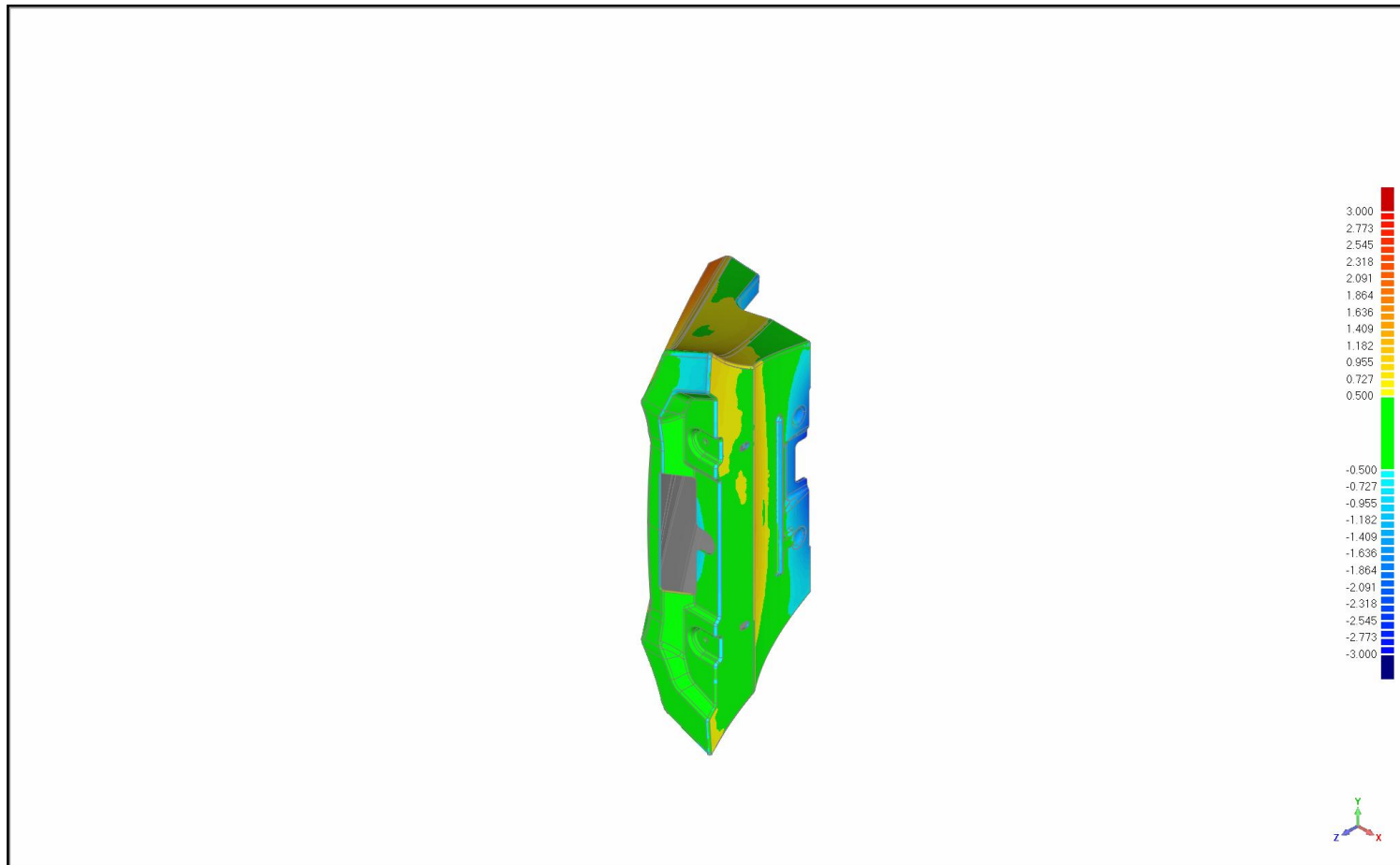


INSPECTION REPORT

Date Inspected: 11/16/2012



Reference Model: 22781648.002
Test Model: PPT111512
Author: Applications 3D

INSPECTION REPORT

High resolution white light scandata of the prototype part is compared to the CAD data of the part. The errors on the part can be calculated using the color scale on the left. Each point is shaded with a different color based on its distance from the reference CAD model. In the CAD-to-scandata overlays, the scandata is blue color , while the CAD is grey color. The scanning was done with a Steinbichler Comet V- 4 million pixel white light scanning system



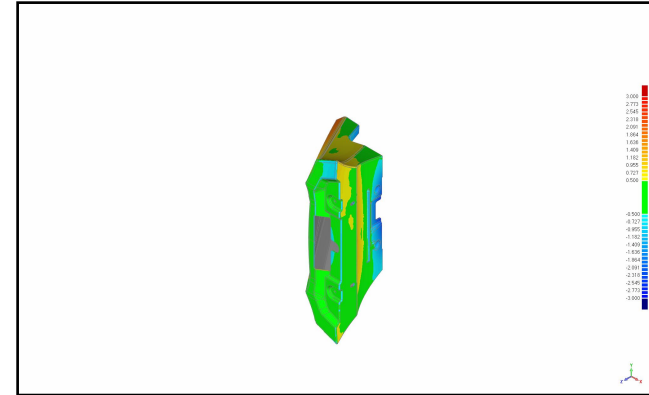
INSPECTION REPORT

3D Comparison Results

Reference Model	22781648.002
Test Model	PPT111512
No. of Data Points	3716422

Tolerance Type	3D Deviation
Units	mm
Max. Critical	3.000
Max. Nominal	0.500
Min. Nominal	-0.500
Min. Critical	-3.000

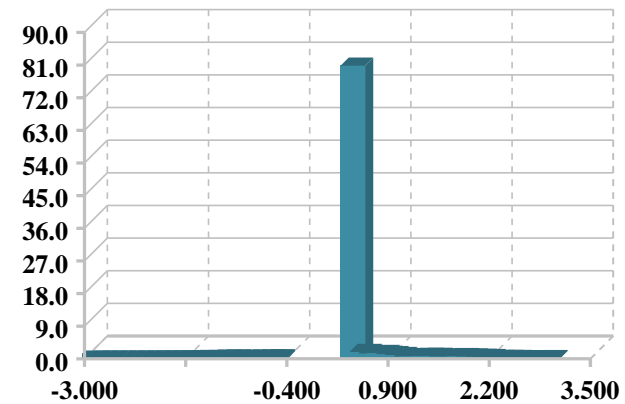
Deviation	
Max. Upper Dev.	4.758
Max. Lower Dev.	-4.995
Average Deviation	0.999 / -0.698
Standard Deviation	0.984



Deviation Distribution

>=Min	<Max	# Points	%
-3.000	-2.886	35	0.001
-2.886	-2.773	74	0.002
-2.773	-2.659	458	0.012
-2.659	-2.545	424	0.011
-2.545	-2.432	480	0.013
-2.432	-2.318	725	0.020
-2.318	-2.205	923	0.025
-2.205	-2.091	1265	0.034
-2.091	-1.977	1875	0.050
-1.977	-1.864	2325	0.063
-1.864	-1.750	3307	0.089
-1.750	-1.636	4707	0.127
-1.636	-1.523	7233	0.195
-1.523	-1.409	8408	0.226
-1.409	-1.295	8345	0.225
-1.295	-1.182	12186	0.328
-1.182	-1.068	13691	0.368
-1.068	-0.955	11032	0.297
-0.955	-0.841	10293	0.277
-0.841	-0.727	12844	0.346
-0.727	-0.614	13865	0.373

Deviation Distribution



INSPECTION REPORT

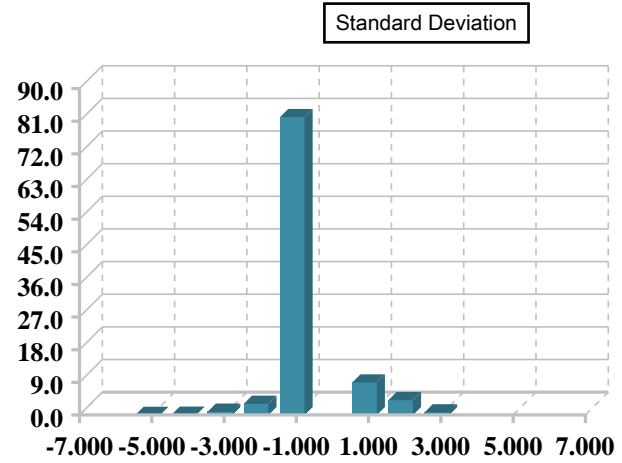
>=Min	<Max	# Points	%
-0.614	-0.500	16090	0.433
-0.500	0.500	3004211	80.836
0.500	0.614	70413	1.895
0.614	0.727	54655	1.471
0.727	0.841	60162	1.619
0.841	0.955	48539	1.306
0.955	1.068	39232	1.056
1.068	1.182	25303	0.681
1.182	1.295	27355	0.736
1.295	1.409	30321	0.816
1.409	1.523	30701	0.826
1.523	1.636	23694	0.638
1.636	1.750	24046	0.647
1.750	1.864	28275	0.761
1.864	1.977	23843	0.642
1.977	2.091	20876	0.562
2.091	2.205	18368	0.494
2.205	2.318	8629	0.232
2.318	2.432	9254	0.249
2.432	2.545	8551	0.230
2.545	2.659	6652	0.179
2.659	2.773	6135	0.165
2.773	2.886	6181	0.166
2.886	3.000	7465	0.201

Out of Upper Critical	2846	0.077
Out of Lower Critical	130	0.003

INSPECTION REPORT

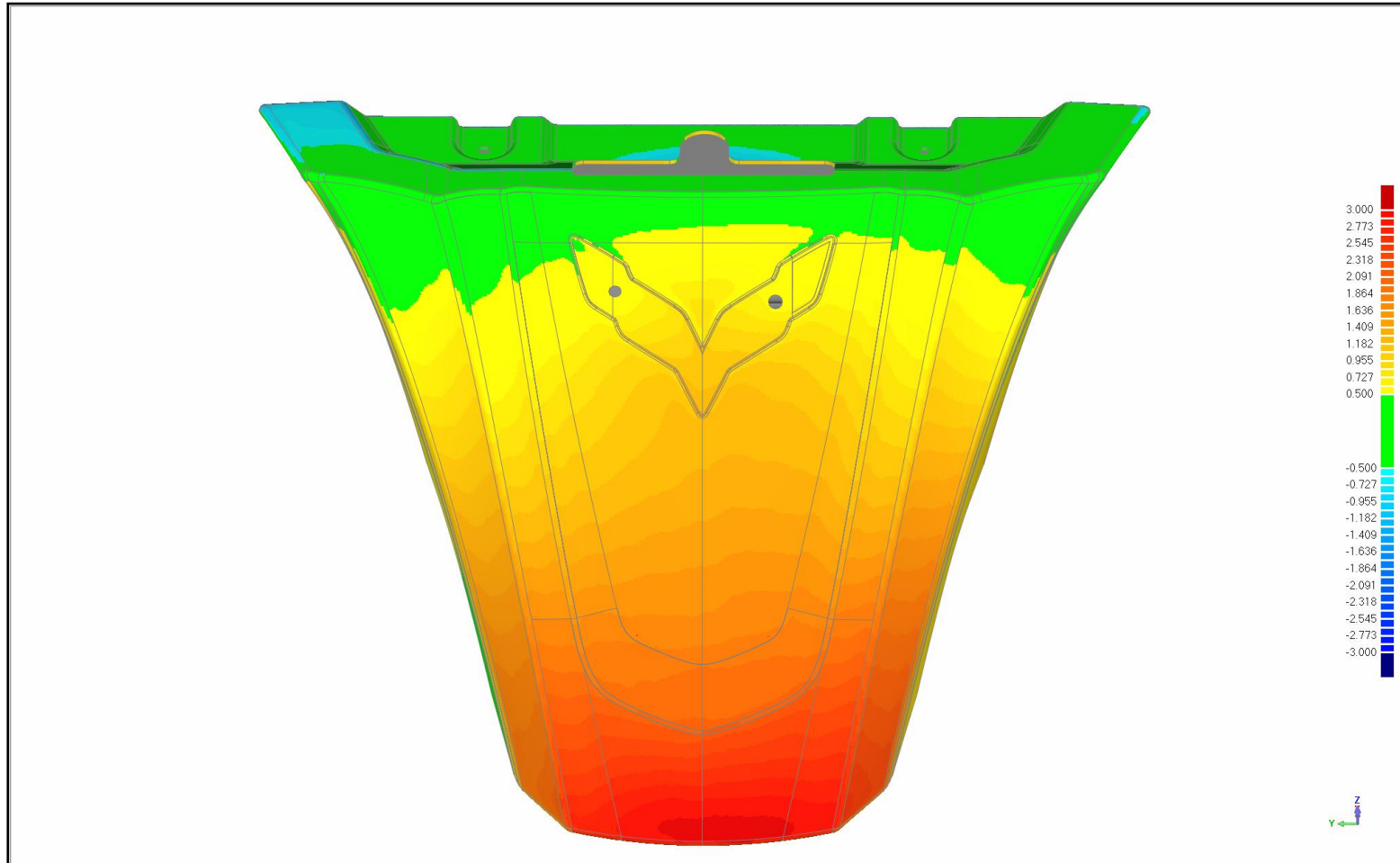
Standard Deviations

Distribution (+/-)	# Points	%
-6 * Std. Dev.	5	0.000
-5 * Std. Dev.	42	0.001
-4 * Std. Dev.	2132	0.057
-3 * Std. Dev.	34041	0.916
-2 * Std. Dev.	114831	3.090
-1 * Std. Dev.	3052763	82.143
1 * Std. Dev.	333144	8.964
2 * Std. Dev.	152388	4.100
3 * Std. Dev.	27064	0.728
4 * Std. Dev.	11	0.000
5 * Std. Dev.	1	0.000
6 * Std. Dev.	0	0.000



