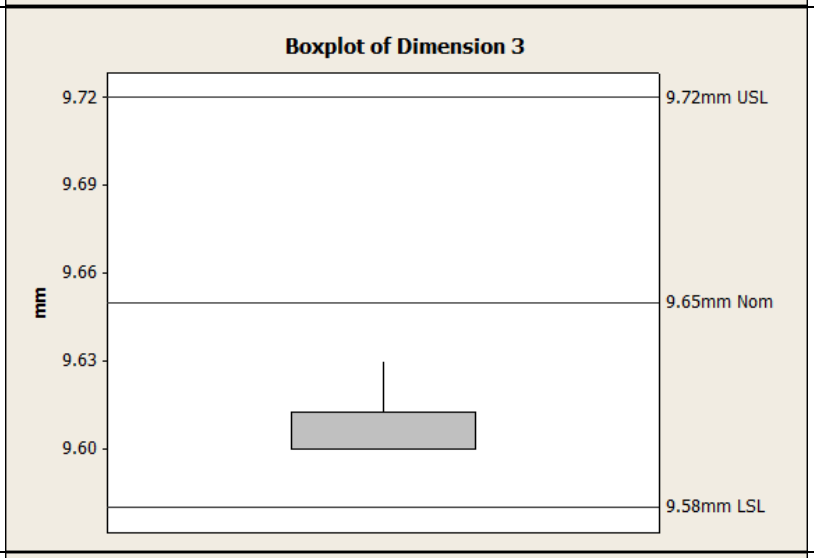
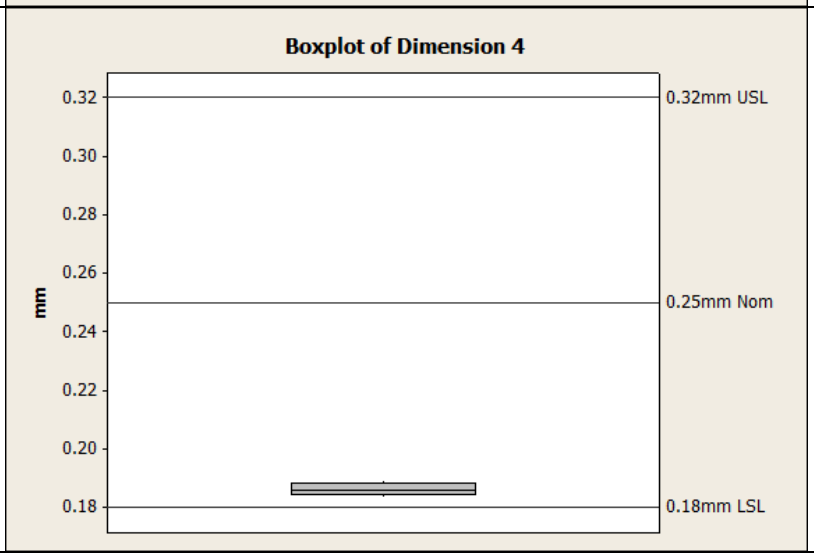
Dim No.	Measurements (mm)	Graph	Results
14	0.761 0.768 0.772 0.777 0.770 0.769 0.769 0.775 0.796 0.785		PASSED
15	3.079 3.082 3.078 3.088 3.076 3.086 3.078 3.085 3.093 3.075 3.086 3.091 3.086 3.092 3.079 3.083 3.093 3.084 3.079 3.088 3.067 3.097 3.085 3.082 3.076 3.085 3.081 3.089 3.086 3.085		PASSED
16	3.049 3.015 2.994 3.005 3.029 3.005 3.019 2.995 2.998 3.050 3.001 2.990 3.036 3.000 3.037 2.997 3.045 2.998 3.004 2.999		PASSED