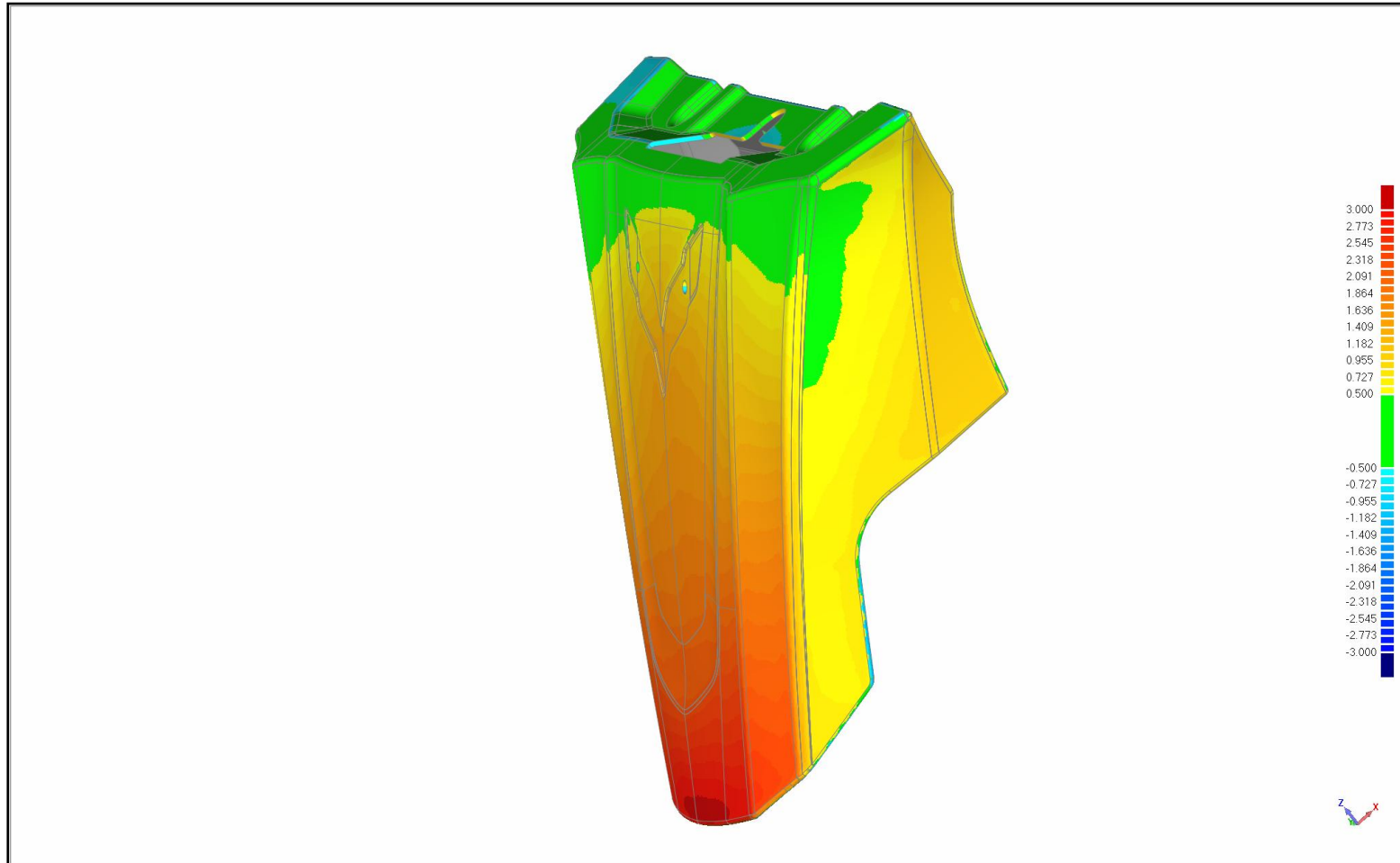
INSPECTION REPORT

UserDefined: QuickView 1



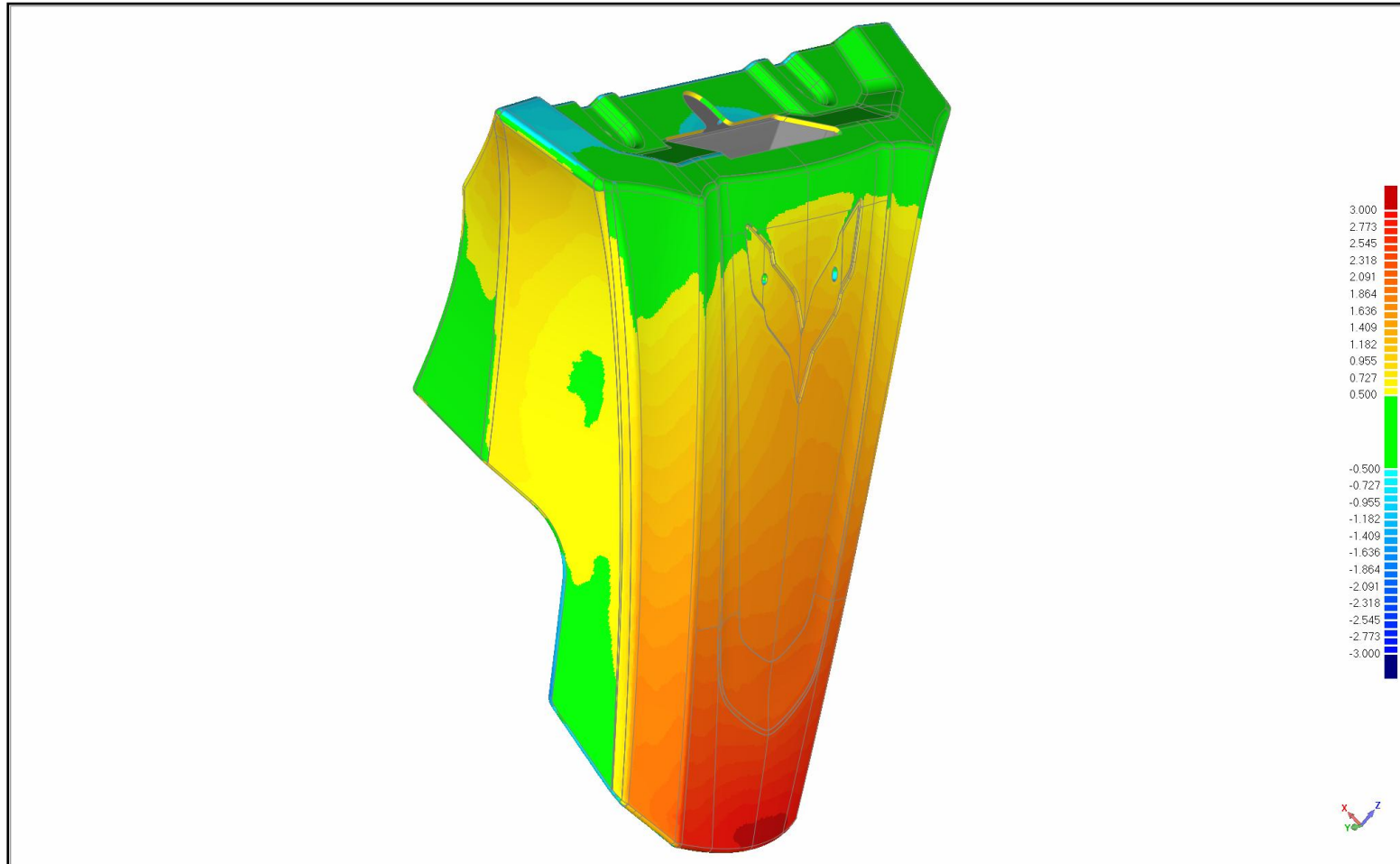
INSPECTION REPORT

UserDefined: QuickView 2



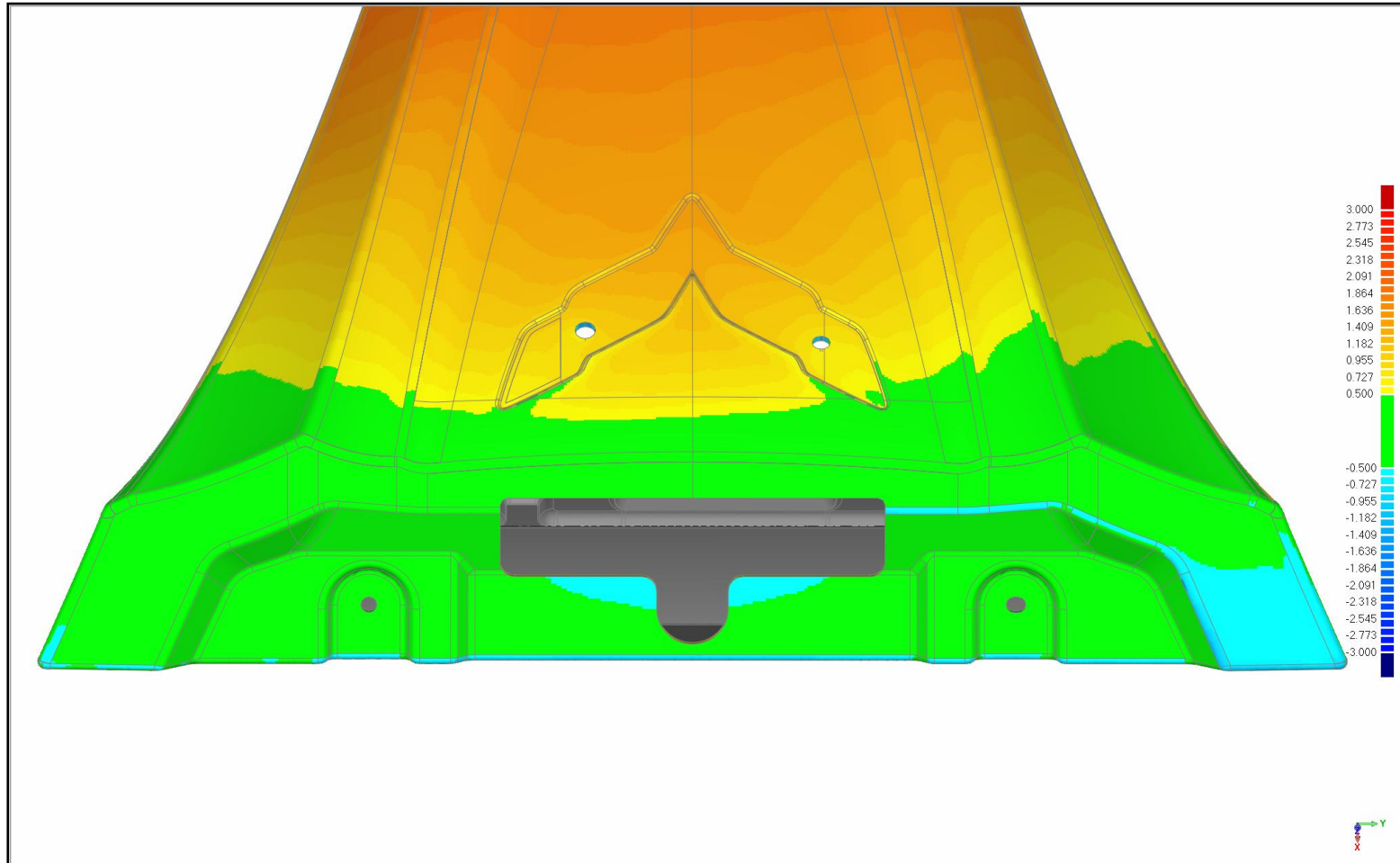
INSPECTION REPORT

UserDefined: QuickView 3



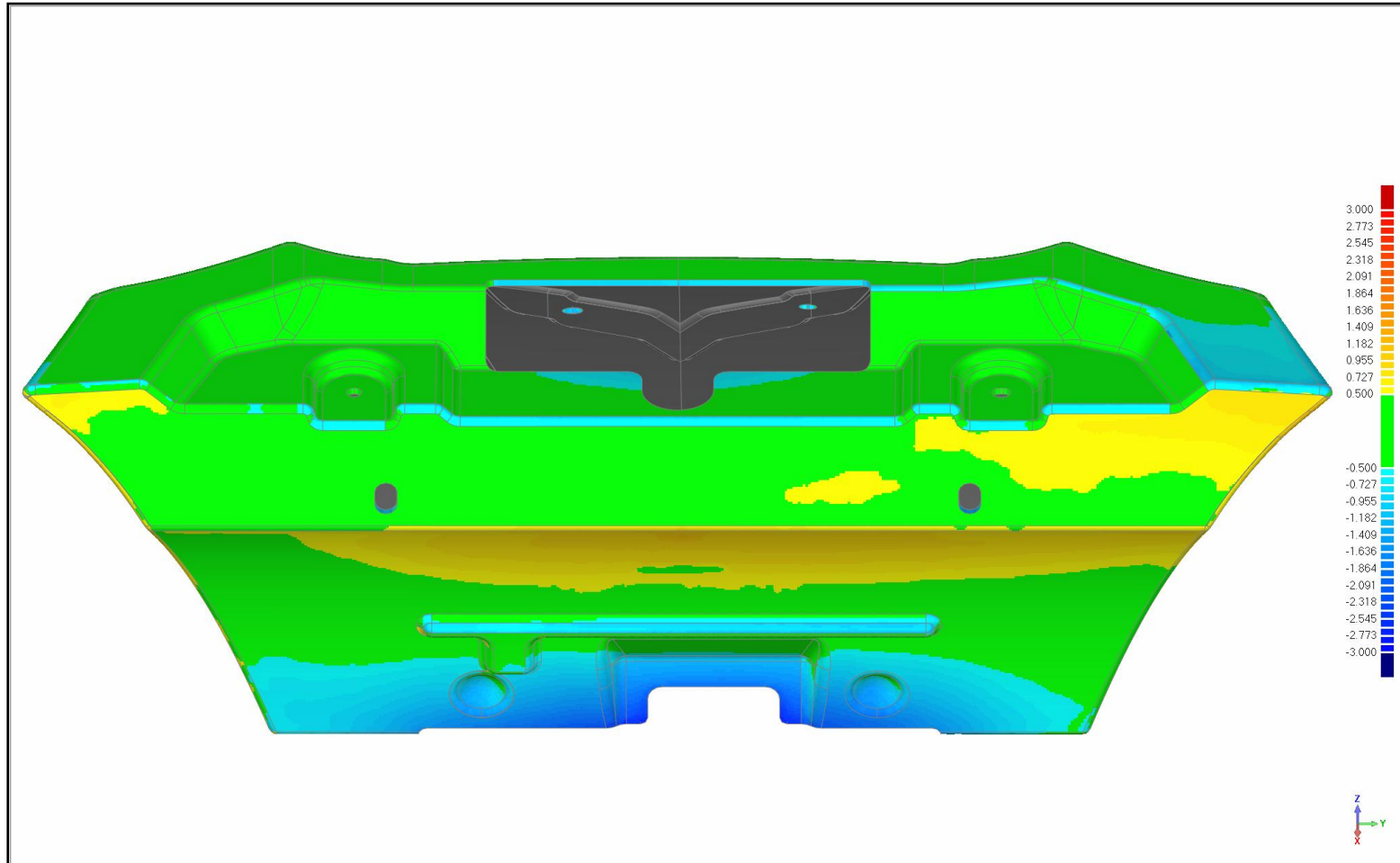
INSPECTION REPORT

UserDefined: QuickView 4



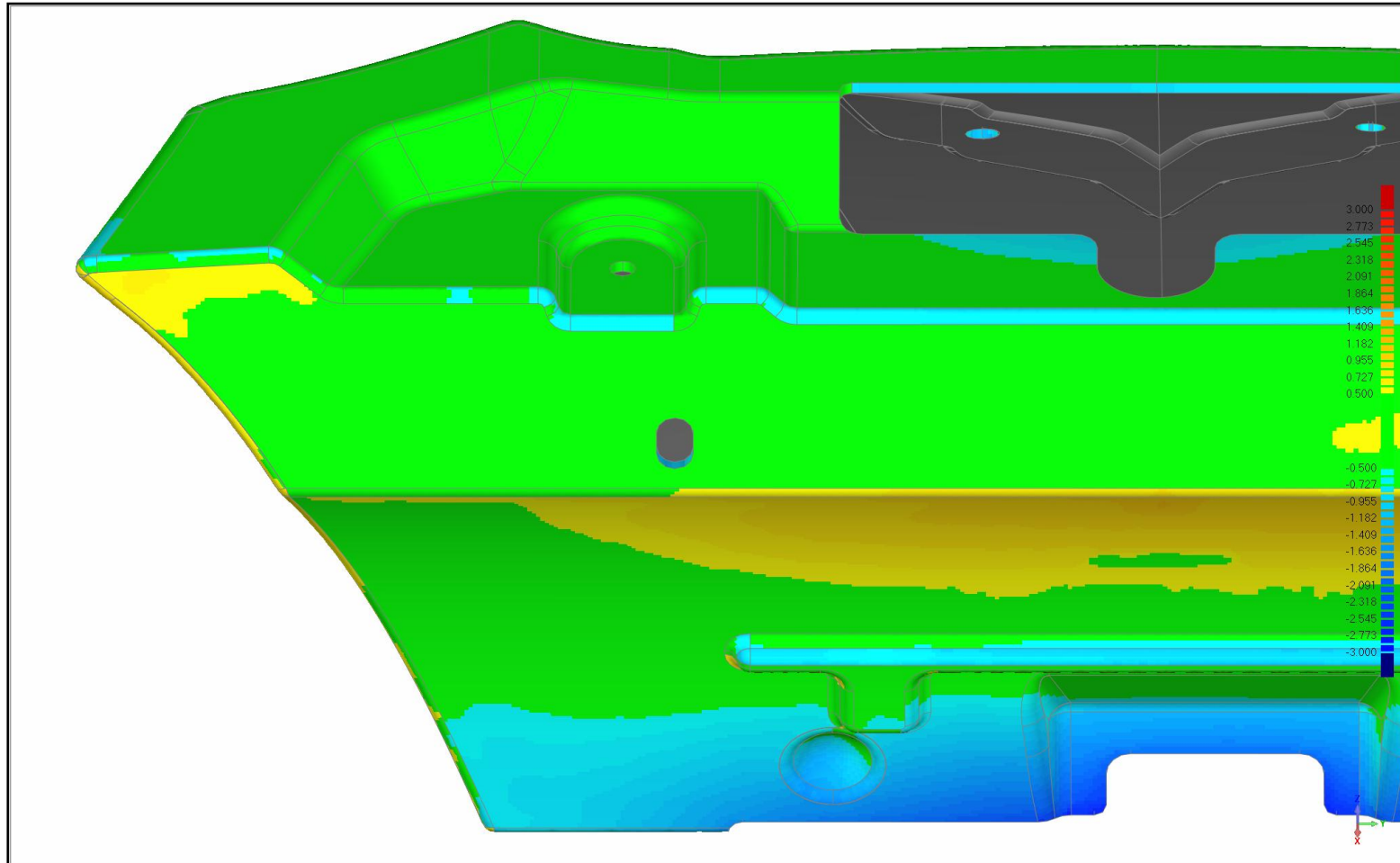
INSPECTION REPORT

UserDefined: QuickView 5



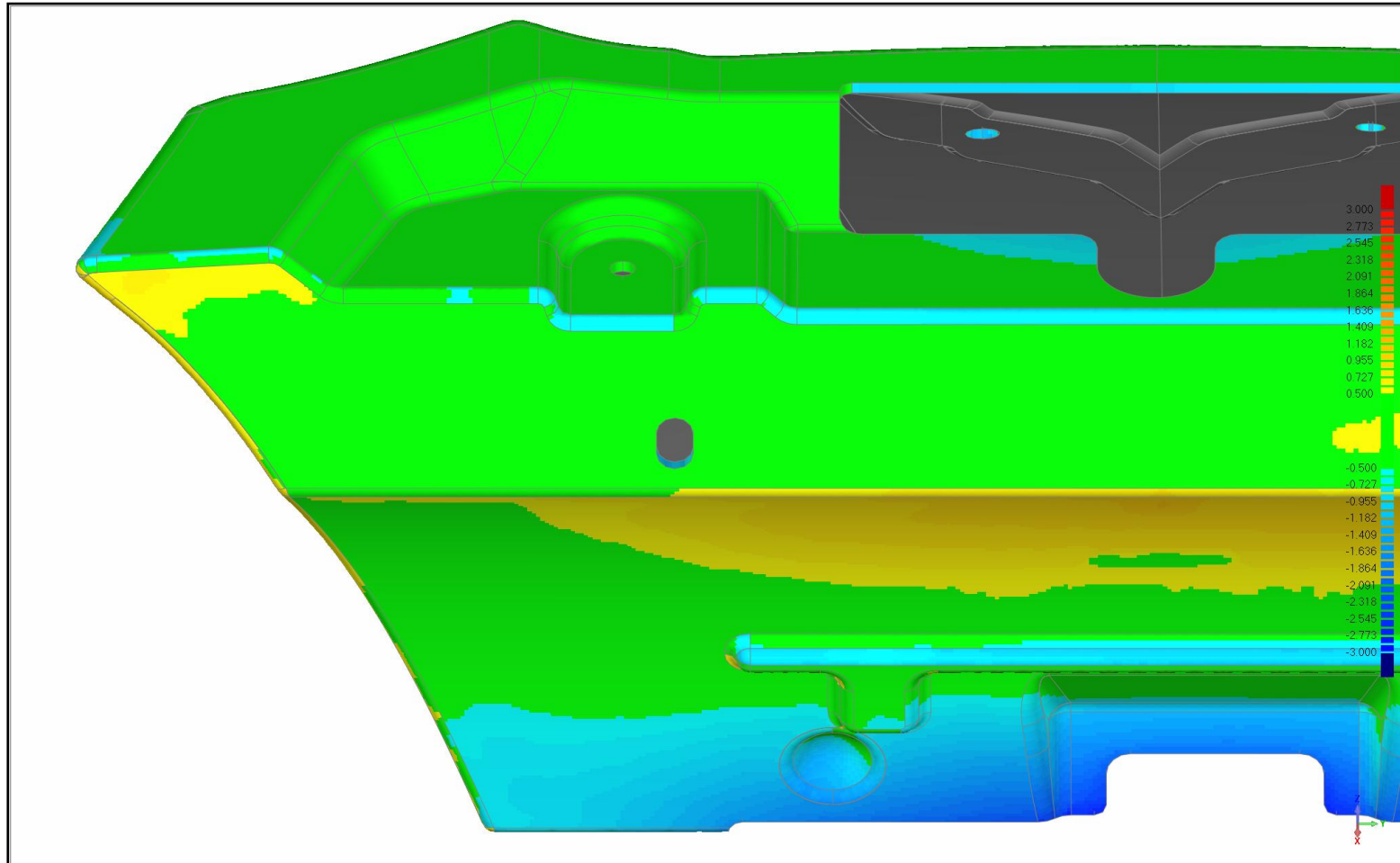
INSPECTION REPORT

UserDefined: QuickView 6



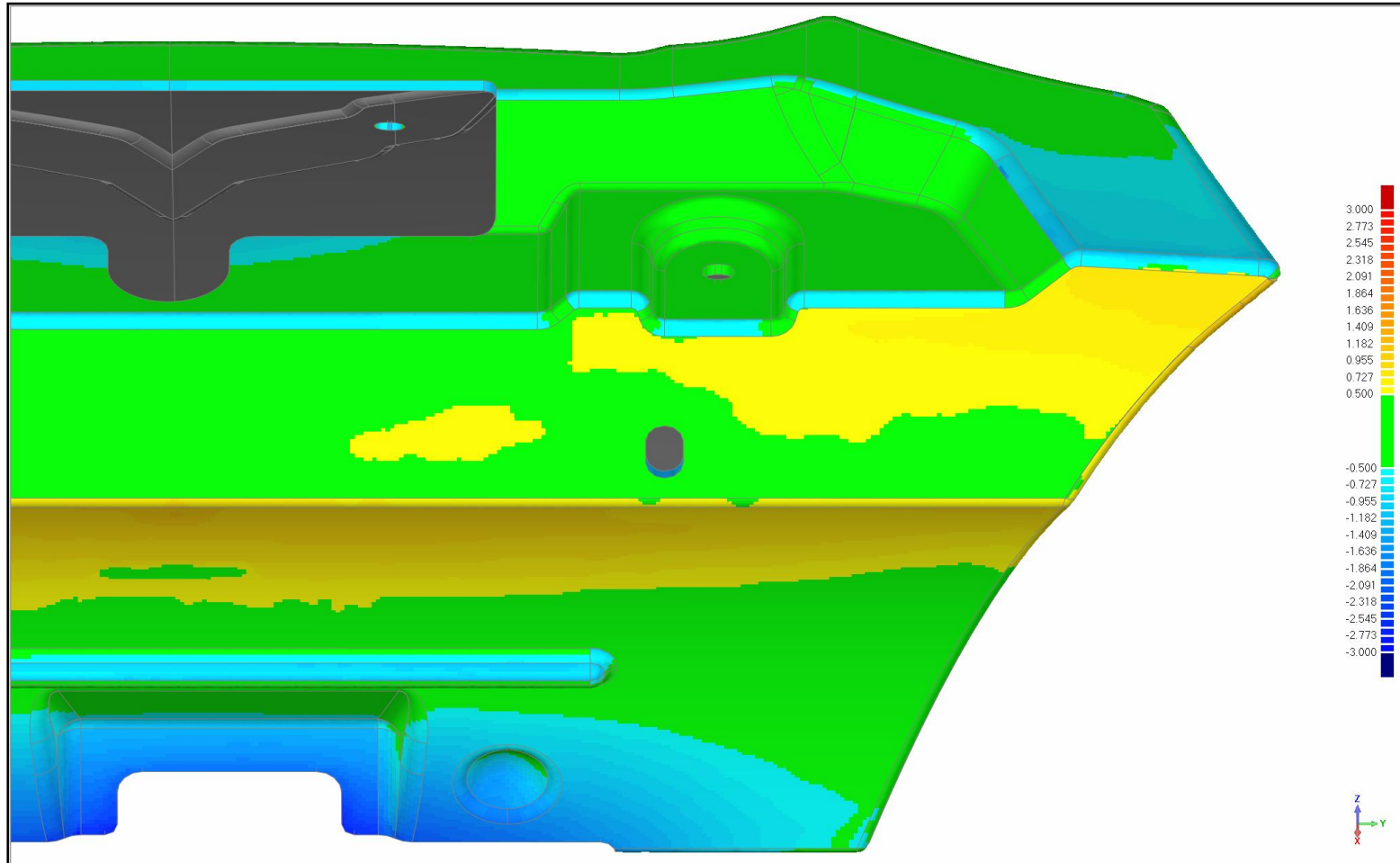
INSPECTION REPORT

UserDefined: QuickView 7



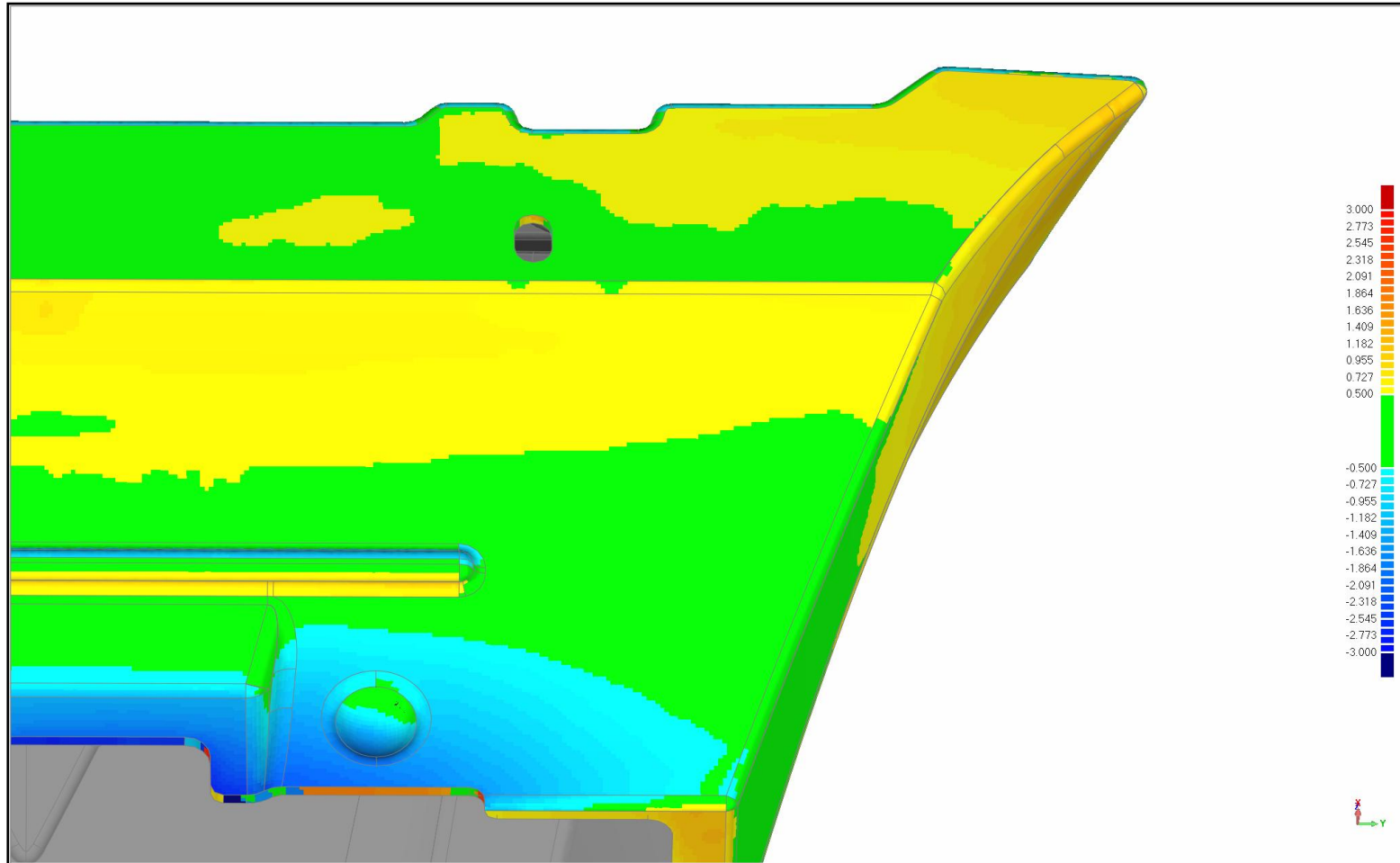
INSPECTION REPORT

UserDefined: QuickView 8



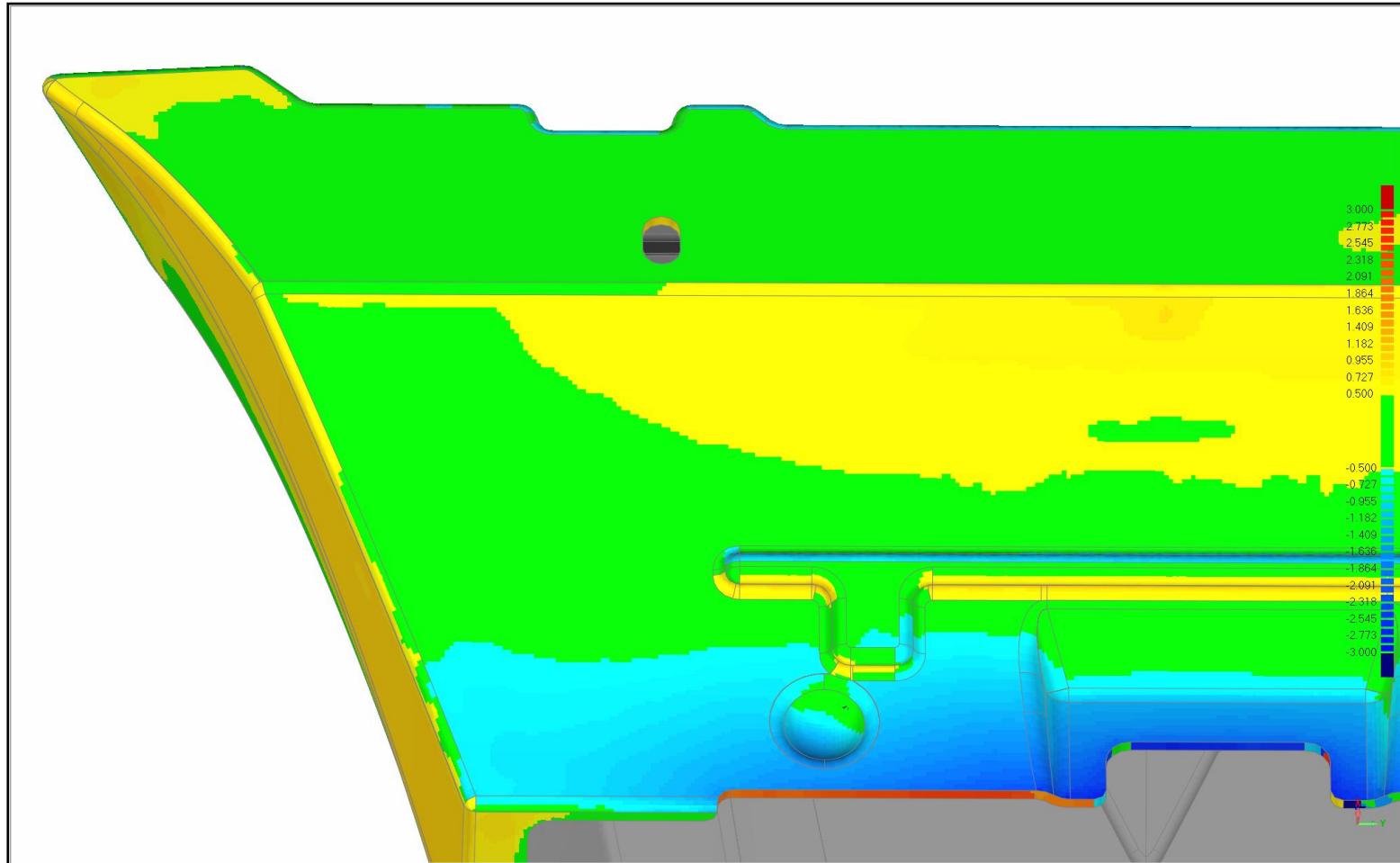
INSPECTION REPORT

UserDefined: QuickView 9



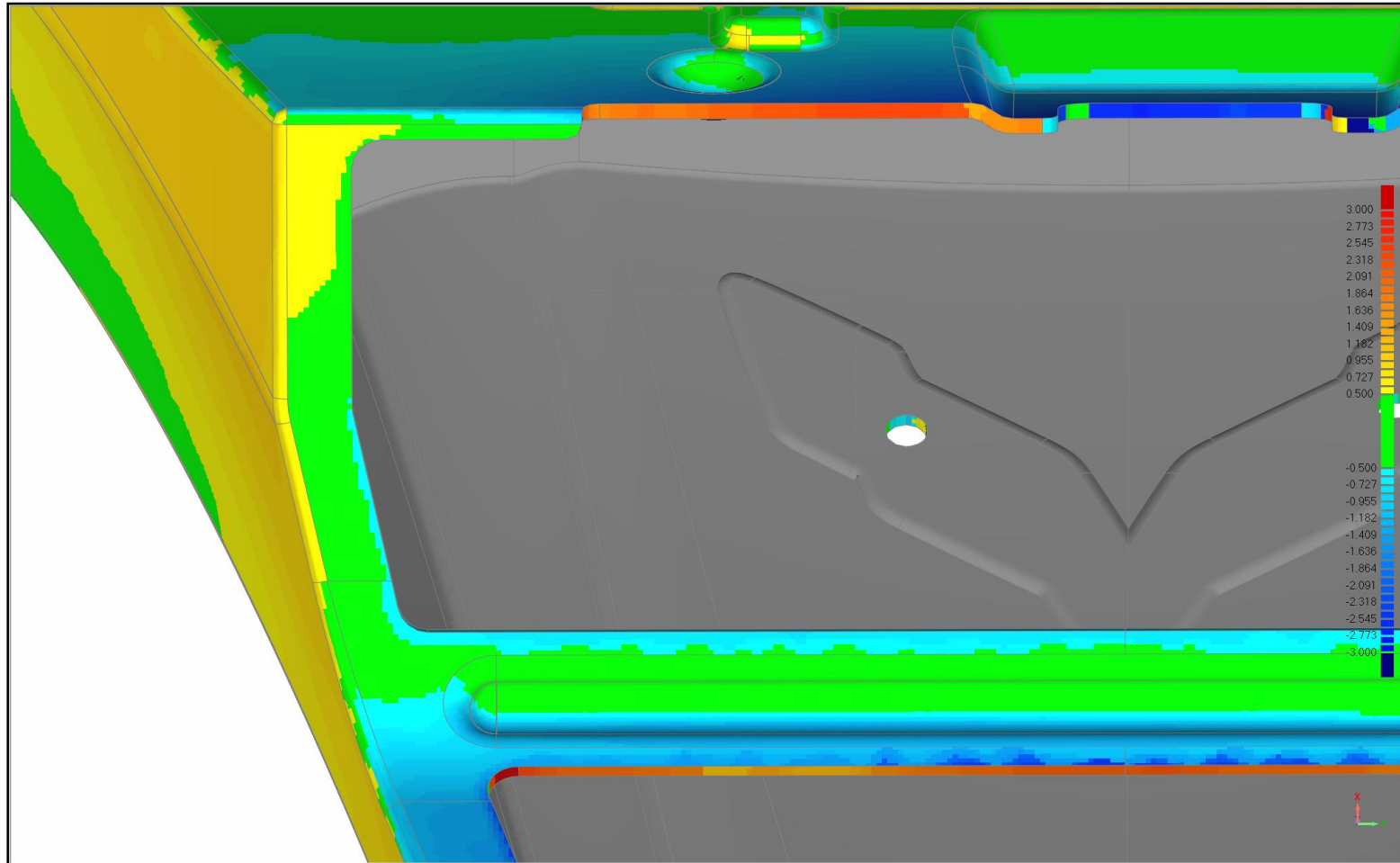
INSPECTION REPORT

UserDefined: QuickView 10



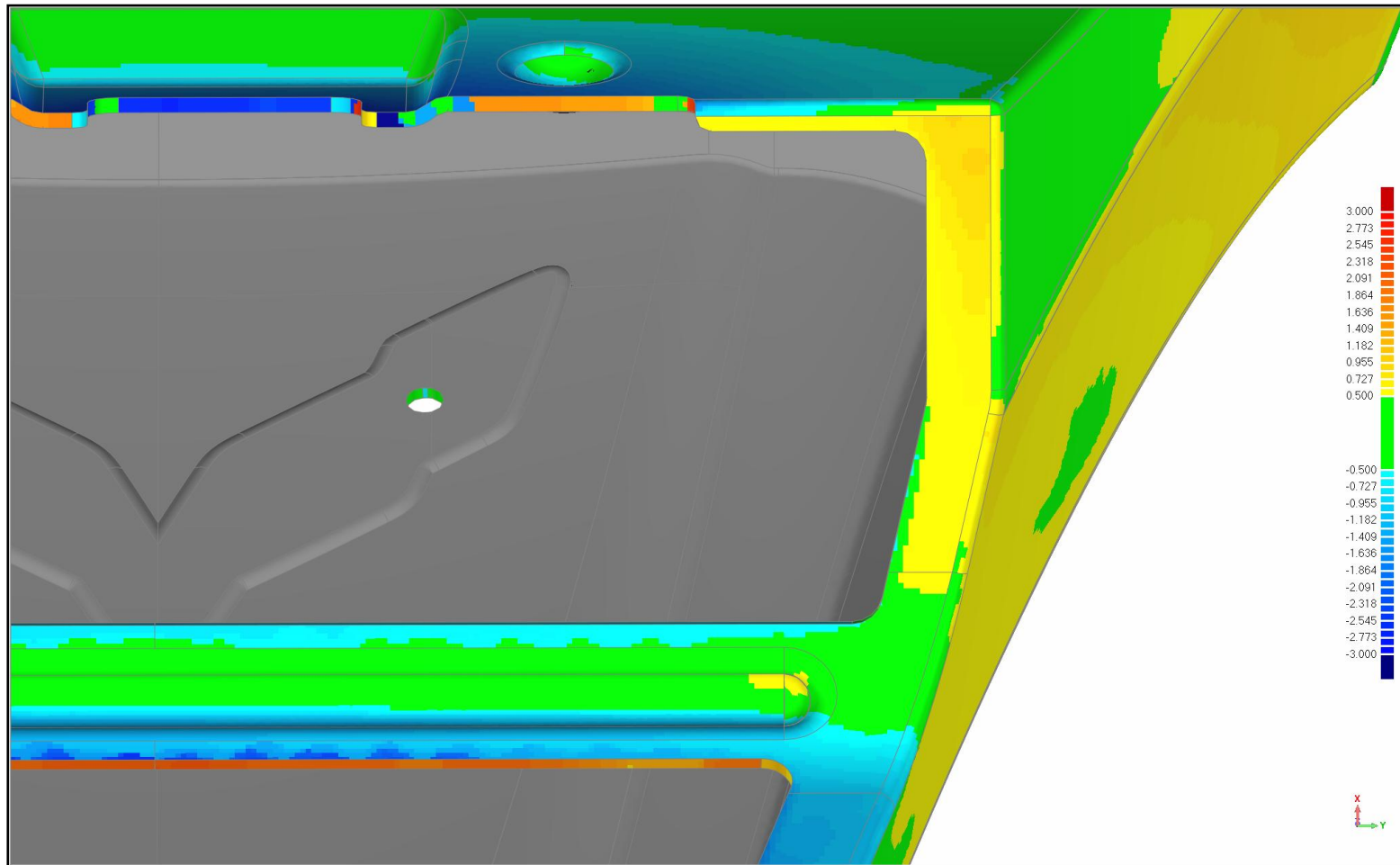
INSPECTION REPORT

UserDefined: QuickView 11



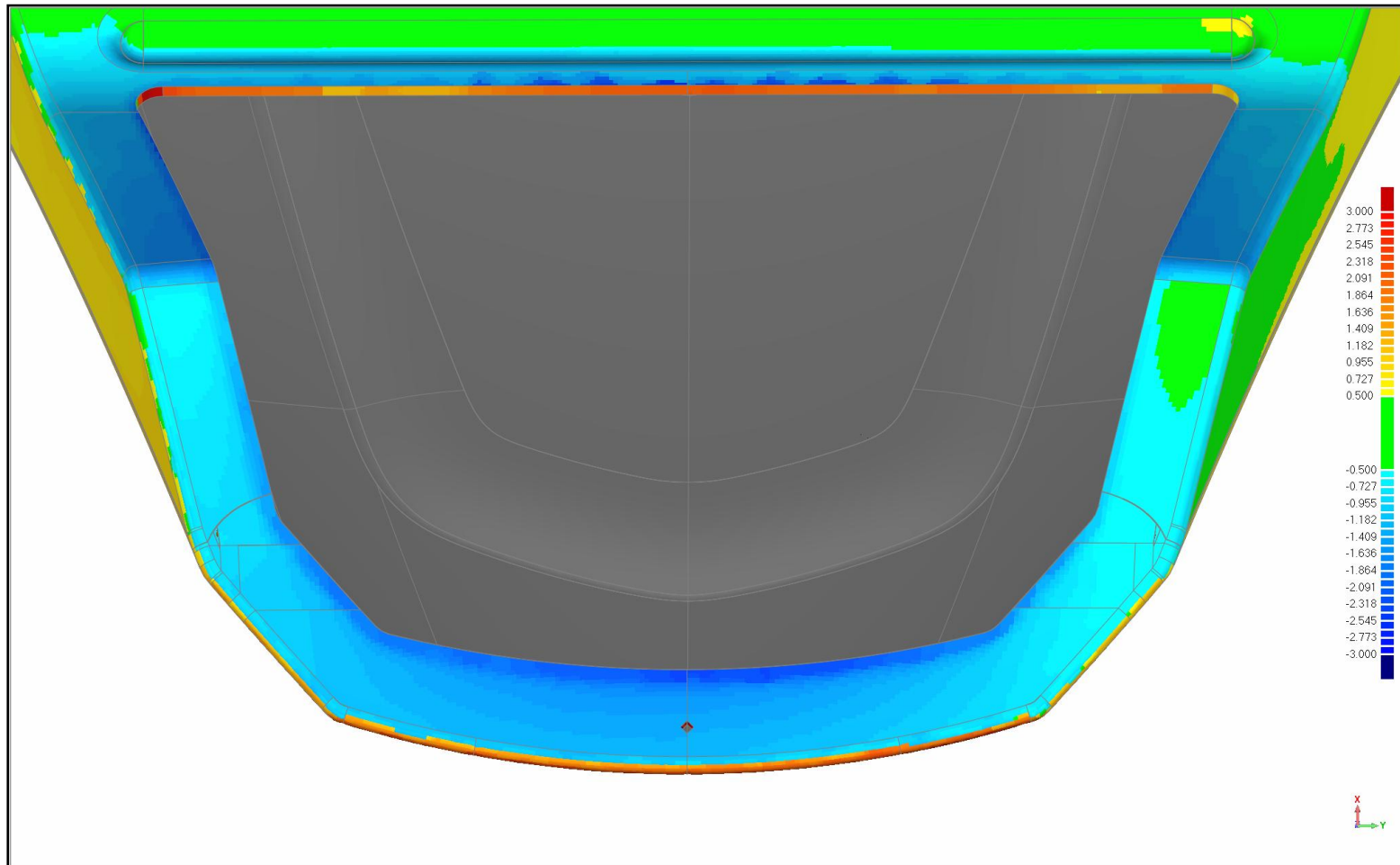
INSPECTION REPORT

UserDefined: QuickView 12



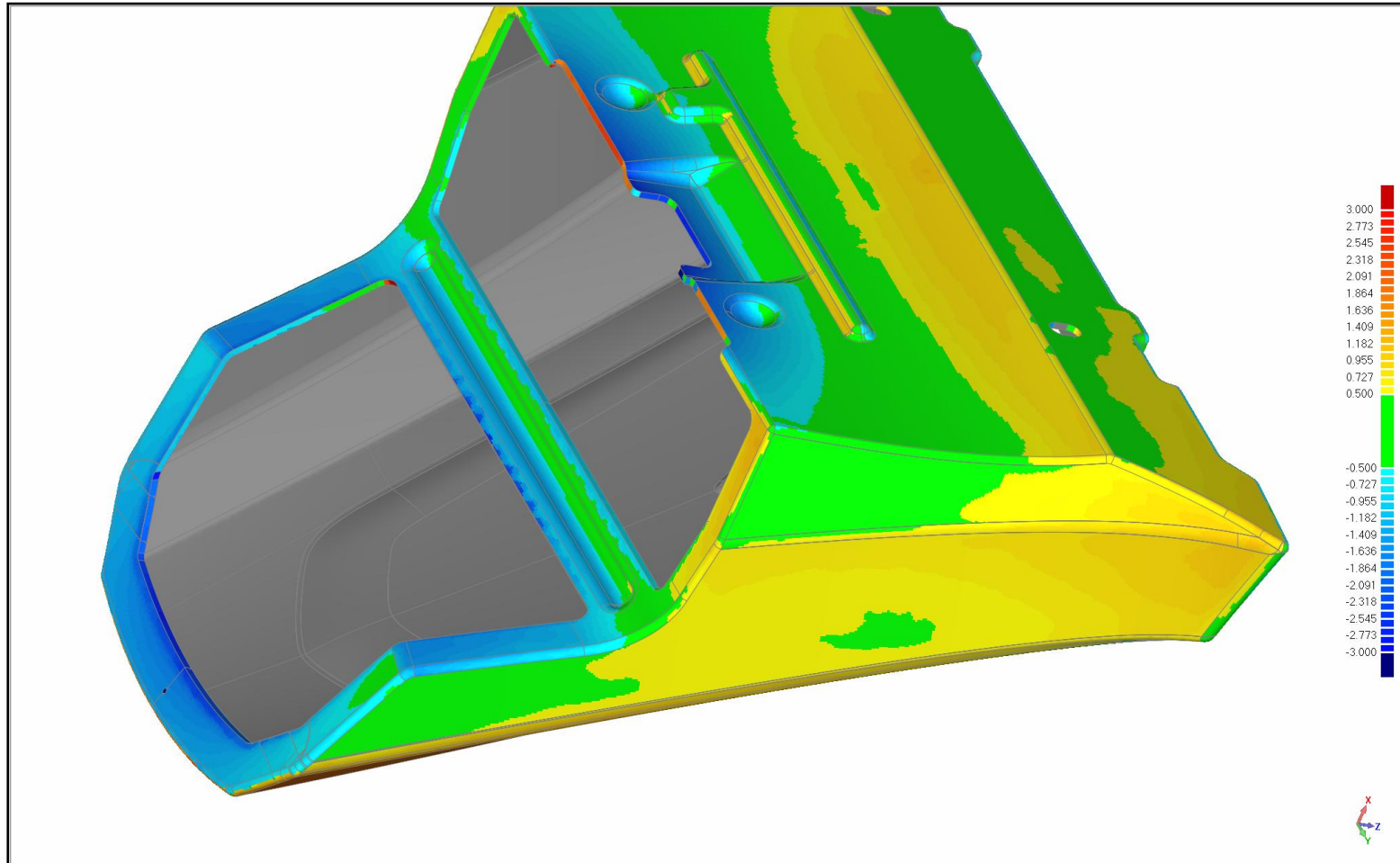
INSPECTION REPORT

UserDefined: QuickView 13



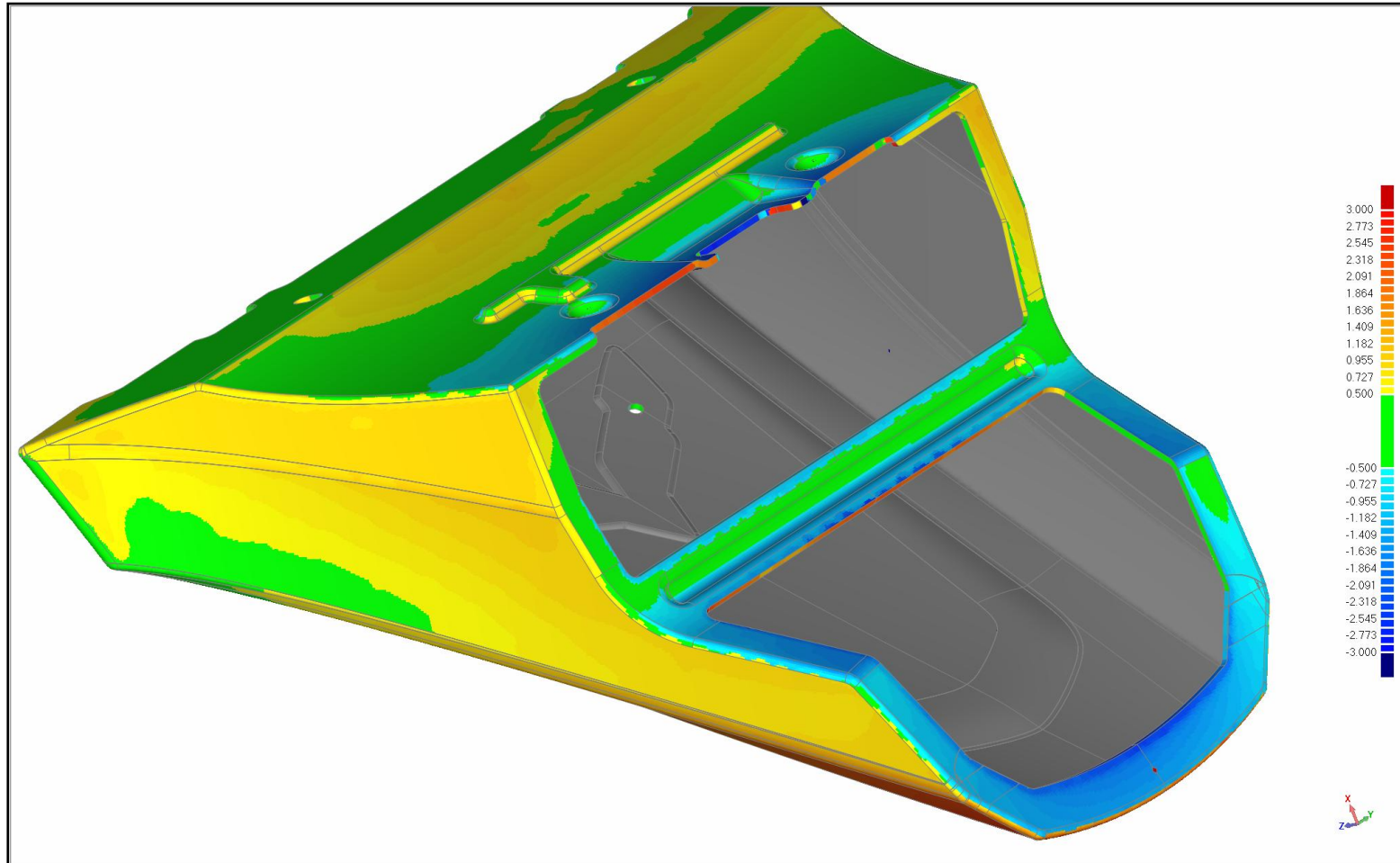
INSPECTION REPORT

UserDefined: QuickView 14



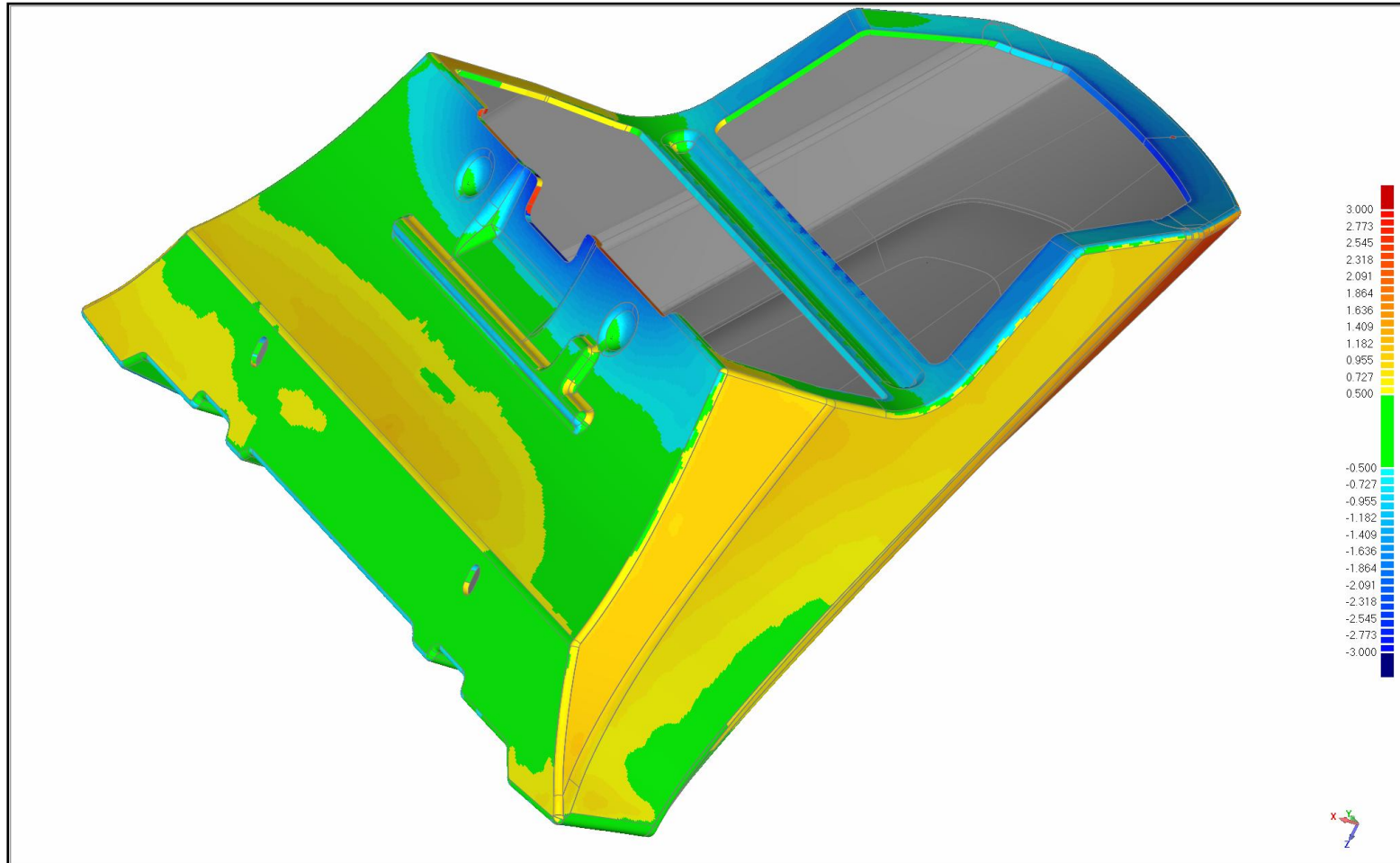
INSPECTION REPORT

UserDefined: QuickView 15



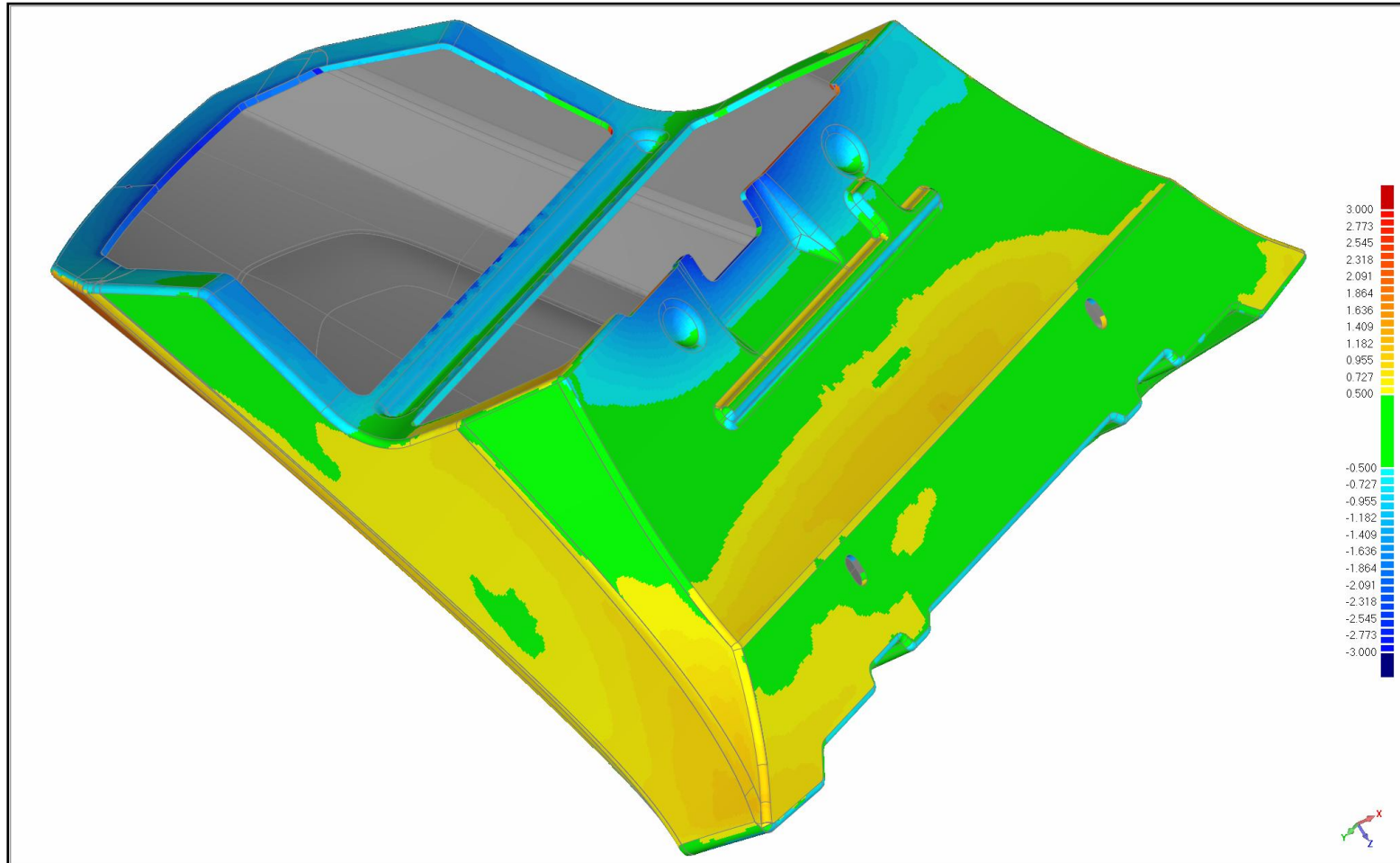
INSPECTION REPORT