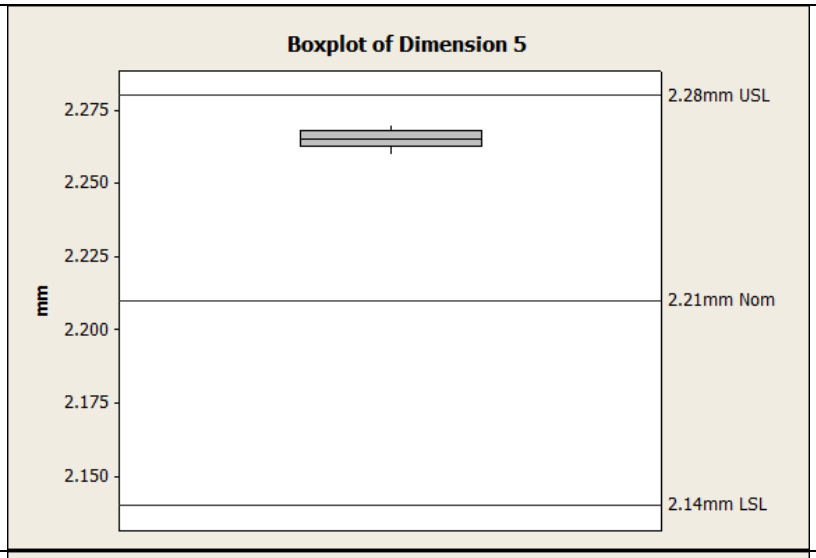
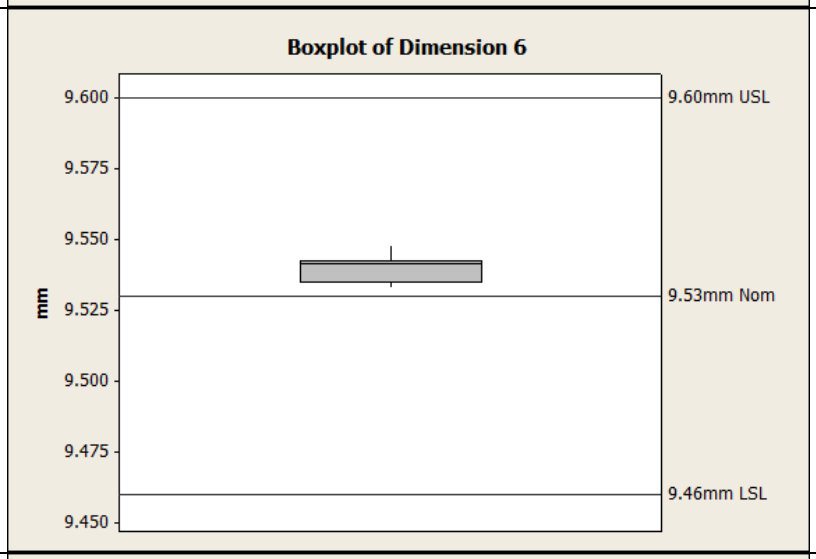
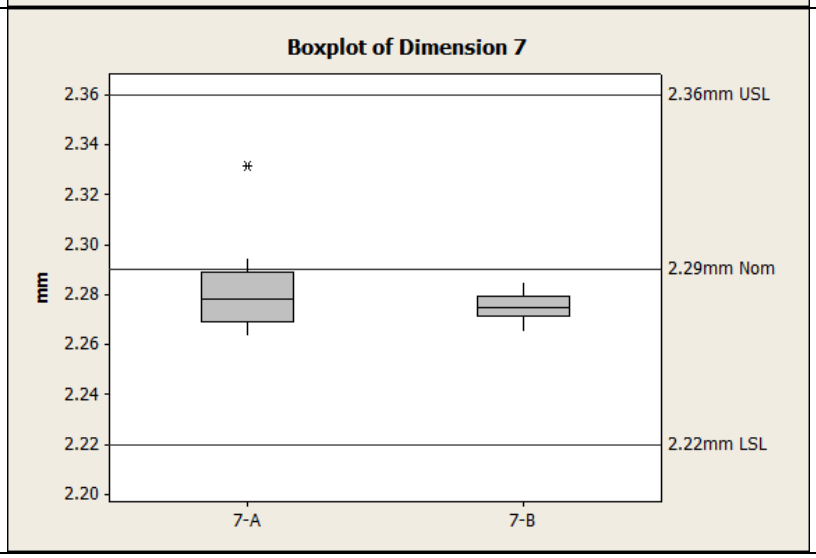
Dim No.	Measurements (mm)	Graph	Results
17	9.566 9.946 9.460 10.257 10.088 10.234 9.715 10.450 10.340 10.408 10.449 10.687 10.639 10.696 10.594 10.599 10.425 10.451 10.536 10.435		PASSED
18	9.380 9.262 9.631 9.936 9.611 9.544 9.616 9.603 9.622 9.615		PASSED

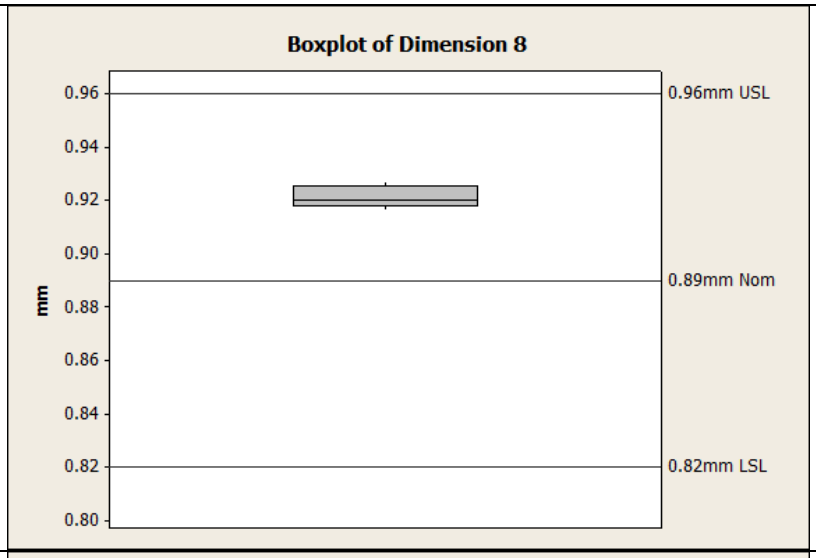
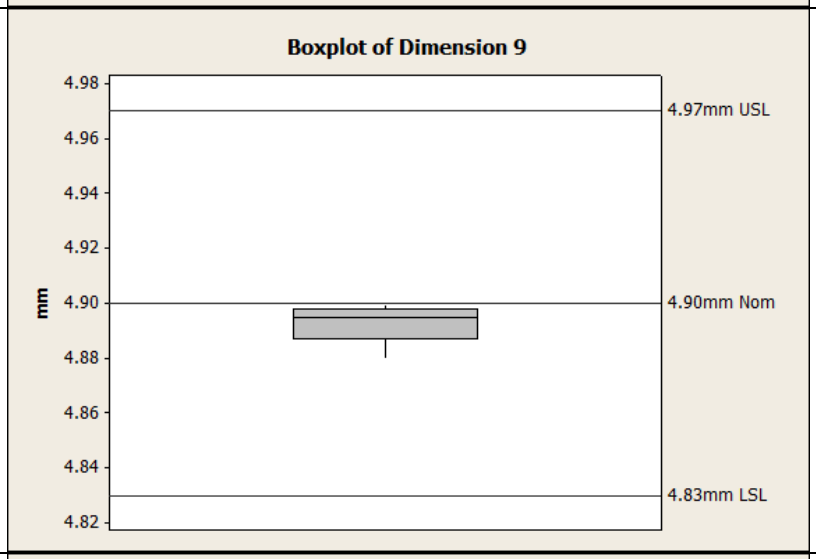