UserDefined: QuickView 16



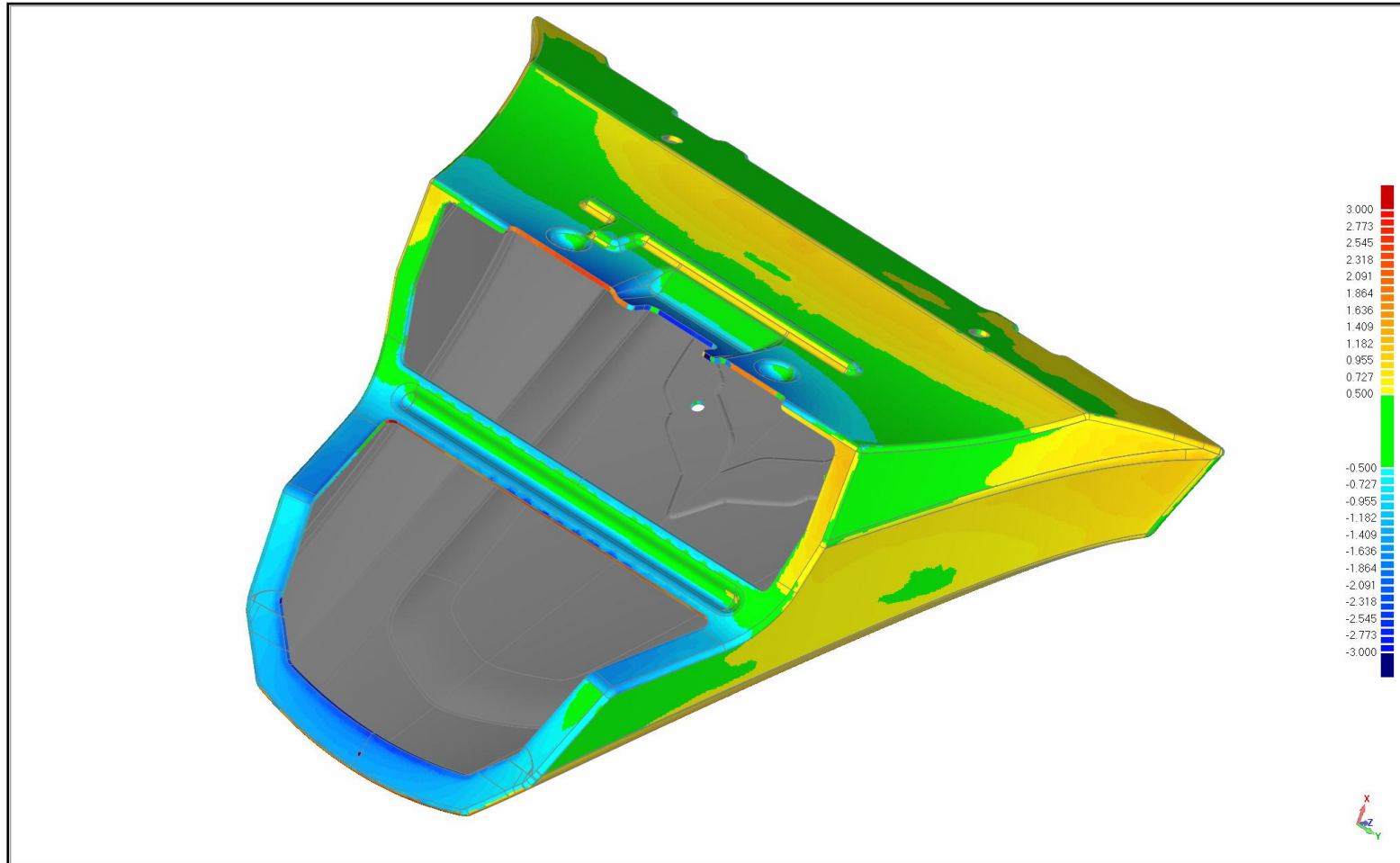
INSPECTION REPORT

UserDefined: QuickView 17



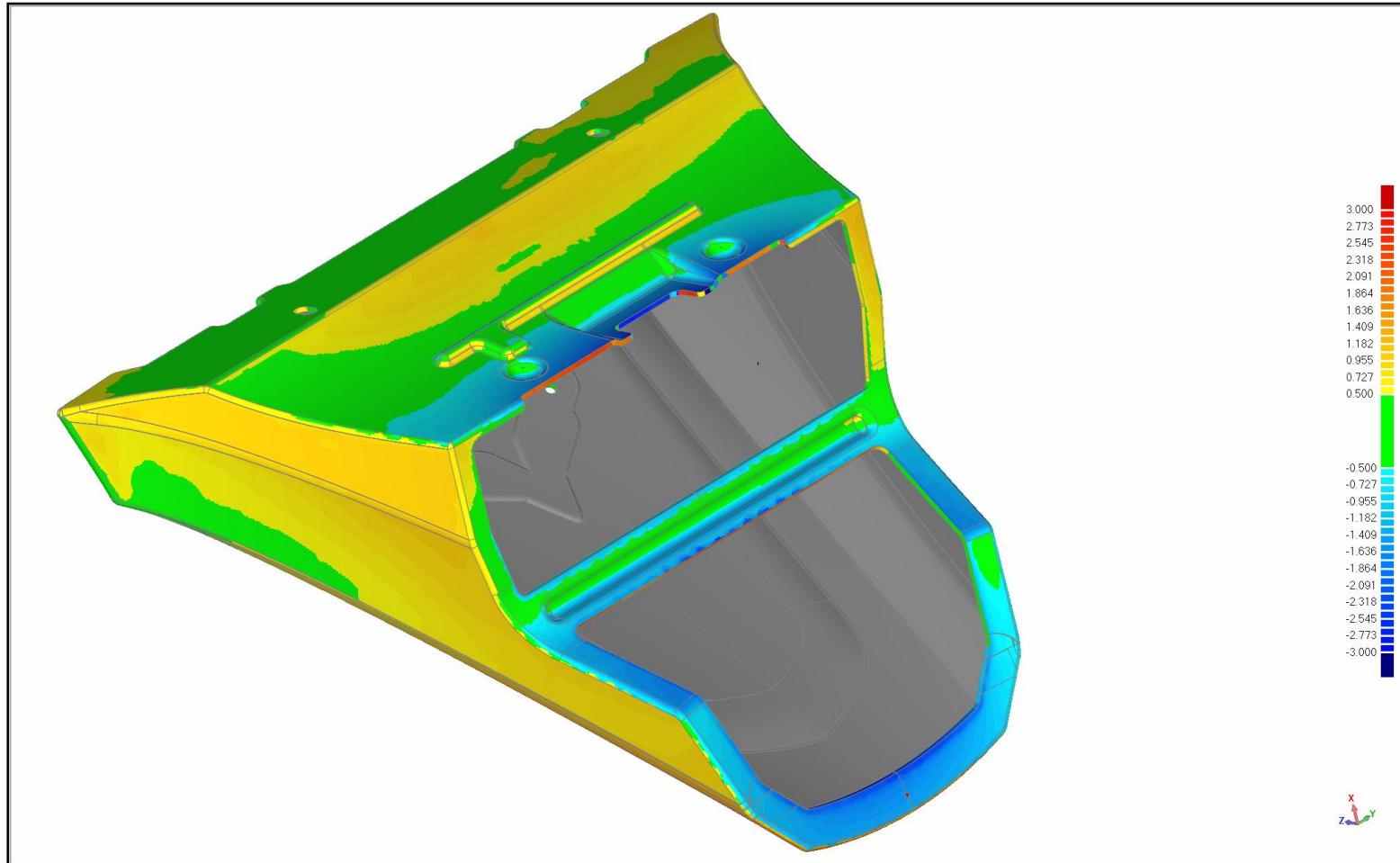
INSPECTION REPORT

UserDefined: QuickView 18



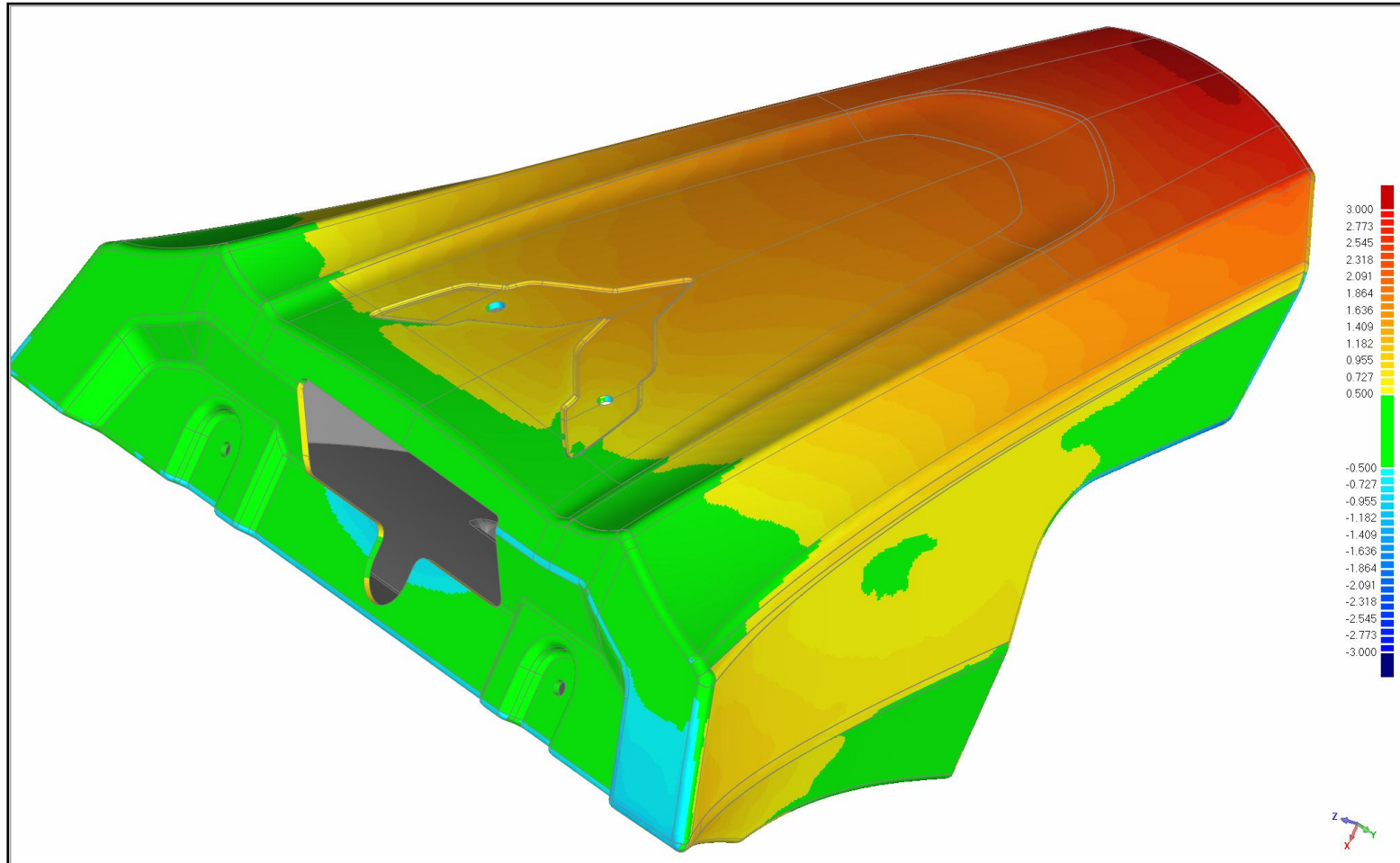
INSPECTION REPORT

UserDefined: QuickView 19



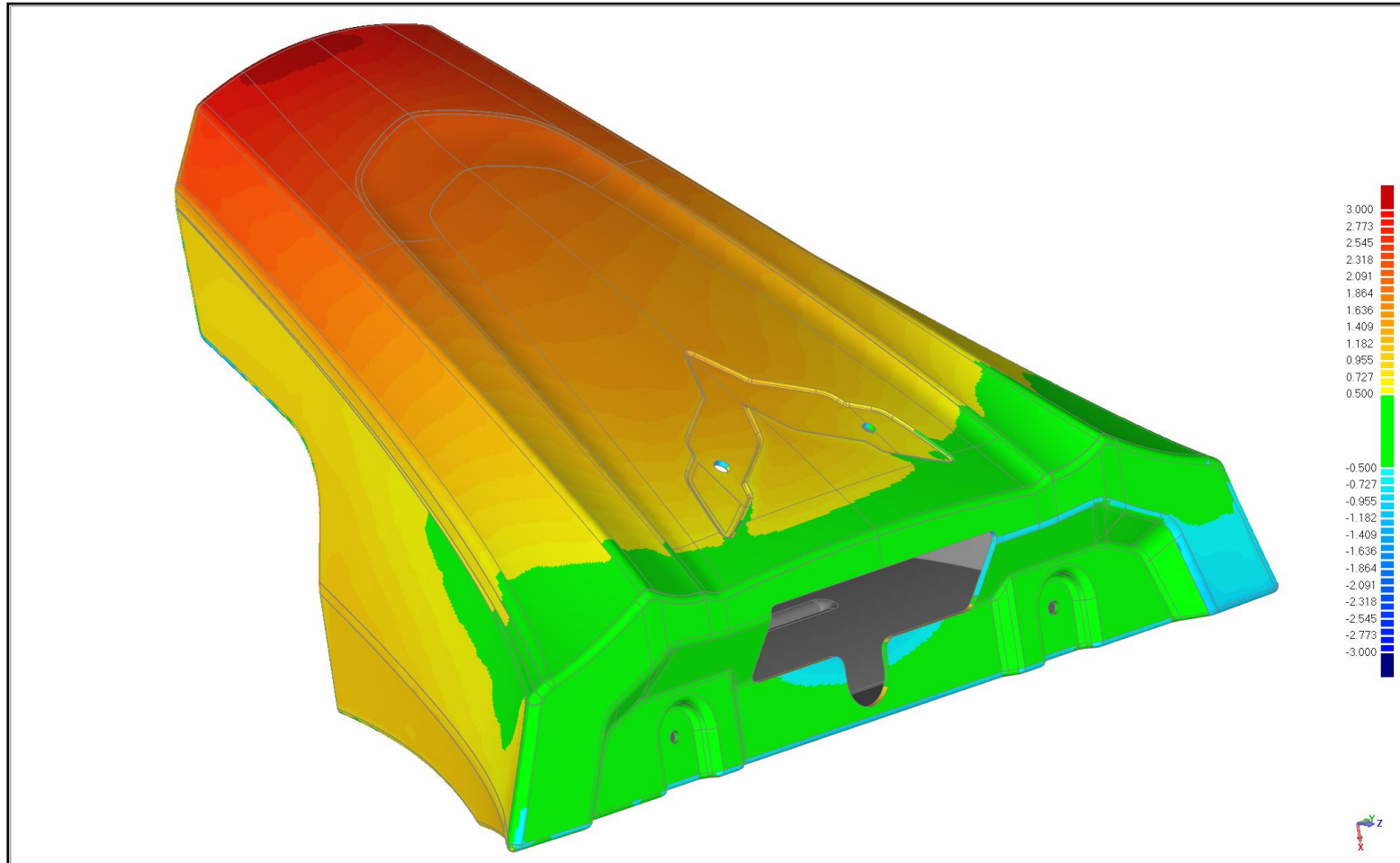
INSPECTION REPORT

UserDefined: QuickView 20



INSPECTION REPORT

UserDefined: QuickView 21



INSPECTION REPORT

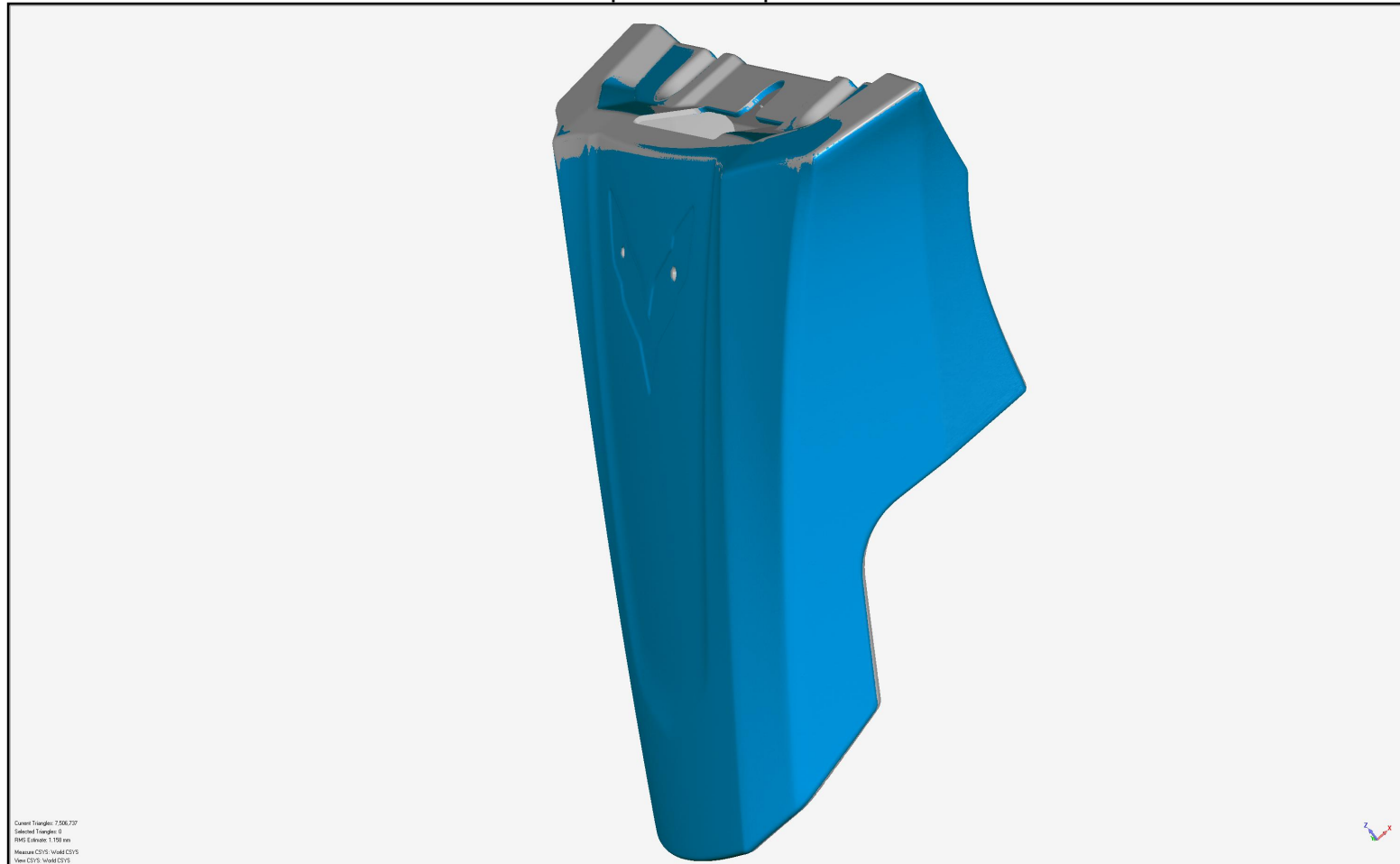
Snapshots: Snapshot 1



[GREY = CAD DATA] [BLUE = SCAN DATA]

INSPECTION REPORT

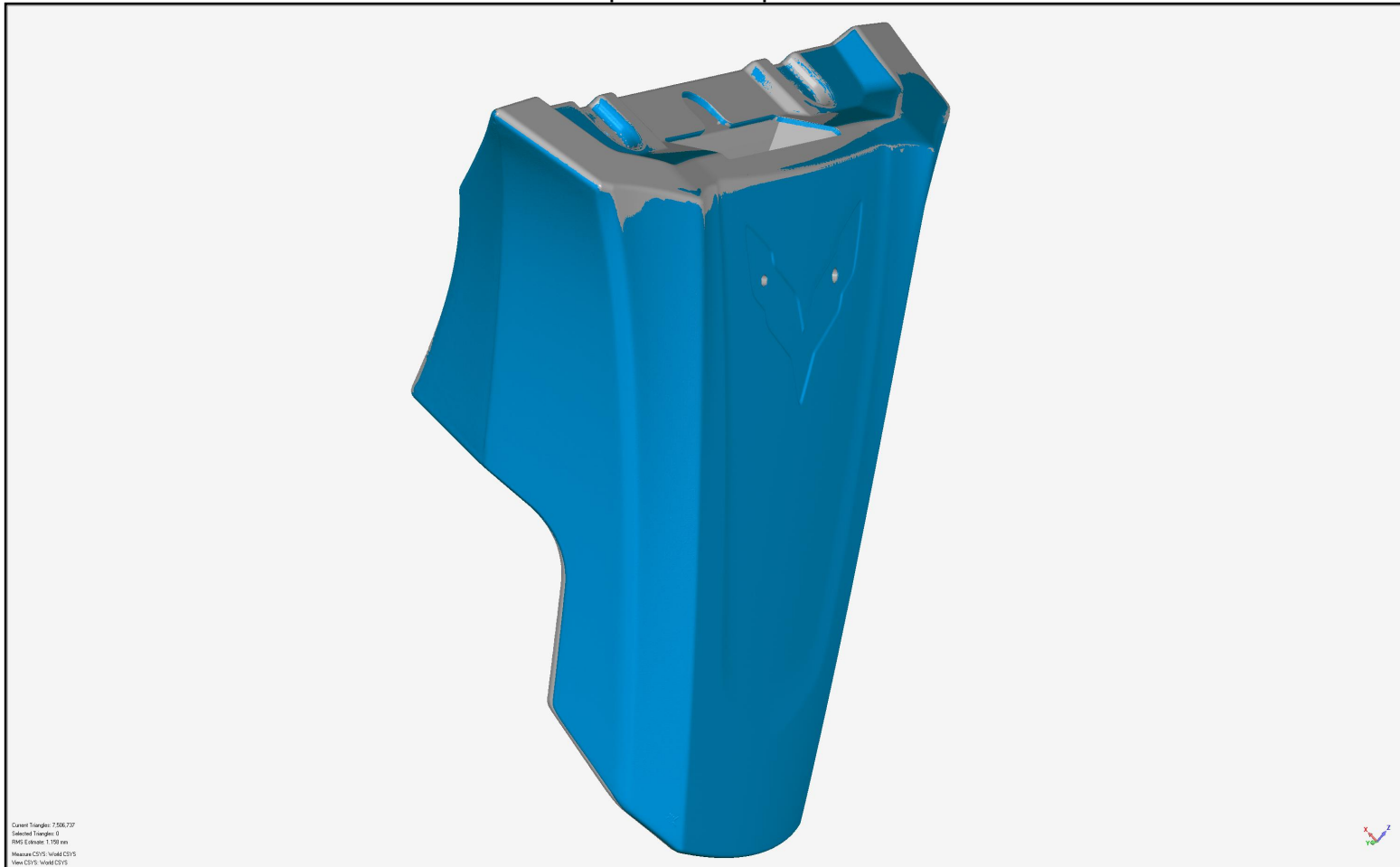
Snapshots: Snapshot 2



[GREY = CAD DATA] [BLUE = SCAN DATA]