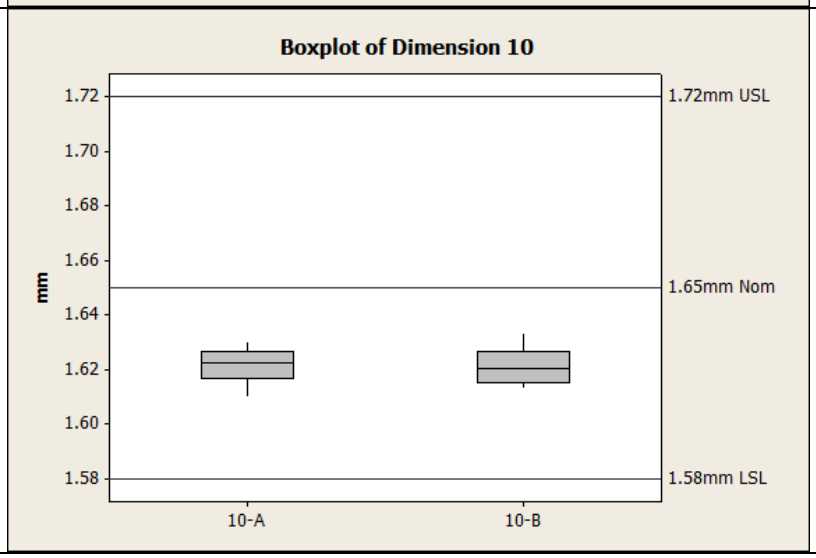
FB-175

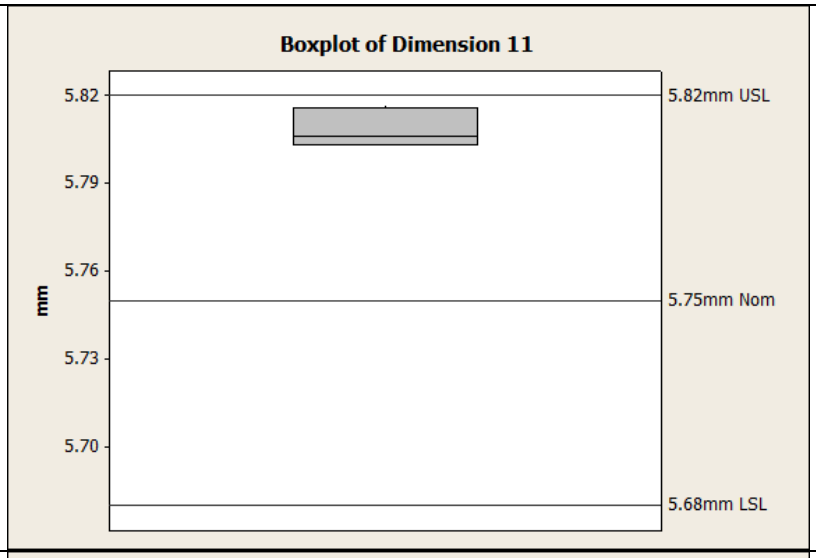
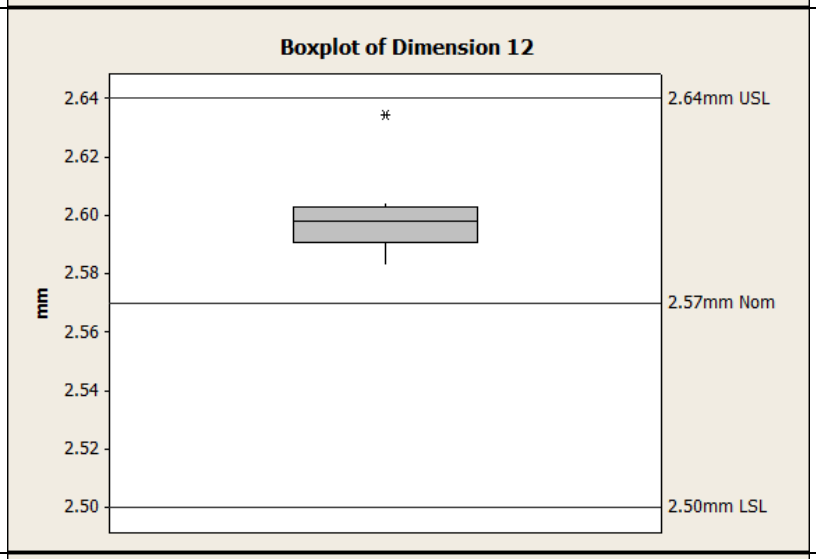
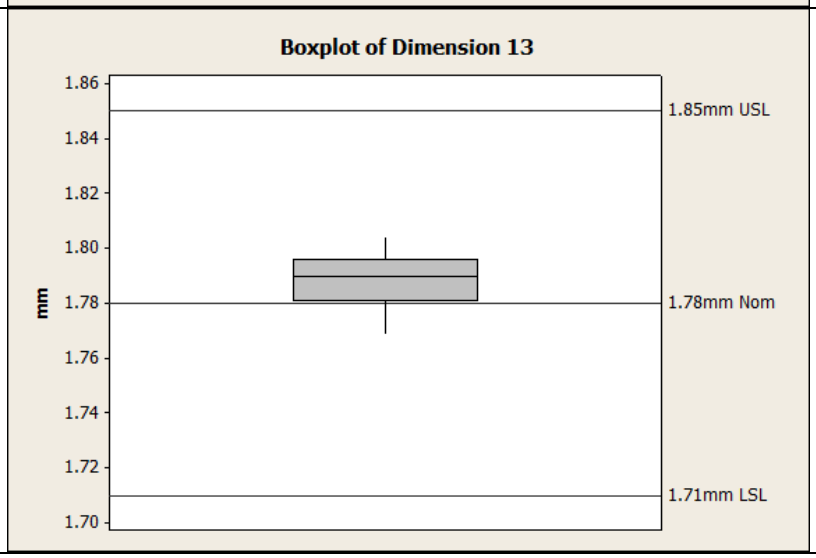


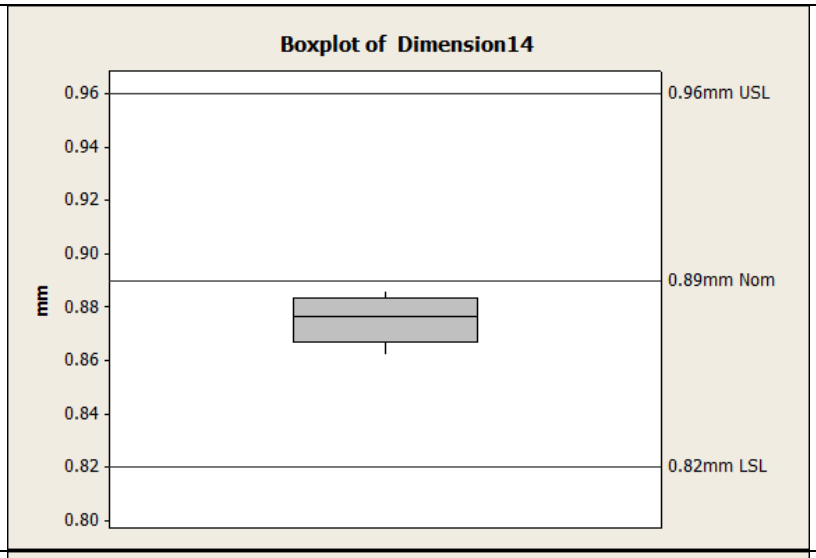
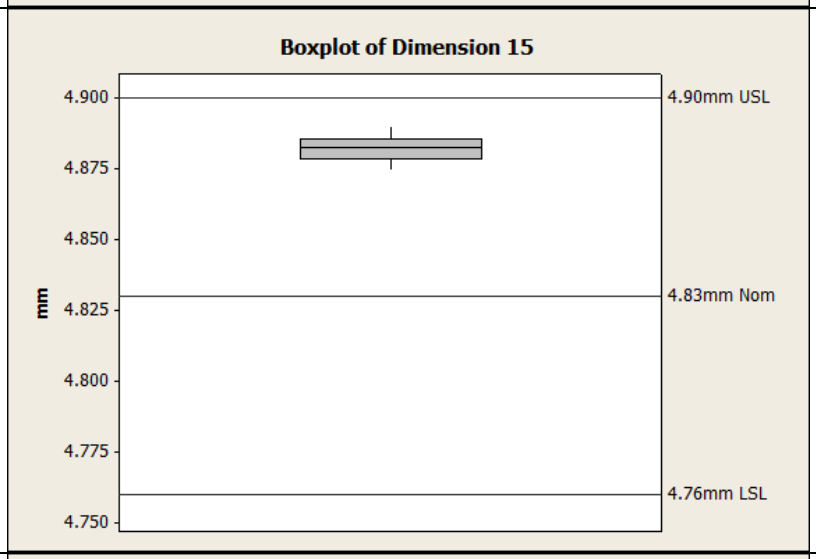
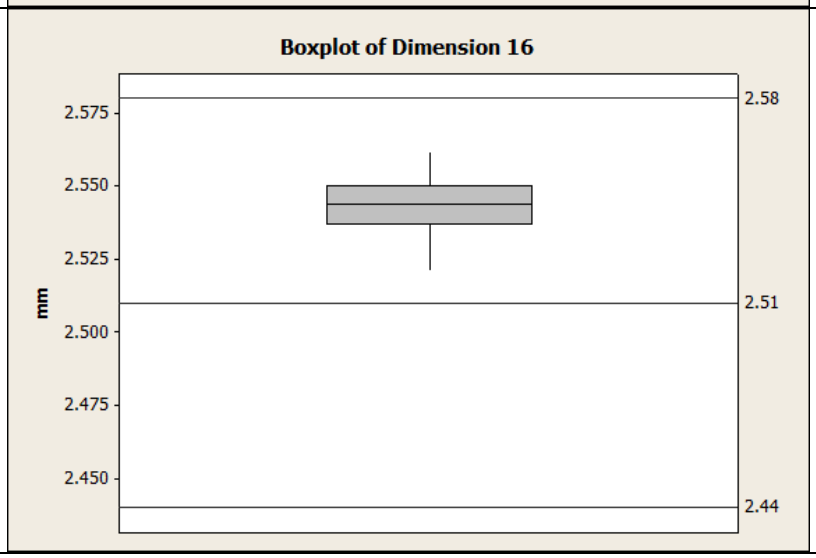
Dim No.	Measurements (mm)	Graph	Results
1	1.041 0.998 1.022 0.975 1.005 1.012 0.998 1.015 1.017 1.029		PASSED

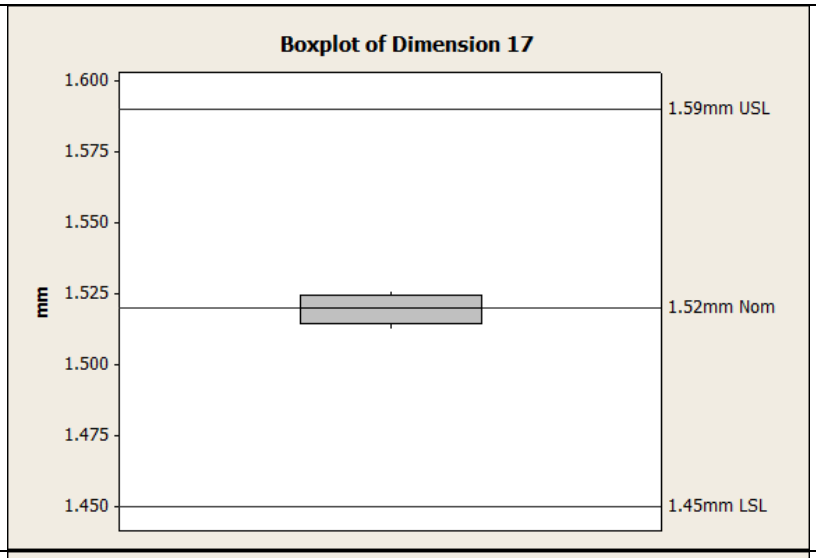
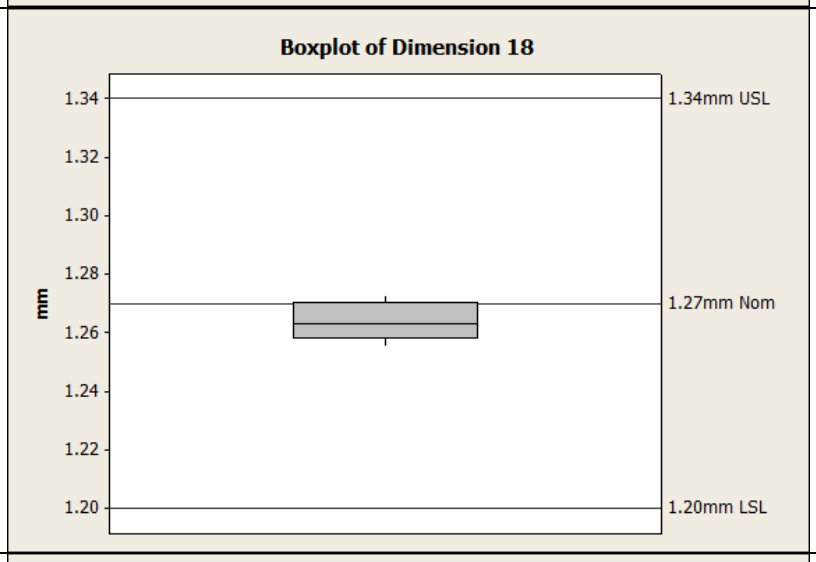
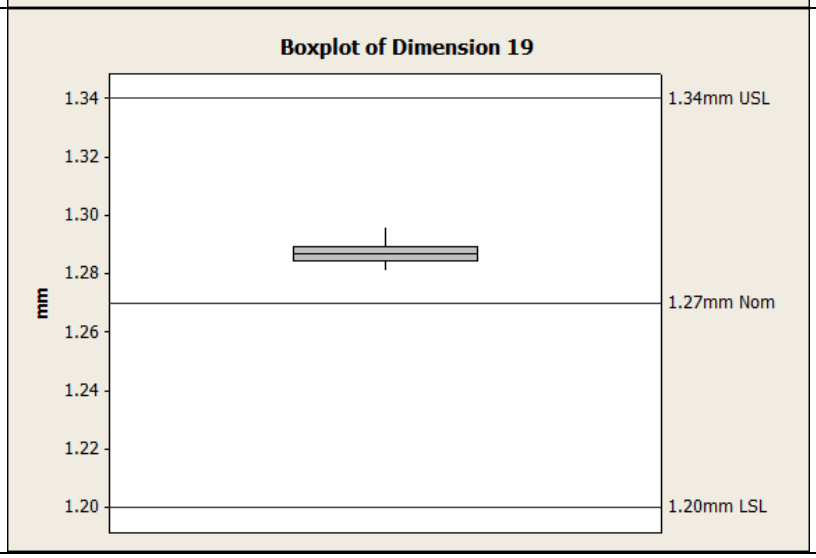
Dim No.	Measurements (mm)	Graph	Results
23	3.762 3.775 3.770 3.766 3.768 3.767 3.774 3.771 3.765 3.774		PASSED
3	9.600 9.630 9.600 9.600 9.610 9.600 9.620 9.600 9.600 9.600		PASSED
4	0.185 0.189 0.189 0.185 0.184 0.185 0.187 0.188 0.184 0.187		PASSED

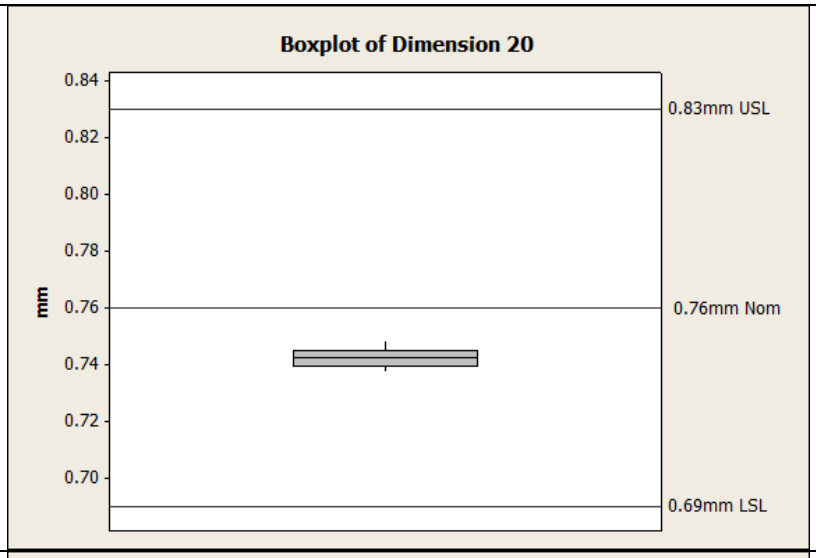
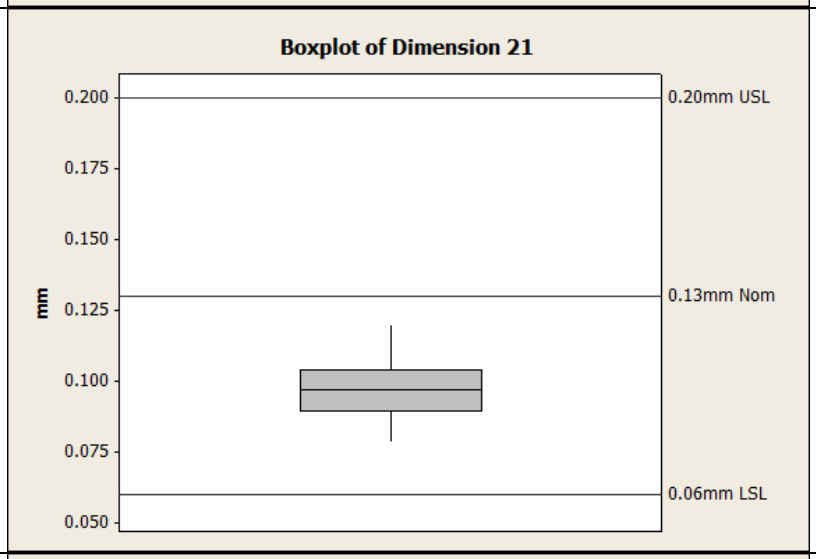
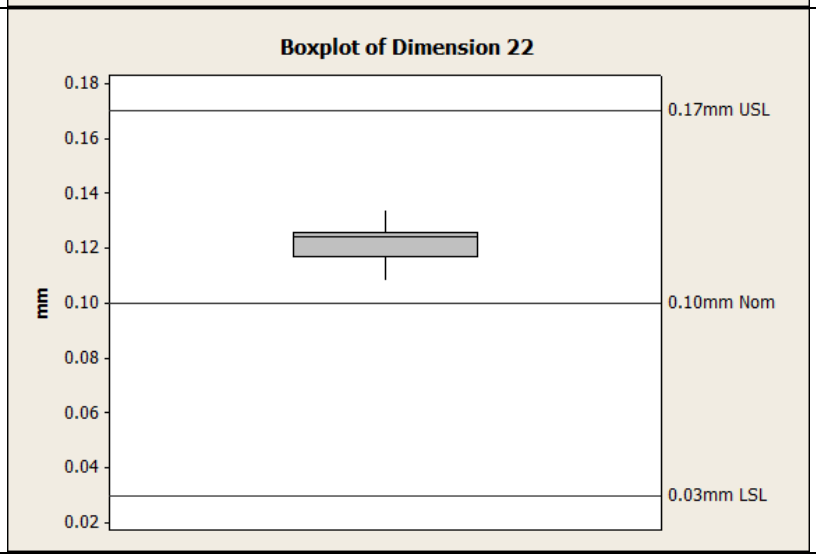
Dim No.	Measurements (mm)	Graph	Results