INSPECTION REPORT

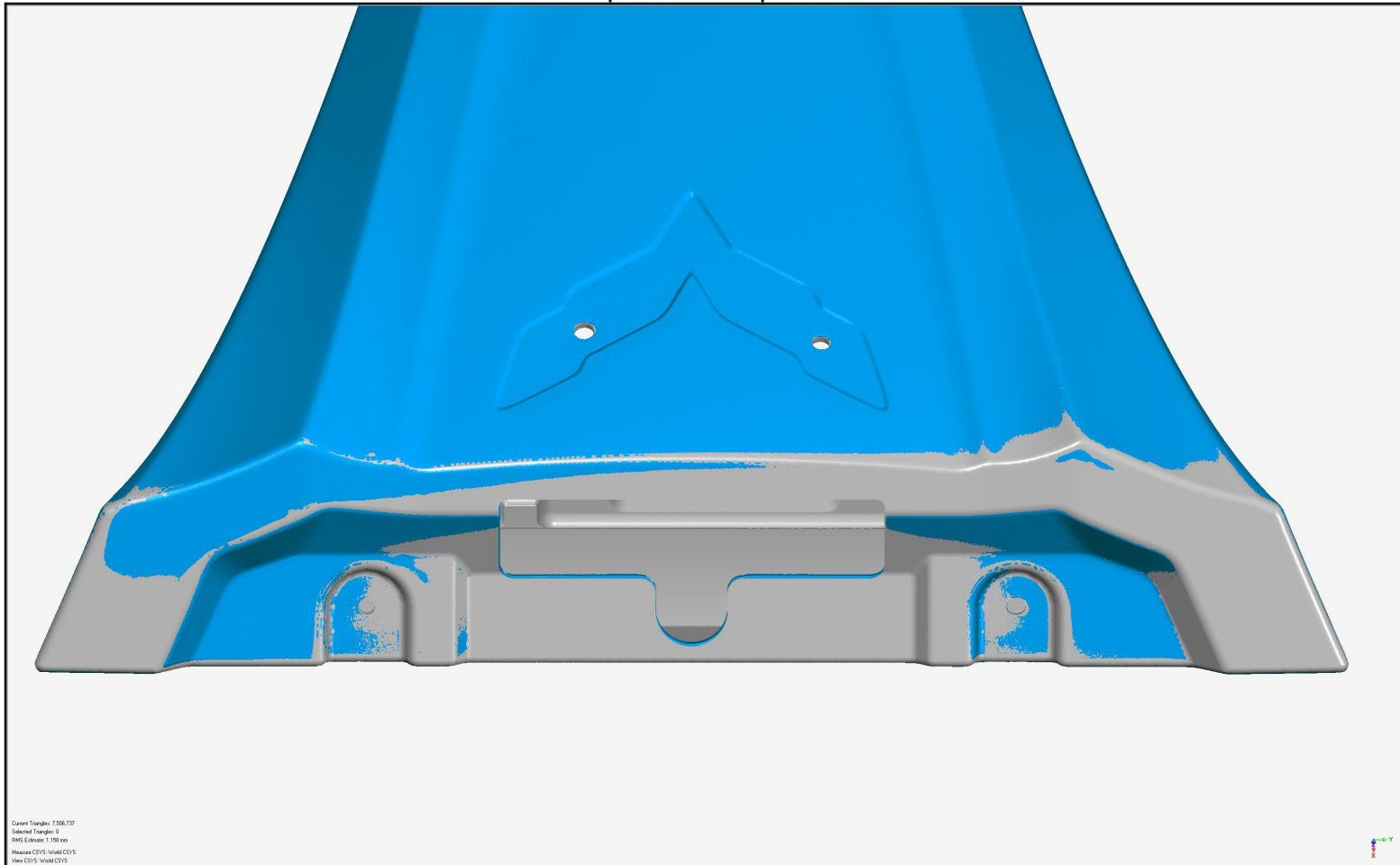
Snapshots: Snapshot 3



[GREY = CAD DATA] [BLUE = SCAN DATA]

INSPECTION REPORT

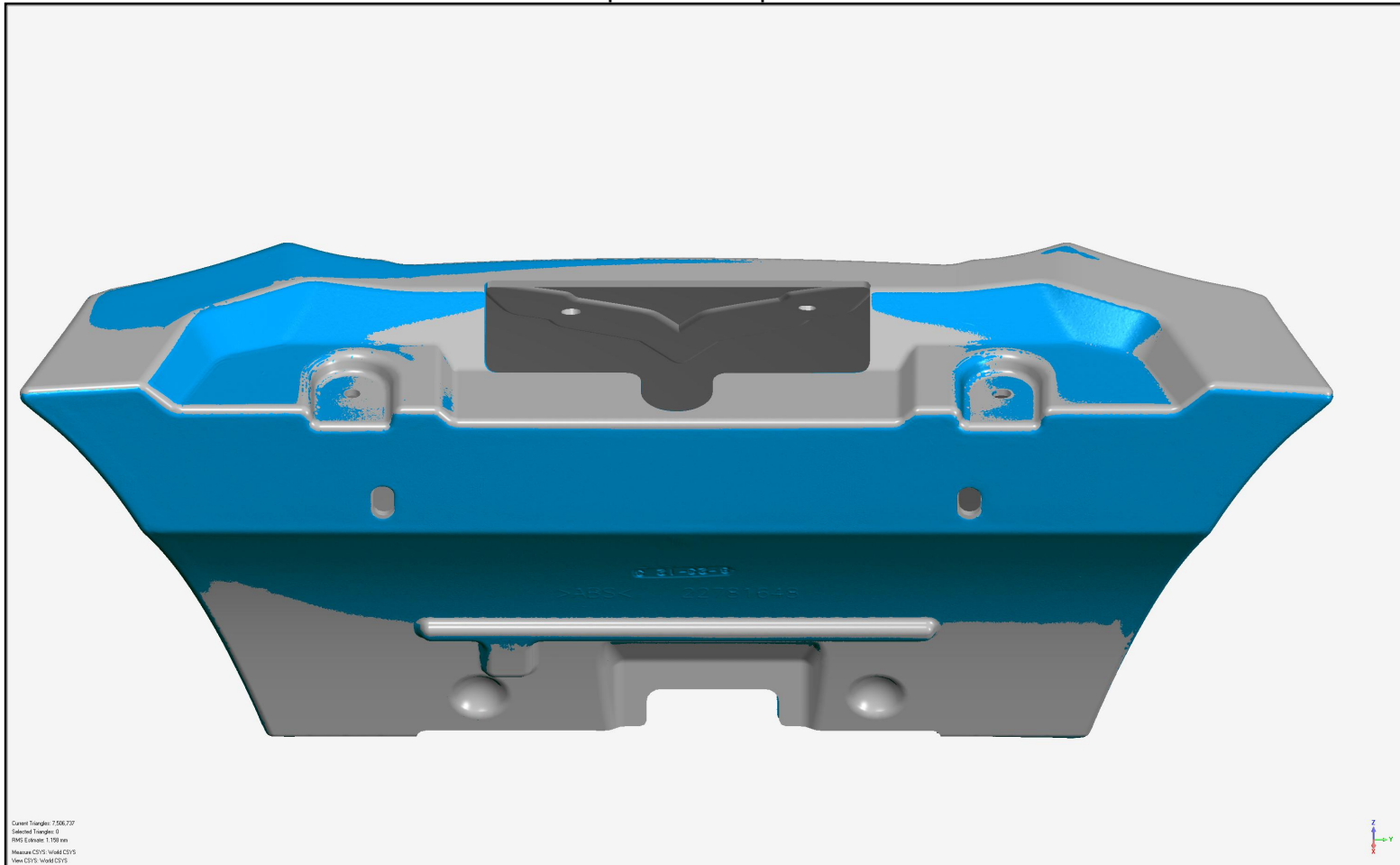
Snapshots: Snapshot 4



[GREY = CAD DATA] [BLUE = SCAN DATA]

INSPECTION REPORT

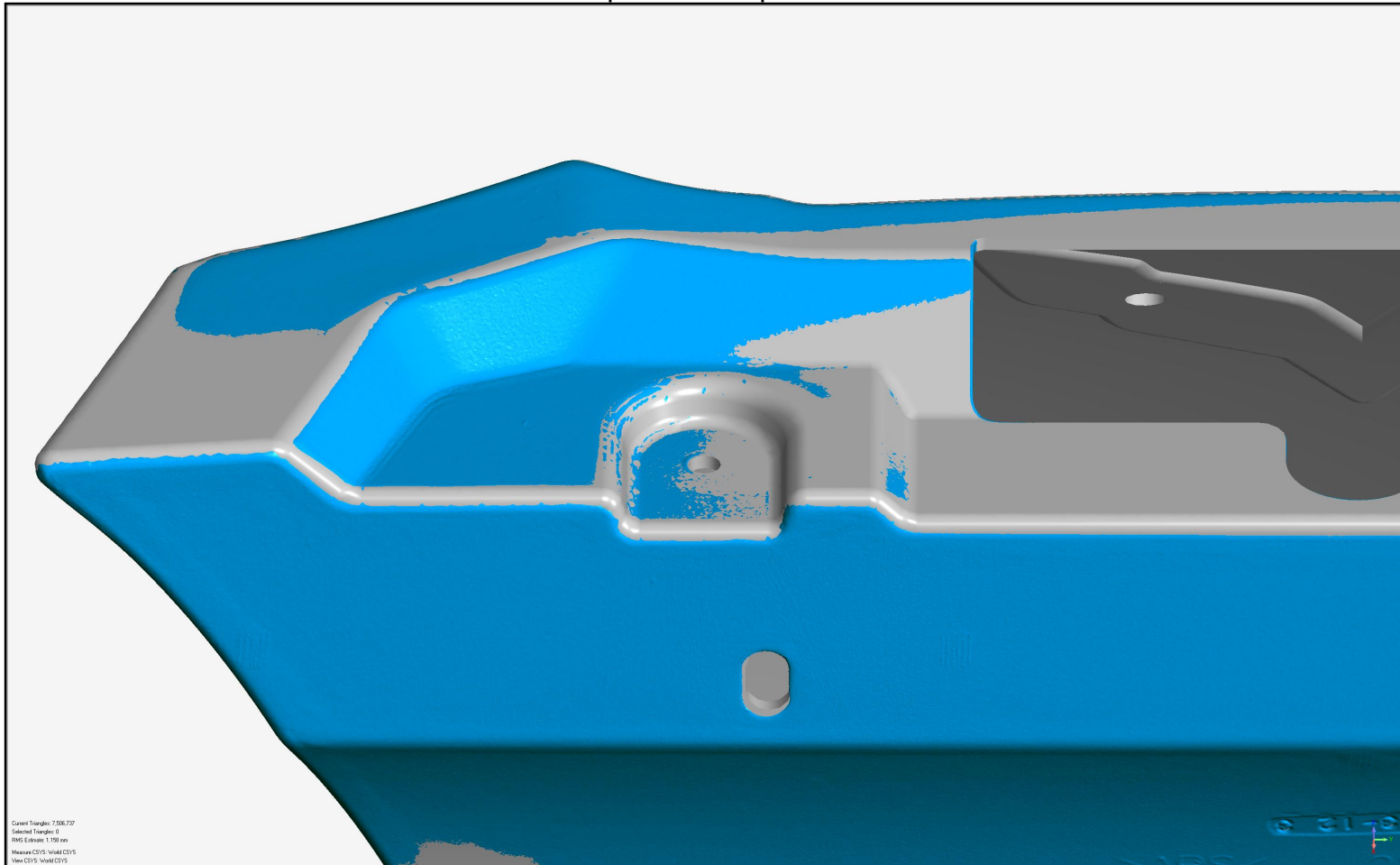
Snapshots: Snapshot 5



[GREY = CAD DATA] [BLUE = SCAN DATA]

INSPECTION REPORT

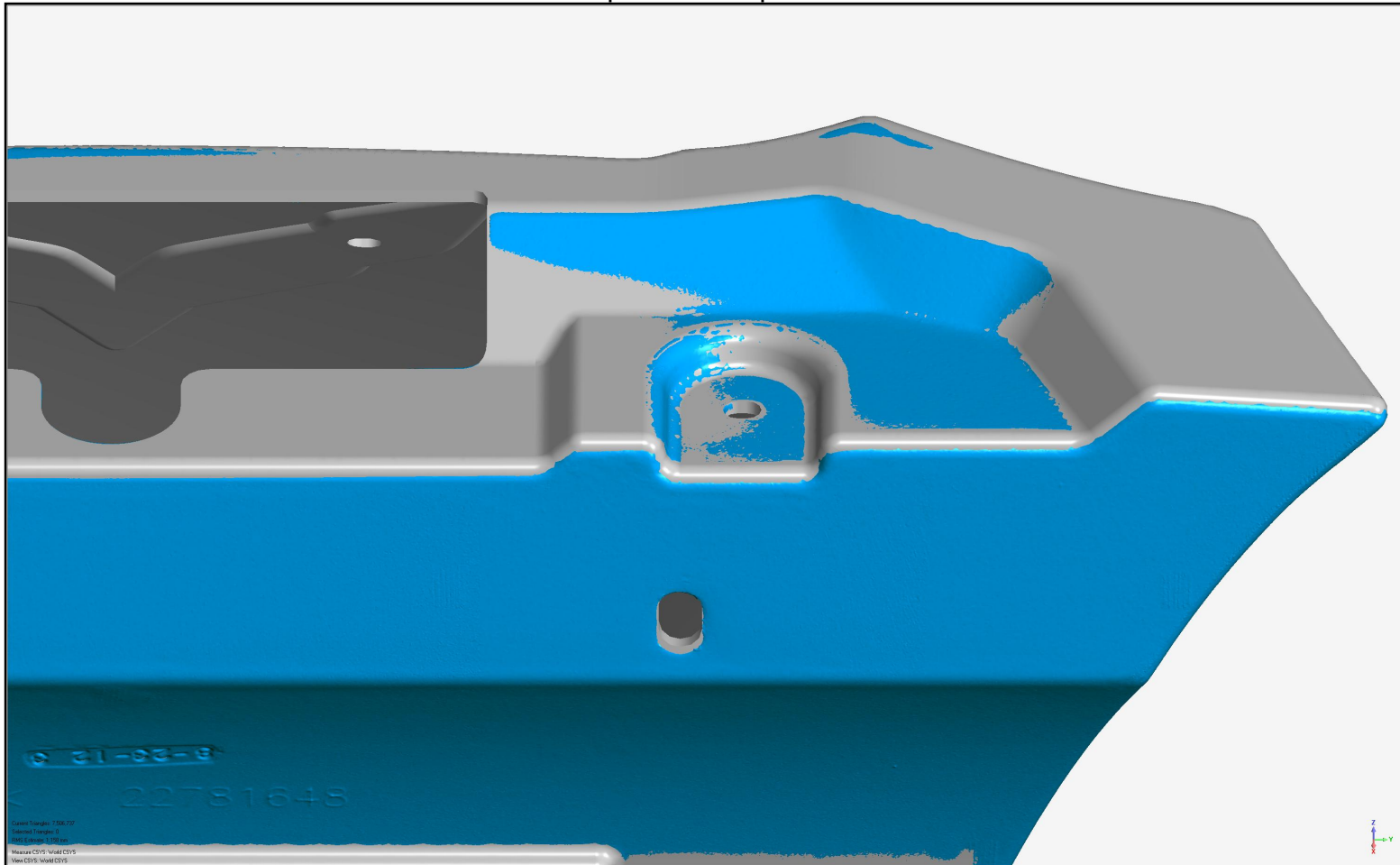
Snapshots: Snapshot 6



[GREY = CAD DATA] [BLUE = SCAN DATA]

INSPECTION REPORT

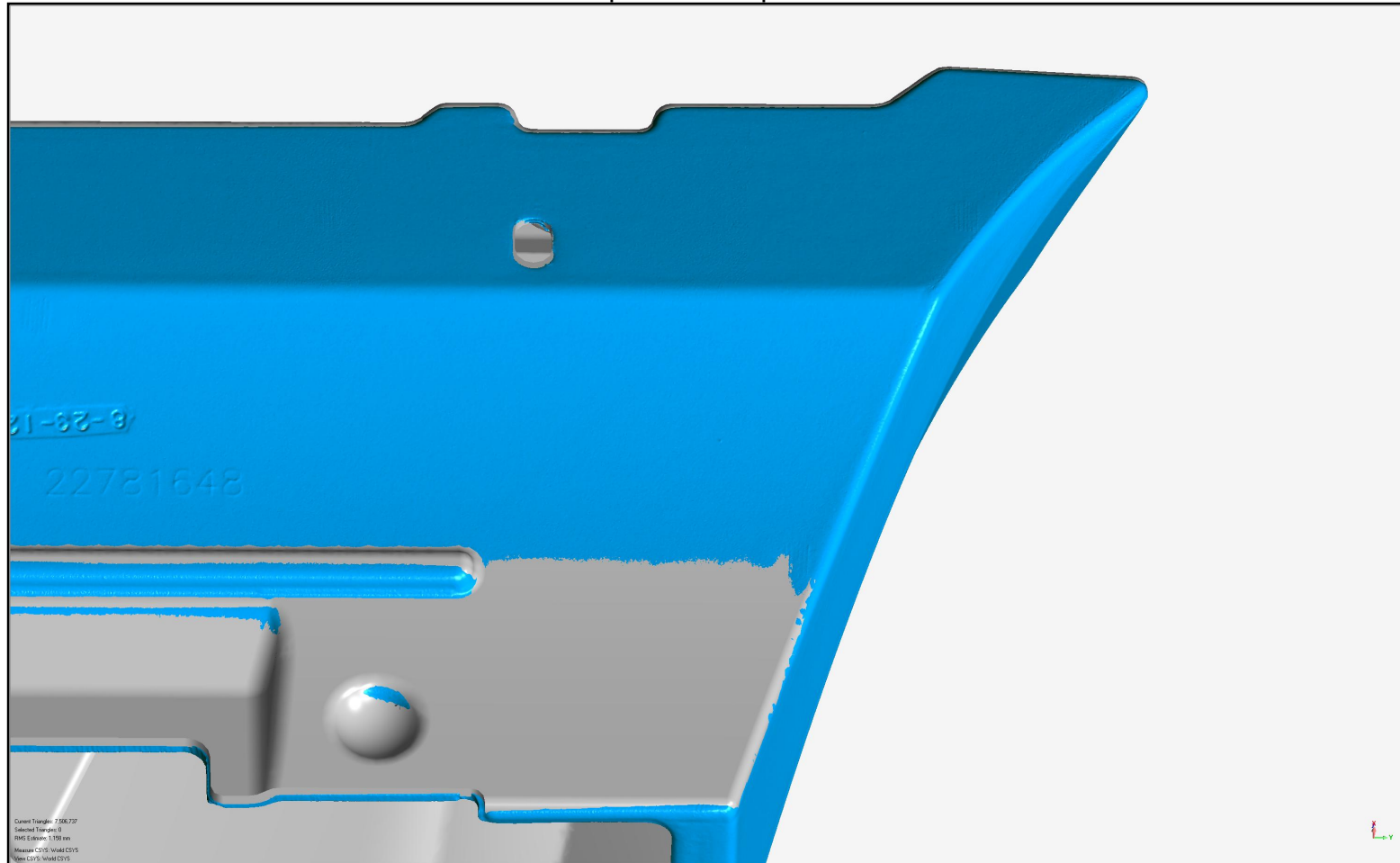
Snapshots: Snapshot 7



[GREY = CAD DATA] [BLUE = SCAN DATA]

INSPECTION REPORT

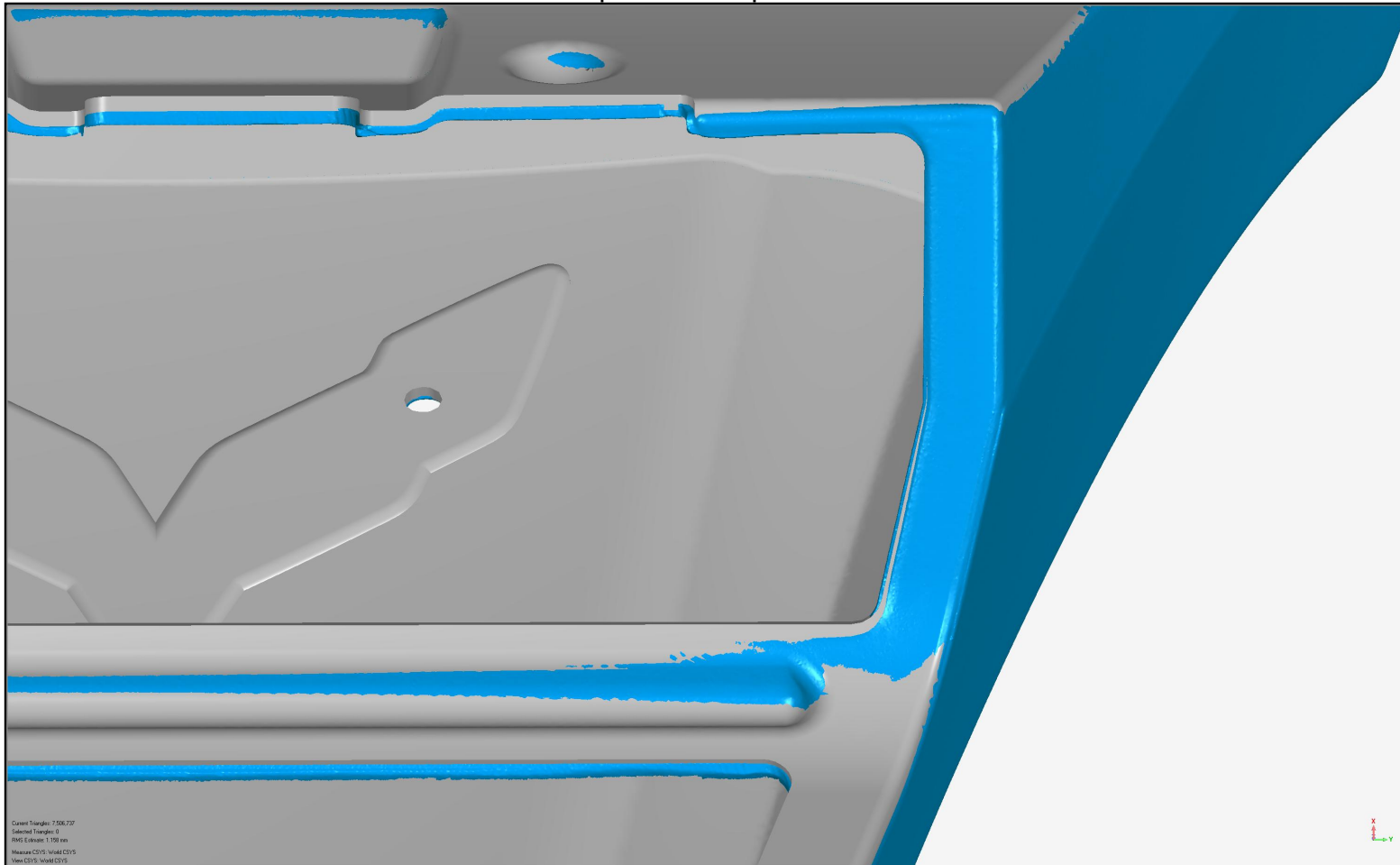
Snapshots: Snapshot 8



[GREY = CAD DATA] [BLUE = SCAN DATA]