5	2.268 2.265 2.262 2.266 2.265 2.263 2.270 2.269 2.263 2.260		PASSED
6	9.542 9.548 9.539 9.543 9.541 9.533 9.534 9.542 9.535 9.542		PASSED
7	2.294 2.277 2.270 2.272 2.280 2.271 2.331 2.279 2.285 2.265 2.264 2.285 2.275 2.273 2.287 2.272 2.276 2.280 2.267 2.276		PASSED

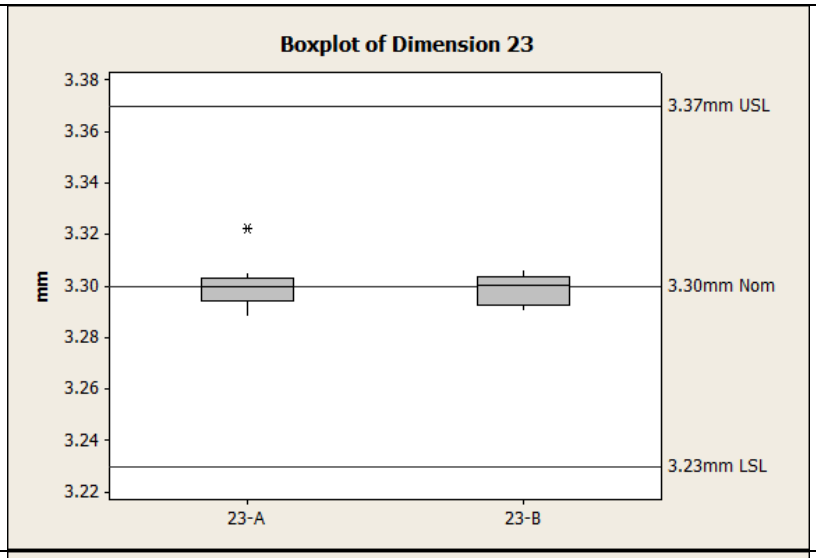
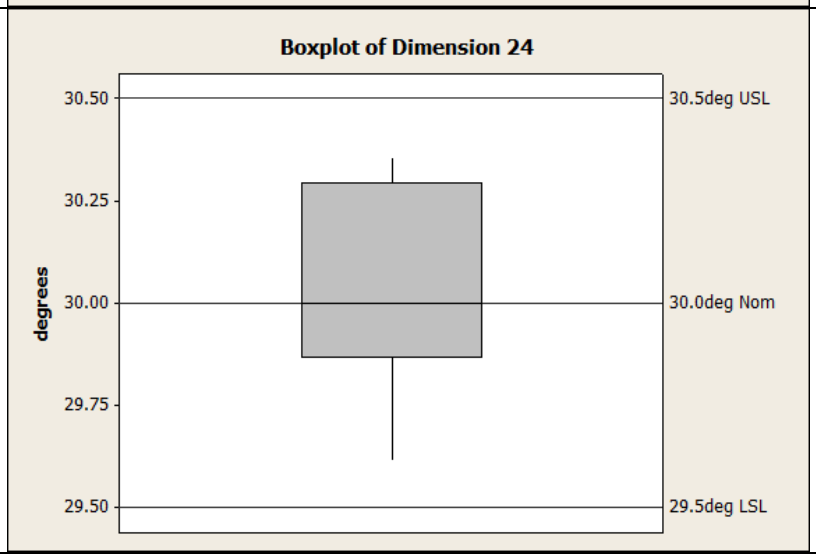
Dim No.	Measurements (mm)	Graph	Results
8	0.918 0.916 0.918 0.918 0.926 0.921 0.925 0.920 0.920 0.927		PASSED
9	4.896 4.892 4.895 4.898 4.898 4.900 4.895 4.883 4.880 4.888		PASSED