INSPECTION REPORT

Snapshots: Snapshot 11

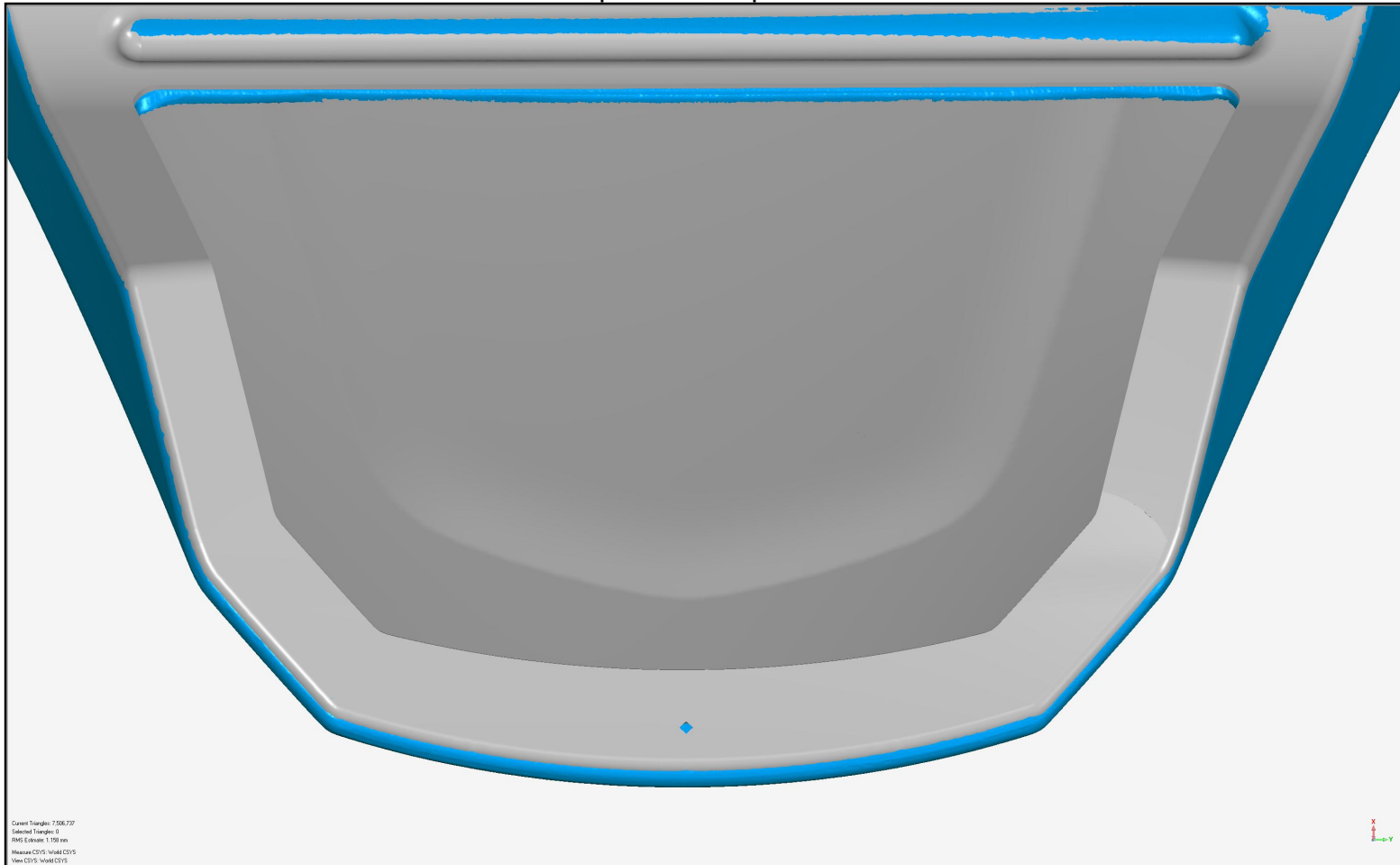


Current Triangles: 7,556,737
Selected Triangles: 0
RMG Layer(s): 1,150 mm
Shower: C:\S:\HMM\CVS
Max CVS: World CVS

[GREY = CAD DATA] [BLUE = SCAN DATA]

INSPECTION REPORT

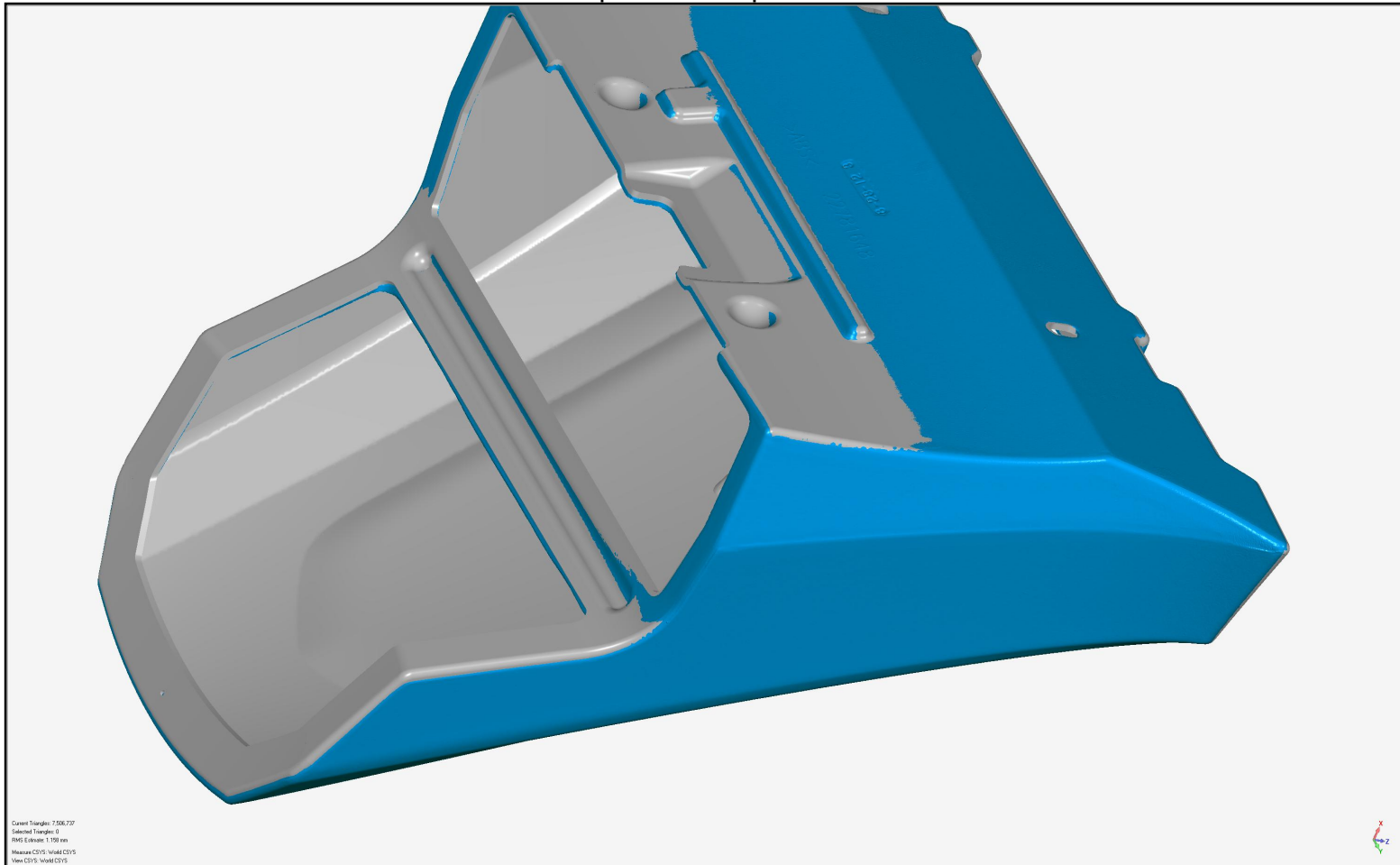
Snapshots: Snapshot 12



[GREY = CAD DATA] [BLUE = SCAN DATA]

INSPECTION REPORT

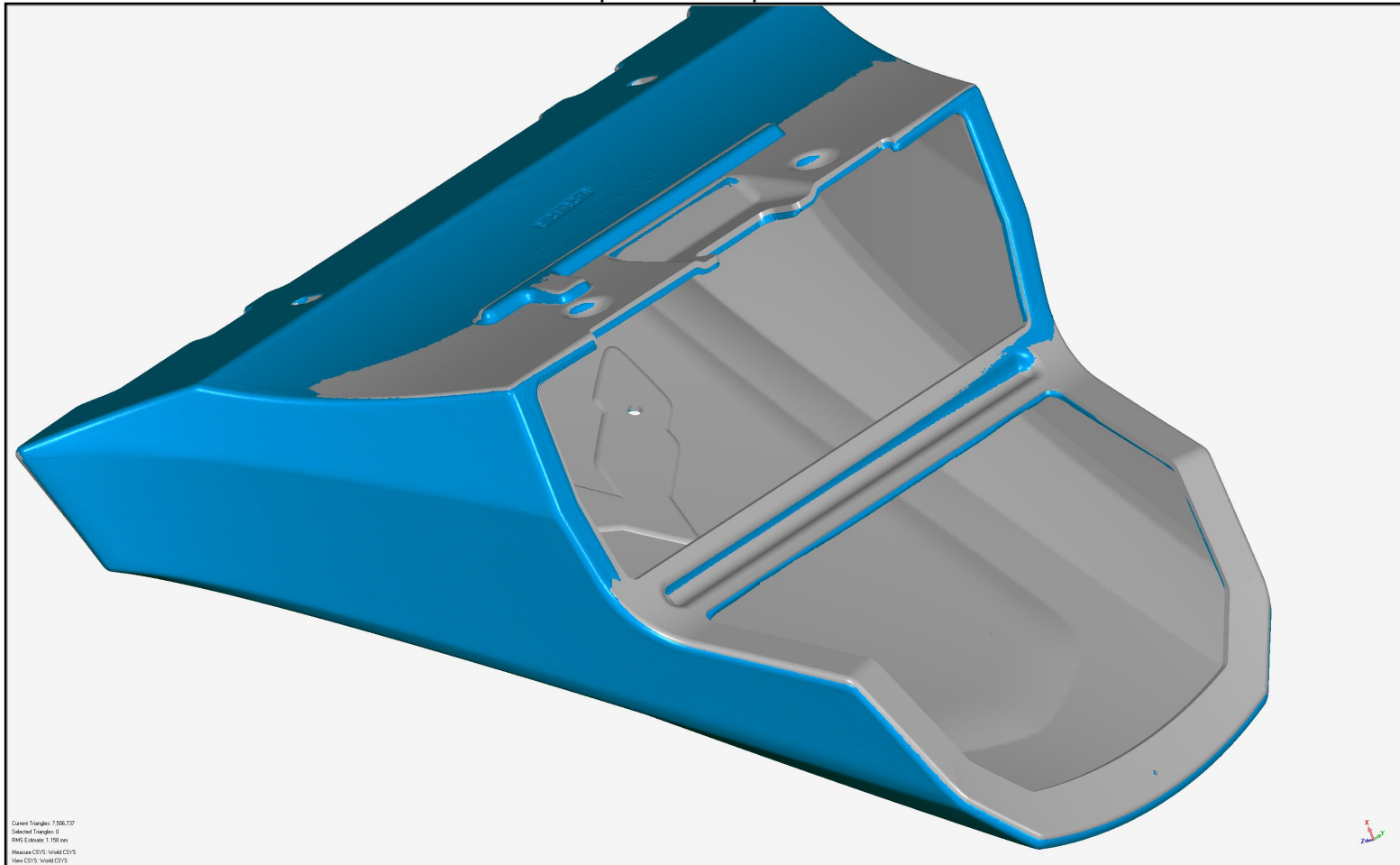
Snapshots: Snapshot 13



[GREY = CAD DATA] [BLUE = SCAN DATA]

INSPECTION REPORT

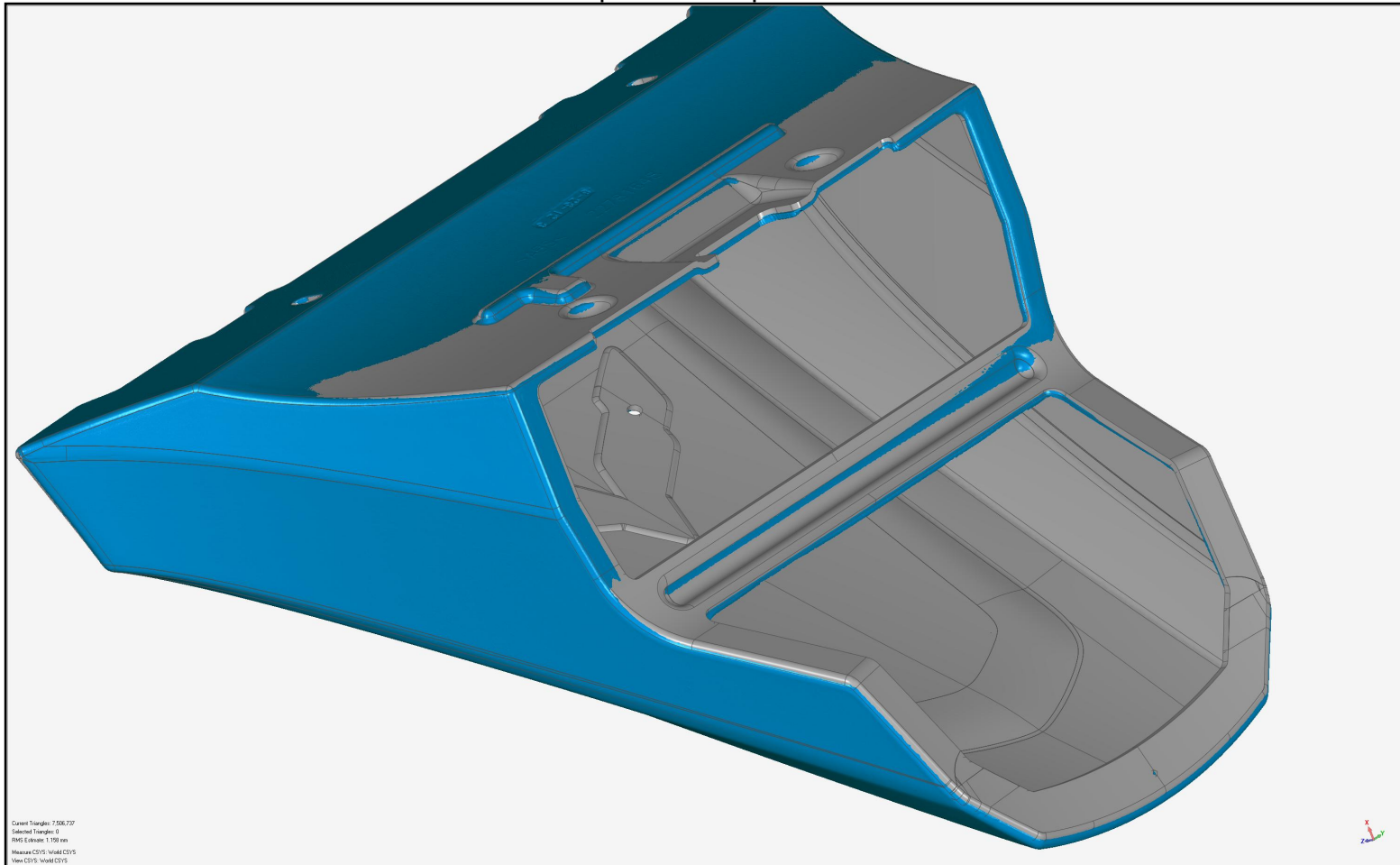
Snapshots: Snapshot 14



[GREY = CAD DATA] [BLUE = SCAN DATA]

INSPECTION REPORT

Snapshots: Snapshot 15

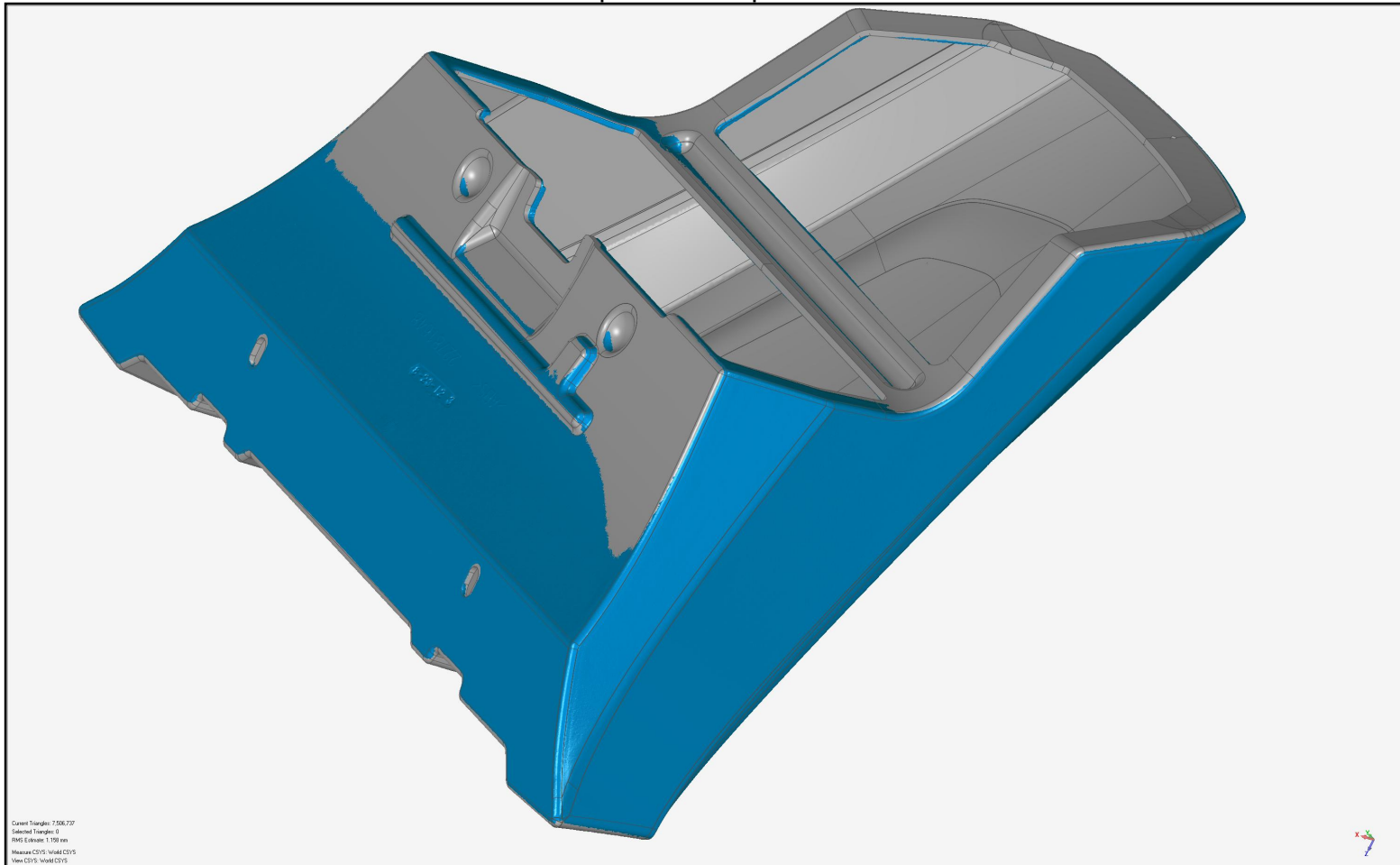


Current Triangles: 7,556,737
Selected Triangles: 0
RMG Layer(s): 1,150 mm
Resolution: 0.015 mm
Max CV's: 10000000
Max CV's: 10000000

[GREY = CAD DATA] [BLUE = SCAN DATA]

INSPECTION REPORT

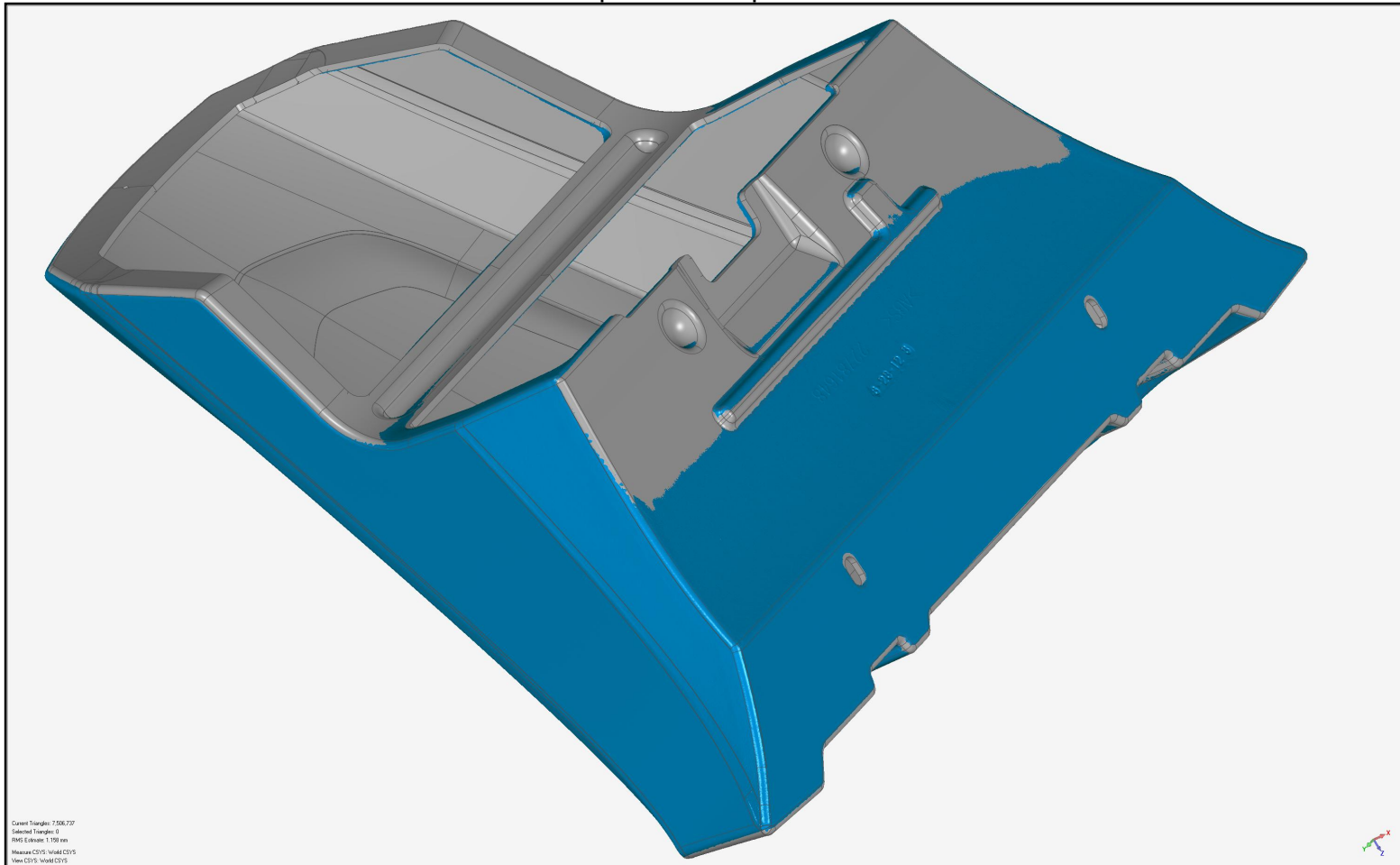
Snapshots: Snapshot 16



[GREY = CAD DATA] [BLUE = SCAN DATA]

INSPECTION REPORT

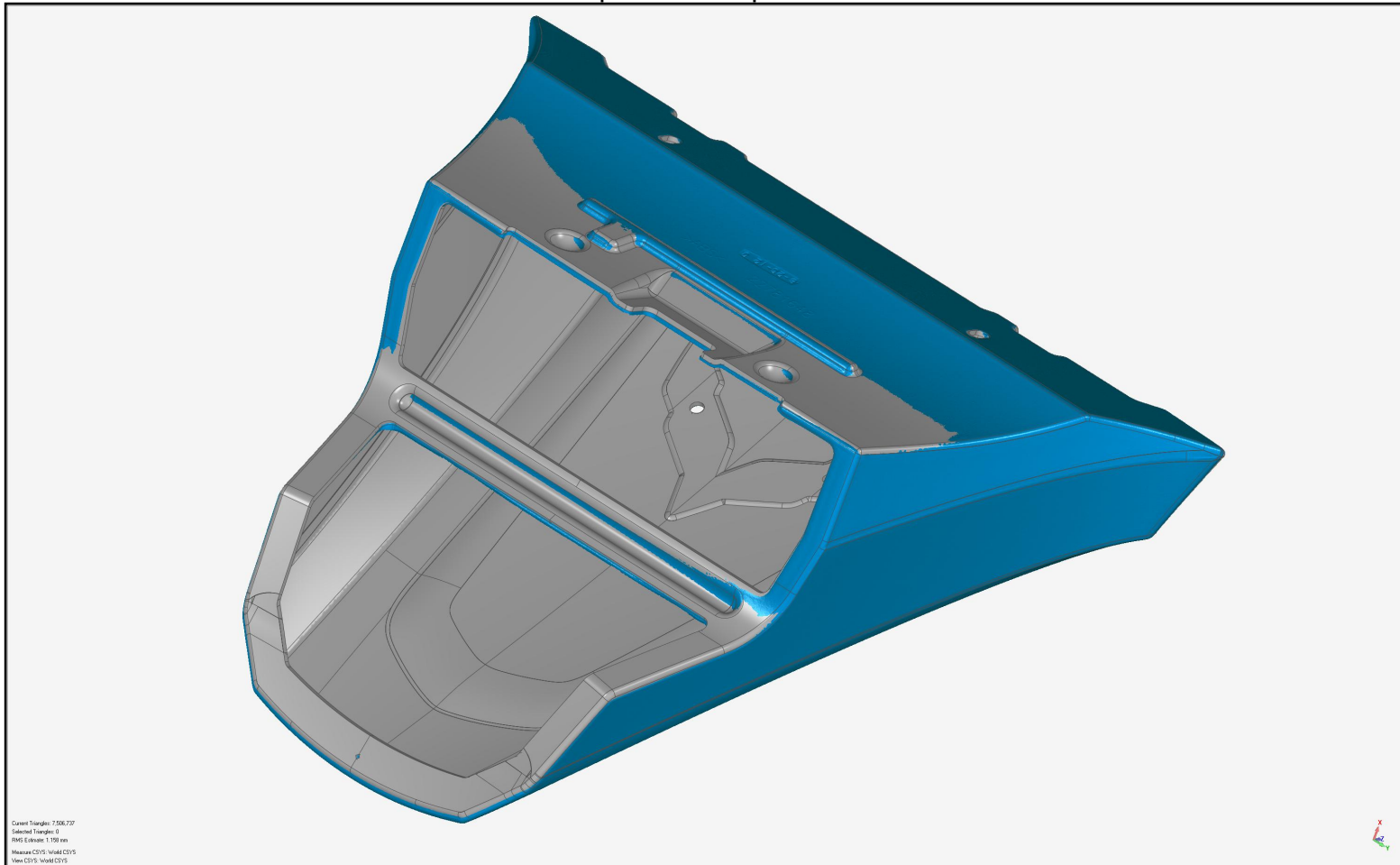
Snapshots: Snapshot 17



[GREY = CAD DATA] [BLUE = SCAN DATA]