10	1.623 1.621 1.618 1.615 1.630 1.626 1.612 1.633 1.610 1.630 1.621 1.620 1.628 1.614 1.622 1.617 1.623 1.622 1.626 1.613		PASSED

Dim No.	Measurements (mm)	Graph	Results
11	5.817 5.806 5.816 5.815 5.804 5.803 5.817 5.806 5.803 5.804		PASSED
12	2.634 2.596 2.592 2.605 2.602 2.597 2.583 2.601 2.600 2.587		PASSED
13	1.795 1.804 1.792 1.783 1.791 1.798 1.782 1.789 1.779 1.768		PASSED

Dim No.	Measurements (mm)	Graph	Results
14	0.877 0.869 0.884 0.862 0.879 0.862 0.883 0.876 0.886 0.876		PASSED
15	4.877 4.884 4.880 4.883 4.889 4.890 4.875 4.884 4.881 4.879		PASSED
16	2.536 2.554 2.537 2.538 2.521 2.562 2.540 2.549 2.548 2.548		PASSED

Dim No.	Measurements (mm)	Graph	Results
17	1.521 1.526 1.524 1.525 1.519 1.513 1.513 1.517 1.515 1.522		PASSED
18	1.270 1.270 1.258 1.263 1.273 1.271 1.263 1.259 1.255 1.262		PASSED
19	1.288 1.287 1.286 1.294 1.281 1.281 1.287 1.296 1.287 1.286		PASSED

Dim No.	Measurements (mm)	Graph	Results
20	0.738 0.747 0.743 0.739 0.742 0.740 0.744 0.748 0.743 0.741		PASSED
21	0.120 0.102 0.095 0.092 0.108 0.078 0.083 0.101 0.098 0.095		PASSED
22	0.125 0.119 0.125 0.124 0.113 0.128 0.108 0.125 0.134 0.123		PASSED

Dim No.	Measurements (mm)	Graph	Results
23	3.289 3.307 3.294 3.299 3.301 3.291 3.296 3.293 3.306 3.305 3.299 3.303 3.295 3.297 3.322 3.301 3.300 3.303 3.302 3.293		PASSED
24	29.873 30.280 30.342 30.357 29.968 29.916 30.031 29.616 30.056 29.861		PASSED

FUNCTIONAL DATA:

- Functional data are Passed and Comparable.