INSPECTION REPORT

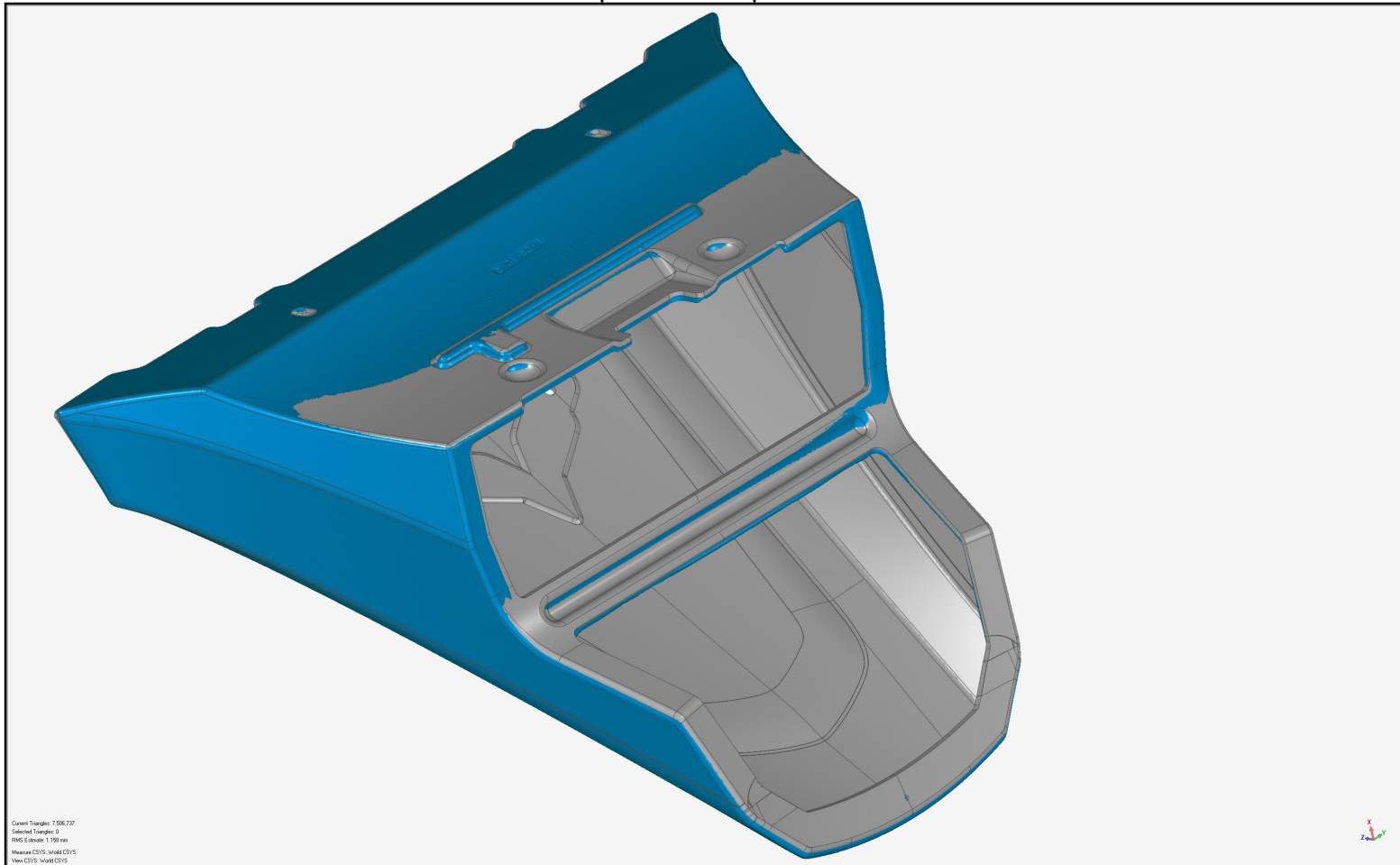
Snapshots: Snapshot 18



[GREY = CAD DATA] [BLUE = SCAN DATA]

INSPECTION REPORT

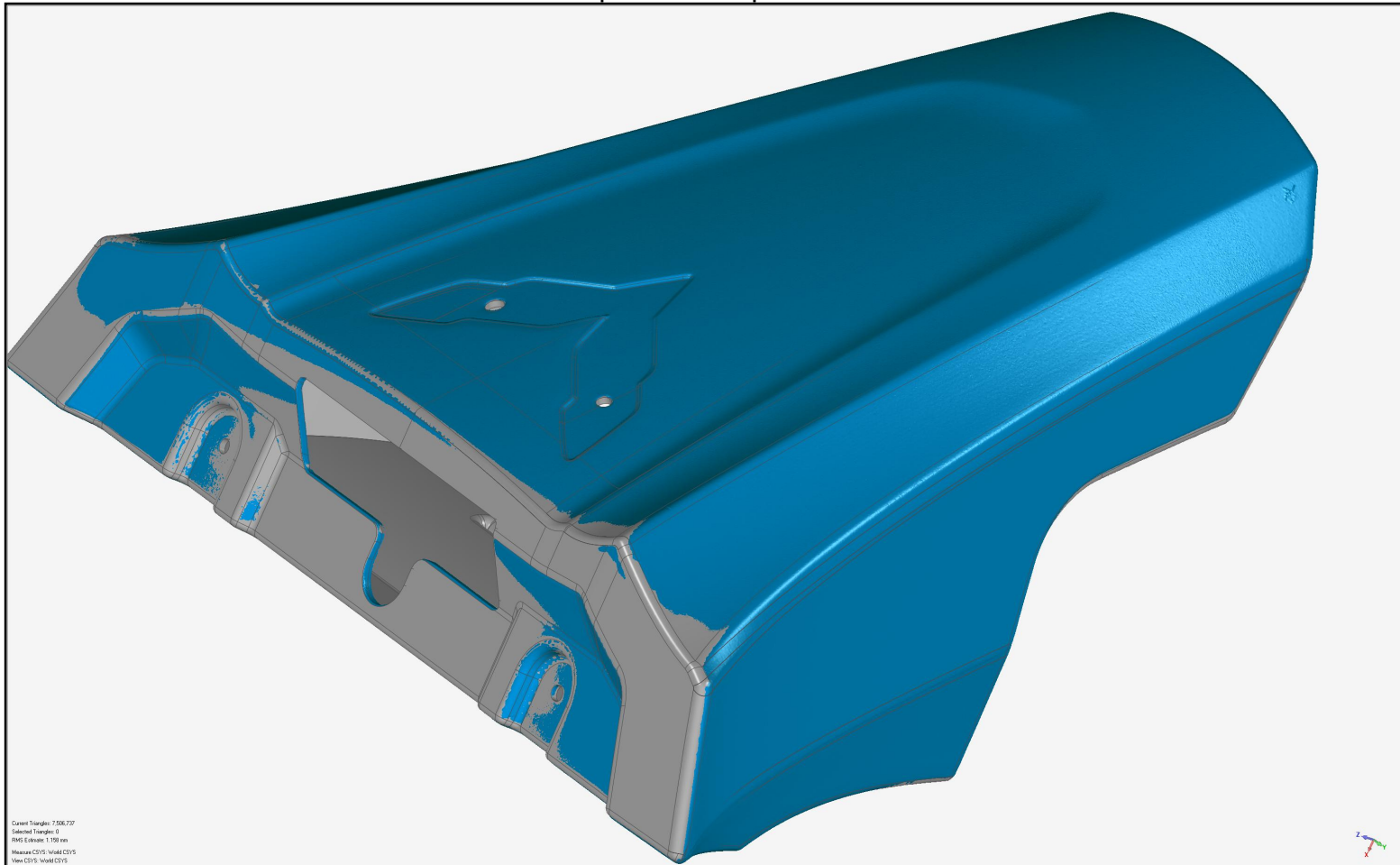
Snapshots: Snapshot 19



[GREY = CAD DATA] [BLUE = SCAN DATA]

INSPECTION REPORT

Snapshots: Snapshot 20

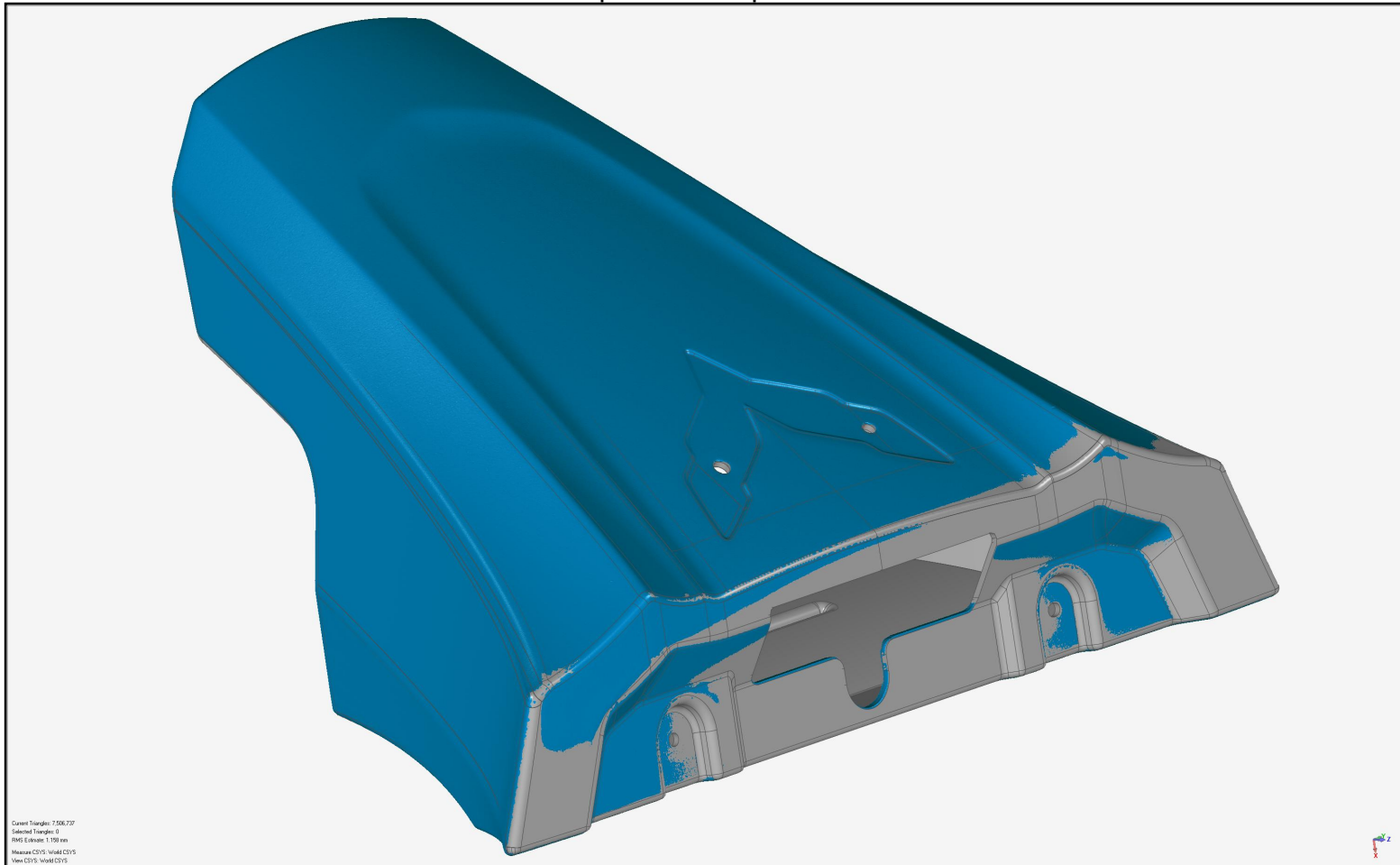


Current Triangle: 7,556,737
Selected Triangle: 0
RMG Layer: 1,150 mm
Resolution: 0.15 mm
Max CPU: 3,000,000,000
Max CPU: 3,000,000,000

[GREY = CAD DATA] [BLUE = SCAN DATA]

INSPECTION REPORT

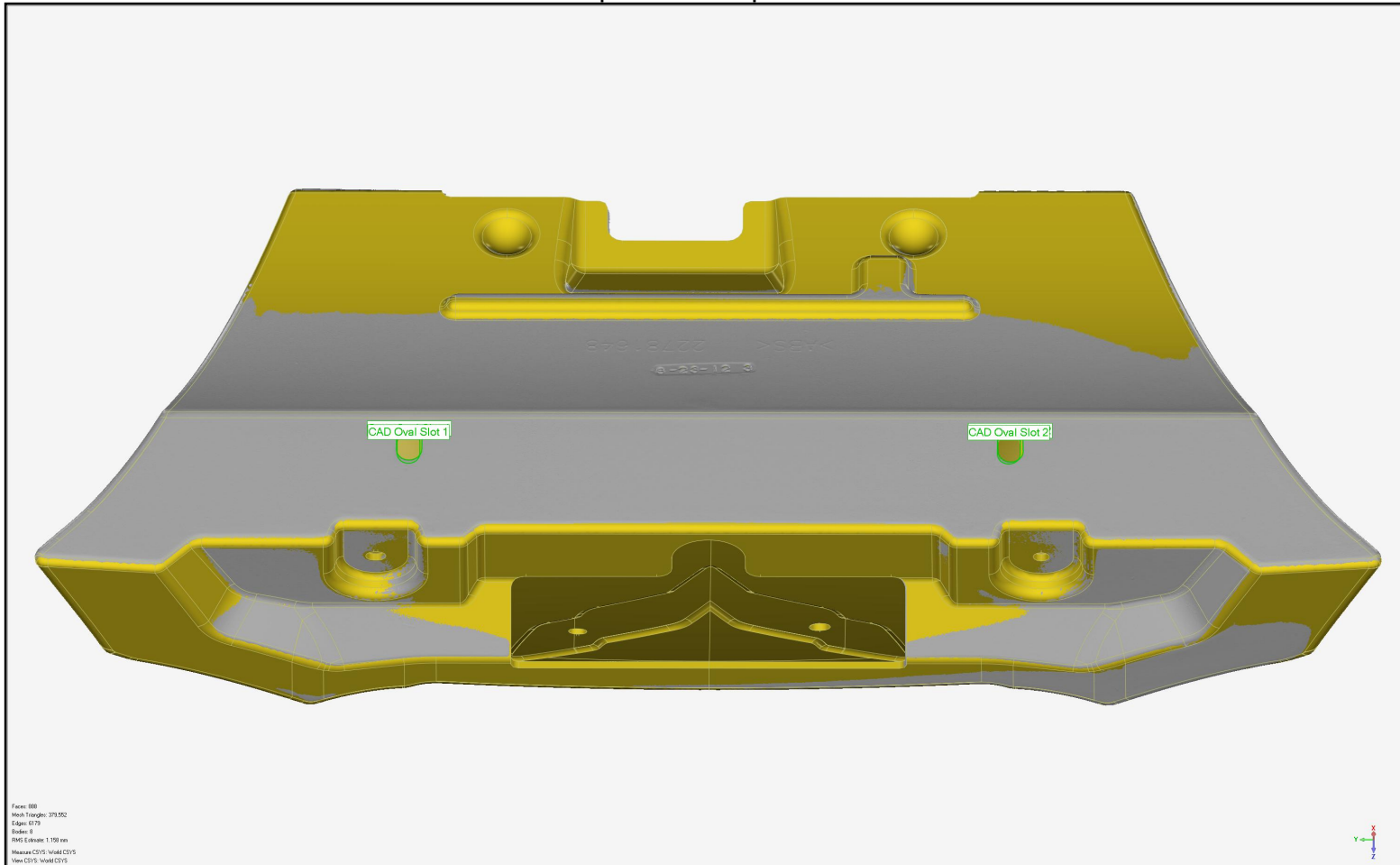
Snapshots: Snapshot 21



[GREY = CAD DATA] [BLUE = SCAN DATA]

INSPECTION REPORT

Snapshots: Snapshot 22



INSPECTION REPORT

Snapshots: Snapshot 23



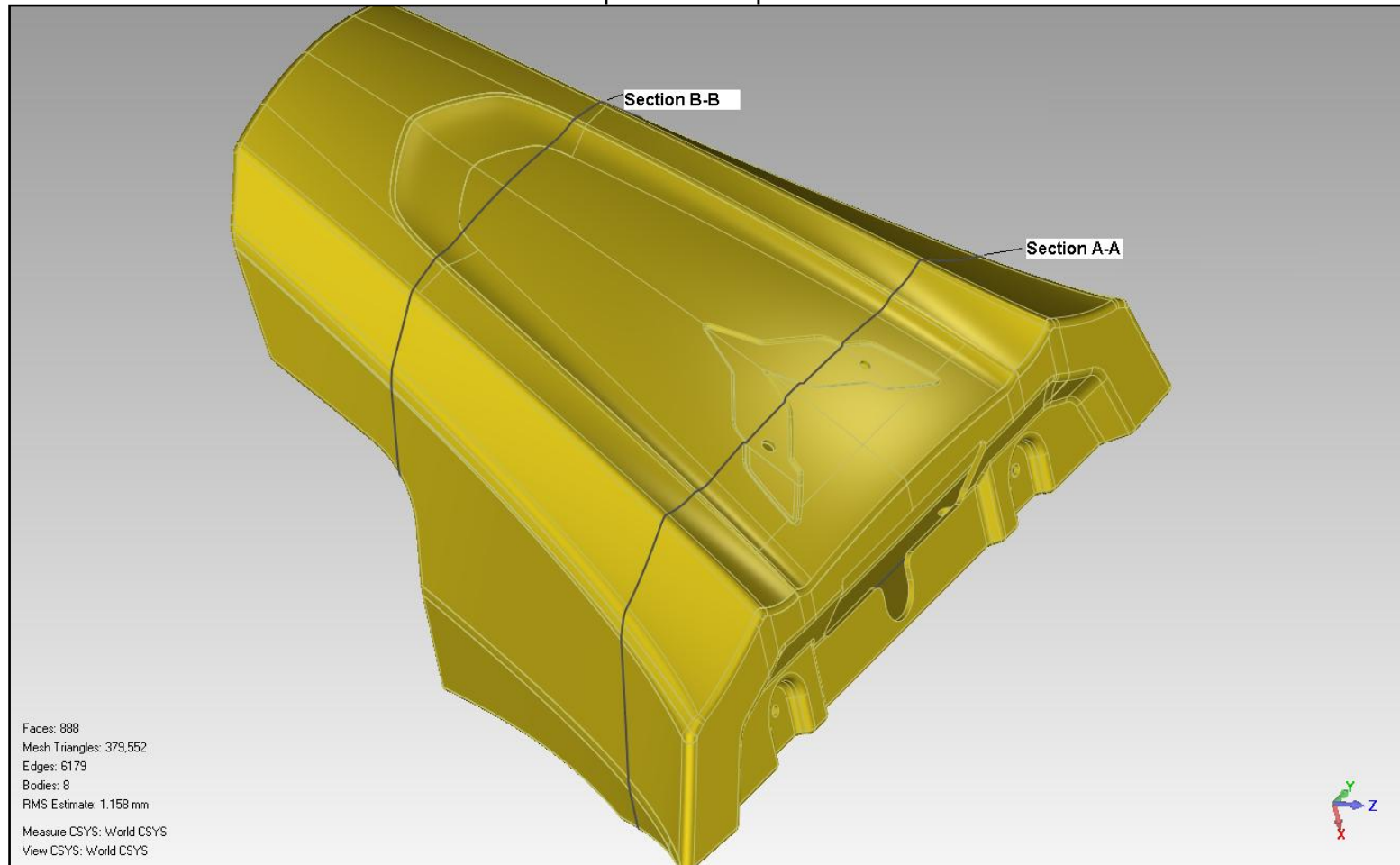
INSPECTION REPORT

Snapshots: Snapshot 24



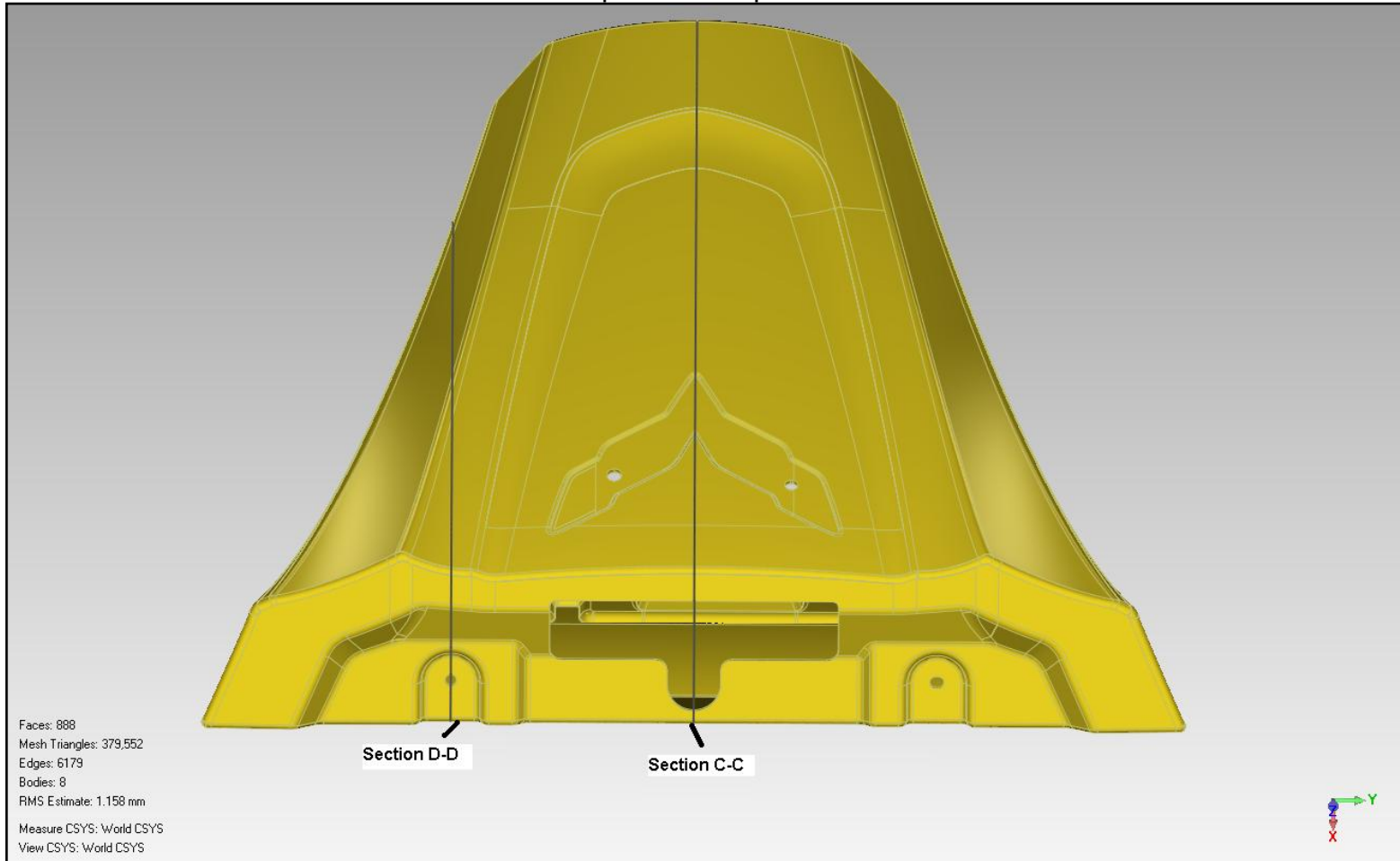
INSPECTION REPORT

Snapshots: Snapshot 25



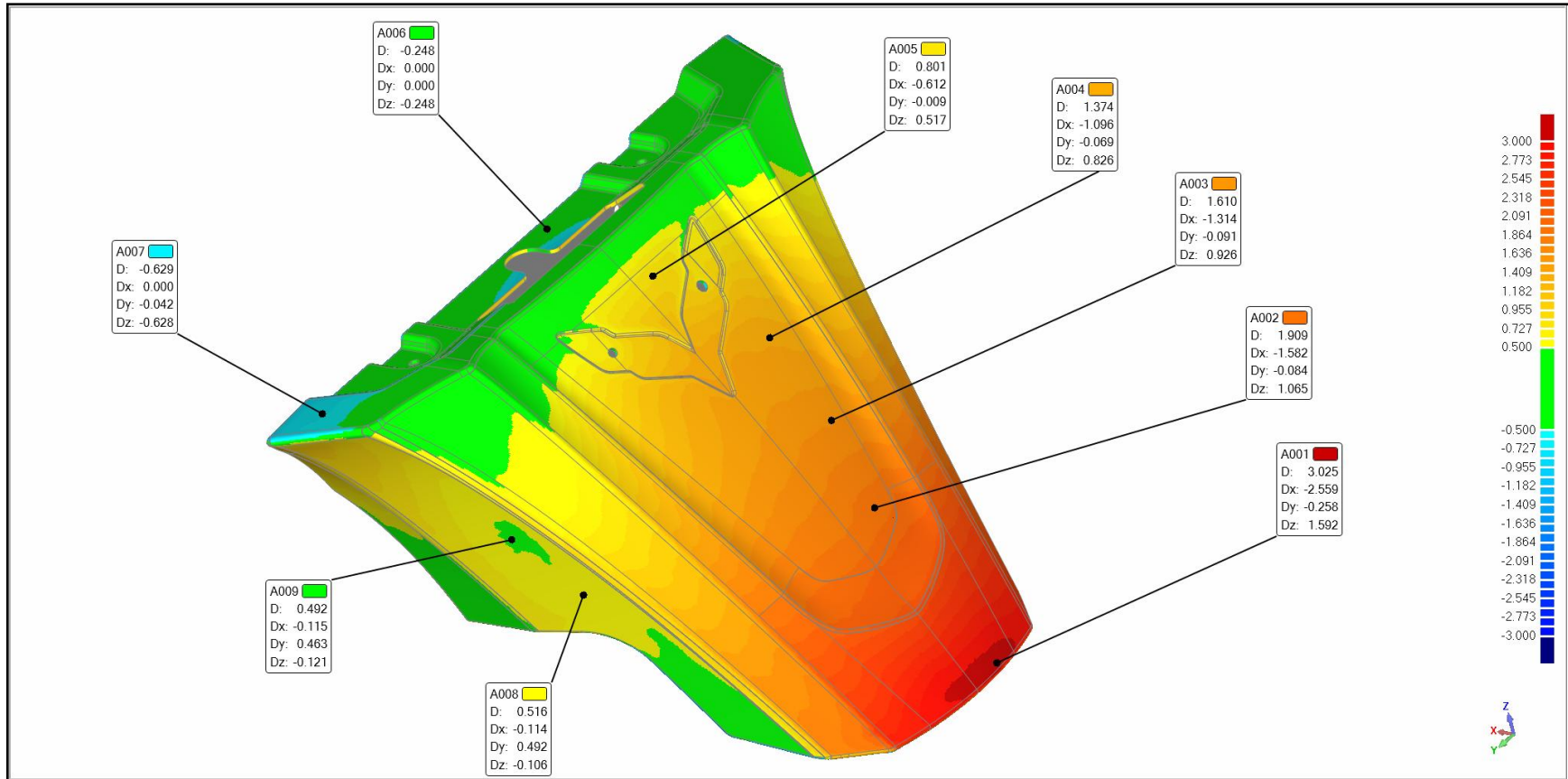
INSPECTION REPORT

Snapshots: Snapshot 26



INSPECTION REPORT

Annotated: Annotation View 1



Units: mm

CSYS: Annotation View 1

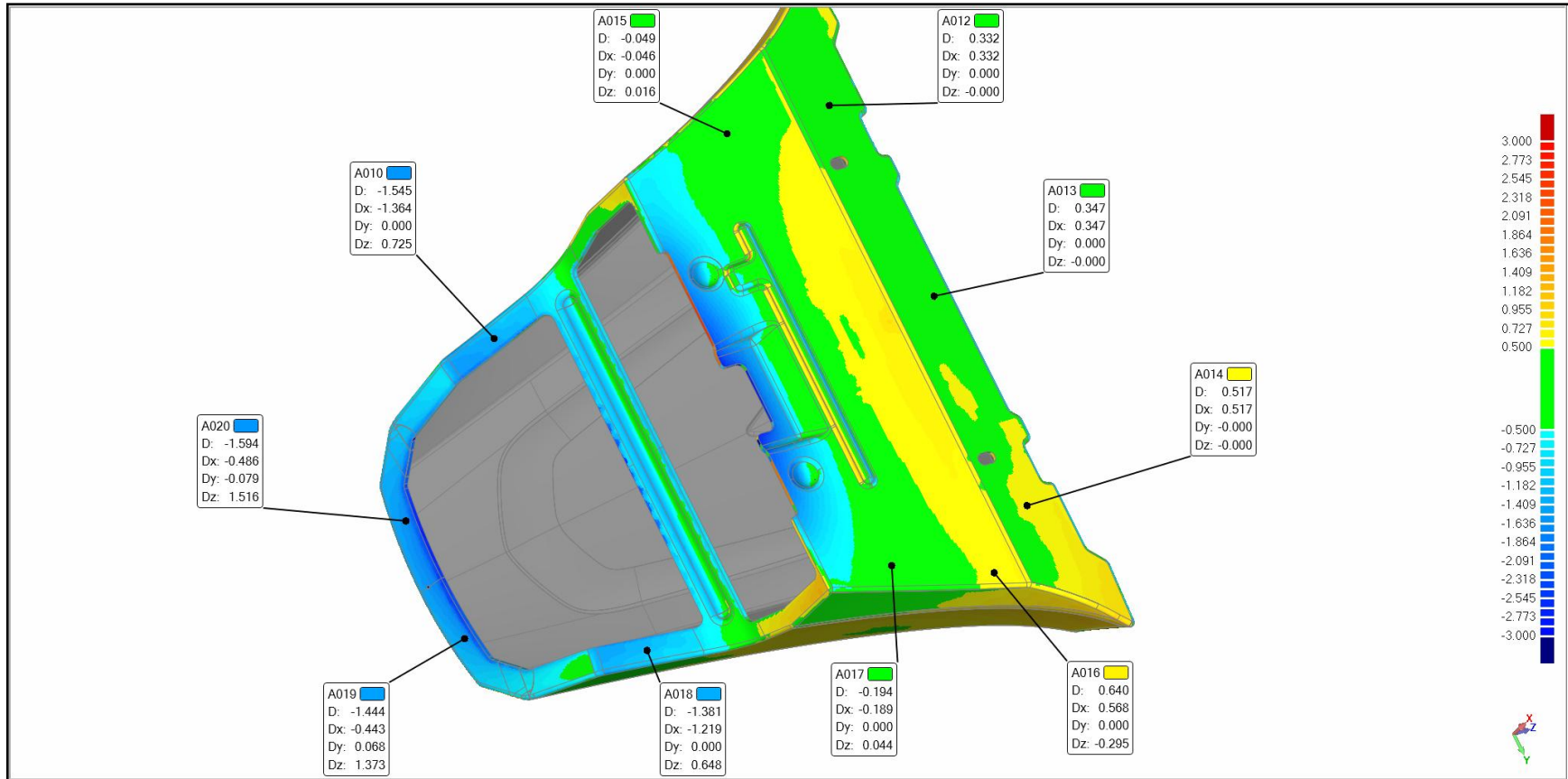
Name	Dev	Status	Upper Tol.	Lower Tol.	Ref X	Ref Y	Ref Z	Dev Radius	Dev X	Dev Y	Dev Z	Measured X	Measured Y	Measured Z	Normal X	Normal Y	Normal Z
A001	3.025	FAIL	0.100	-0.100	3430.657	-28.677	777.520	1.000	-2.559	-0.258	1.592	3428.098	-28.936	779.112	-0.846	-0.085	0.526
A002	1.909	FAIL	0.100	-0.100	3505.027	-31.563	885.675	1.000	-1.582	-0.084	1.065	3503.445	-31.648	886.740	-0.829	-0.044	0.558
A003	1.610	FAIL	0.100	-0.100	3541.329	-51.352	936.639	1.000	-1.314	-0.091	0.926	3540.016	-51.443	937.565	-0.816	-0.056	0.575
A004	1.374	FAIL	0.100	-0.100	3581.807	-57.016	991.792	1.000	-1.096	-0.069	0.826	3580.711	-57.084	992.618	-0.798	-0.050	0.601
A005	0.801	FAIL	0.100	-0.100	3631.970	-16.290	1056.724	1.000	-0.612	-0.009	0.517	3631.357	-16.299	1057.241	-0.764	-0.011	0.645
A006	-0.248	FAIL	0.100	-0.100	3734.785	-37.341	1065.489	1.000	0.000	0.000	-0.248	3734.785	-37.341	1065.241	0.000	0.000	1.000

INSPECTION REPORT

Name	Dev	Status	Upper Tol.	Lower Tol.	Ref X	Ref Y	Ref Z	Dev Radius	Dev X	Dev Y	Dev Z	Measured X	Measured Y	Measured Z	Normal X	Normal Y	Normal Z
A007	-0.629	FAIL	0.100	-0.100	3723.341	229.872	1082.831	1.000	0.000	-0.042	-0.628	3723.341	229.830	1082.203	-0.000	0.066	0.998
A008	0.516	FAIL	0.100	-0.100	3599.242	162.248	919.408	1.000	-0.114	0.492	-0.106	3599.128	162.740	919.303	-0.221	0.953	-0.205
A009	0.492	FAIL	0.100	-0.100	3631.200	181.698	969.459	1.000	-0.115	0.463	-0.121	3631.085	182.161	969.338	-0.234	0.941	-0.246

INSPECTION REPORT

Annotated: Annotation View 2



Units: mm

CSYS: Annotation View 2

Name	Dev	Status	Upper Tol.	Lower Tol.	Ref X	Ref Y	Ref Z	Dev Radius	Dev X	Dev Y	Dev Z	Measured X	Measured Y	Measured Z	Normal X	Normal Y	Normal Z
A010	-1.545	FAIL	0.100	-0.100	3558.249	-124.282	830.726	1.000	-1.364	0.000	0.725	3556.886	-124.282	831.451	0.883	0.000	-0.469
A012	0.332	FAIL	0.100	-0.100	3747.338	-160.336	1042.057	1.000	0.332	0.000	0.000	3747.670	-160.336	1042.057	1.000	0.000	0.000
A013	0.347	FAIL	0.100	-0.100	3747.338	-5.515	1049.419	1.000	0.347	0.000	0.000	3747.685	-5.515	1049.419	1.000	0.000	0.000
A014	0.517	FAIL	0.100	-0.100	3747.338	159.869	1040.282	1.000	0.517	0.000	0.000	3747.854	159.869	1040.282	1.000	0.000	0.000
A015	-0.049	PASS	0.100	-0.100	3725.588	-168.826	967.482	1.000	-0.046	0.000	0.016	3725.542	-168.826	967.499	0.943	0.000	-0.334
A016	0.640	FAIL	0.100	-0.100	3737.639	196.647	995.710	1.000	0.568	0.000	-0.295	3738.207	196.647	995.415	0.887	0.000	-0.461

INSPECTION REPORT

Name	Dev	Status	Upper Tol.	Lower Tol.	Ref X	Ref Y	Ref Z	Dev Radius	Dev X	Dev Y	Dev Z	Measured X	Measured Y	Measured Z	Normal X	Normal Y	Normal Z
A017	-0.194	FAIL	0.100	-0.100	3716.167	163.712	934.675	1.000	-0.189	0.000	0.044	3715.978	163.712	934.720	0.974	0.000	-0.228
A018	-1.381	FAIL	0.100	-0.100	3557.394	124.808	829.116	1.000	-1.219	0.000	0.648	3556.175	124.808	829.765	0.883	0.000	-0.469
A019	-1.444	FAIL	0.100	-0.100	3446.478	45.898	774.116	1.000	-0.443	0.068	1.373	3446.036	45.966	775.488	0.307	-0.047	-0.951
A020	-1.594	FAIL	0.100	-0.100	3446.581	-48.398	774.023	1.000	-0.486	-0.079	1.516	3446.095	-48.477	775.539	0.305	0.049	-0.951

INSPECTION REPORT

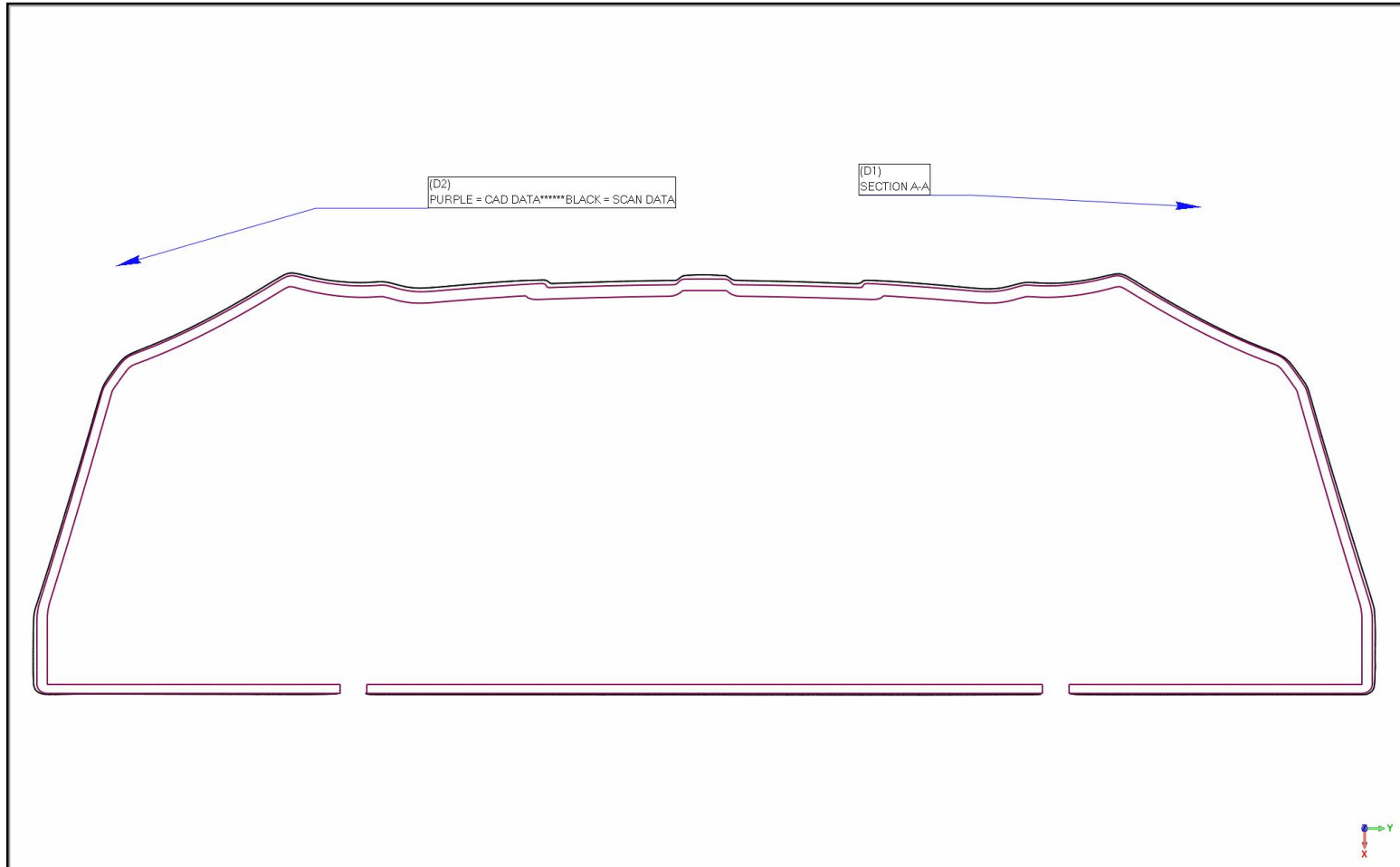
Annotated: All

Units: mm

Name	Dev	Status	Upper Tol.	Lower Tol.	Ref X	Ref Y	Ref Z	Dev Radius	Dev X	Dev Y	Dev Z	Measured X	Measured Y	Measured Z	Normal X	Normal Y	Normal Z
A001	3.025	FAIL	0.100	-0.100	3430.657	-28.677	777.520	1.000	-2.559	-0.258	1.592	3428.098	-28.936	779.112	-0.846	-0.085	0.526
A002	1.909	FAIL	0.100	-0.100	3505.027	-31.563	885.675	1.000	-1.582	-0.084	1.065	3503.445	-31.648	886.740	-0.829	-0.044	0.558
A003	1.610	FAIL	0.100	-0.100	3541.329	-51.352	936.639	1.000	-1.314	-0.091	0.926	3540.016	-51.443	937.565	-0.816	-0.056	0.575
A004	1.374	FAIL	0.100	-0.100	3581.807	-57.016	991.792	1.000	-1.096	-0.069	0.826	3580.711	-57.084	992.618	-0.798	-0.050	0.601
A005	0.801	FAIL	0.100	-0.100	3631.970	-16.290	1056.724	1.000	-0.612	-0.009	0.517	3631.357	-16.299	1057.241	-0.764	-0.011	0.645
A006	-0.248	FAIL	0.100	-0.100	3734.785	-37.341	1065.489	1.000	0.000	0.000	-0.248	3734.785	-37.341	1065.241	0.000	0.000	1.000
A007	-0.629	FAIL	0.100	-0.100	3723.341	229.872	1082.831	1.000	0.000	-0.042	-0.628	3723.341	229.830	1082.203	-0.000	0.066	0.998
A008	0.516	FAIL	0.100	-0.100	3599.242	162.248	919.408	1.000	-0.114	0.492	-0.106	3599.128	162.740	919.303	-0.221	0.953	-0.205
A009	0.492	FAIL	0.100	-0.100	3631.200	181.698	969.459	1.000	-0.115	0.463	-0.121	3631.085	182.161	969.338	-0.234	0.941	-0.246
A010	-1.545	FAIL	0.100	-0.100	3558.249	-124.282	830.726	1.000	-1.364	0.000	0.725	3556.886	-124.282	831.451	0.883	0.000	-0.469
A012	0.332	FAIL	0.100	-0.100	3747.338	-160.336	1042.057	1.000	0.332	0.000	0.000	3747.670	-160.336	1042.057	1.000	0.000	0.000
A013	0.347	FAIL	0.100	-0.100	3747.338	-5.515	1049.419	1.000	0.347	0.000	0.000	3747.685	-5.515	1049.419	1.000	0.000	0.000
A014	0.517	FAIL	0.100	-0.100	3747.338	159.869	1040.282	1.000	0.517	0.000	0.000	3747.854	159.869	1040.282	1.000	0.000	0.000
A015	-0.049	PASS	0.100	-0.100	3725.588	-168.826	967.482	1.000	-0.046	0.000	0.016	3725.542	-168.826	967.499	0.943	0.000	-0.334
A016	0.640	FAIL	0.100	-0.100	3737.639	196.647	995.710	1.000	0.568	0.000	-0.295	3738.207	196.647	995.415	0.887	0.000	-0.461
A017	-0.194	FAIL	0.100	-0.100	3716.167	163.712	934.675	1.000	-0.189	0.000	0.044	3715.978	163.712	934.720	0.974	0.000	-0.228
A018	-1.381	FAIL	0.100	-0.100	3557.394	124.808	829.116	1.000	-1.219	0.000	0.648	3556.175	124.808	829.765	0.883	0.000	-0.469
A019	-1.444	FAIL	0.100	-0.100	3446.478	45.898	774.116	1.000	-0.443	0.068	1.373	3446.036	45.966	775.488	0.307	-0.047	-0.951
A020	-1.594	FAIL	0.100	-0.100	3446.581	-48.398	774.023	1.000	-0.486	-0.079	1.516	3446.095	-48.477	775.539	0.305	0.049	-0.951

INSPECTION REPORT

Dimension 2D: Section A-A



Units: mm

CSYS: World CSYS

INSPECTION REPORT

Dimension 2D: Section A-A1



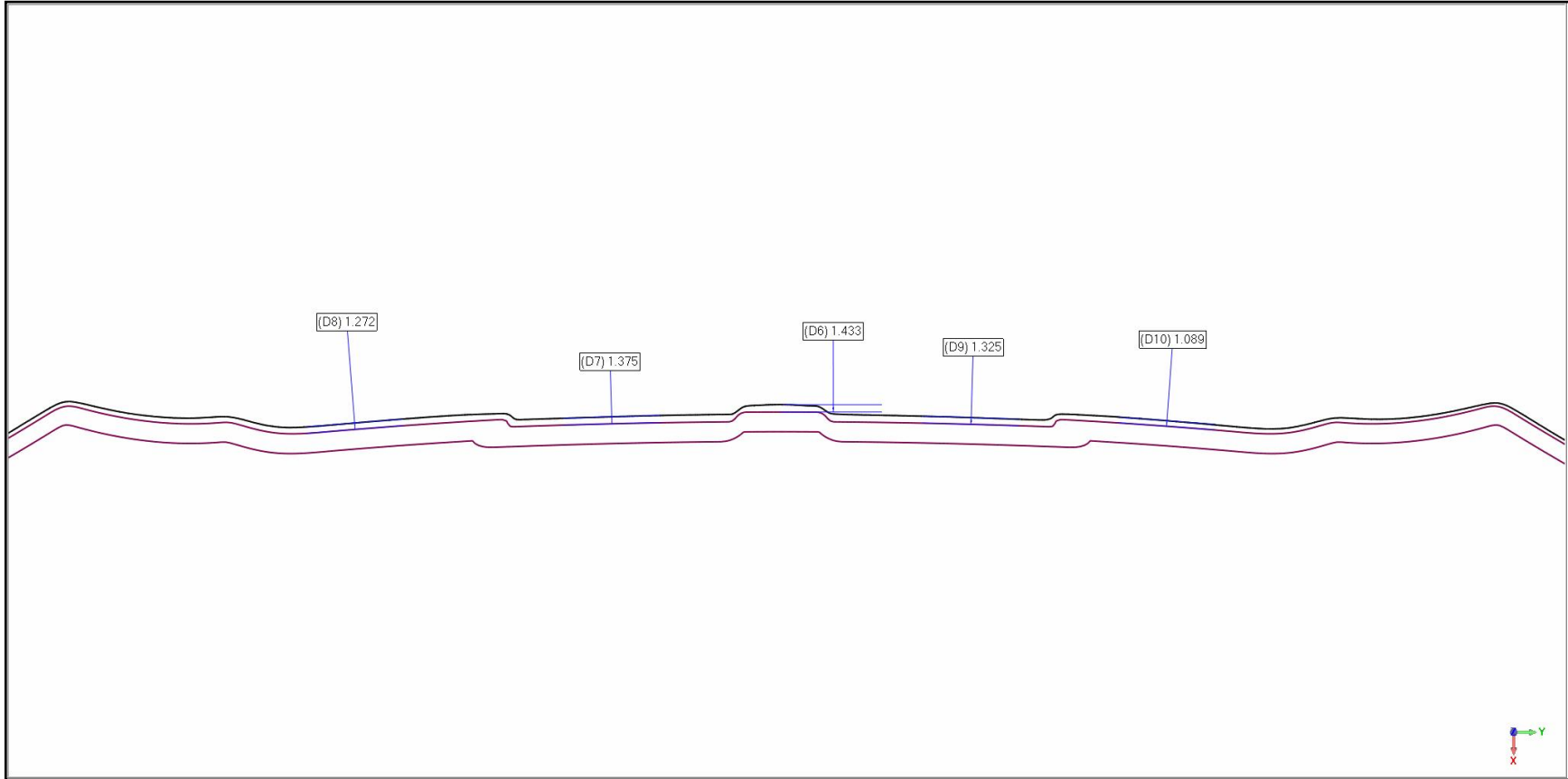
Units: mm

CSYS: World CSYS

Name	Measured	Nominal	Dev	Status	Upper Tol.	Lower Tol.
D3	1.233	0.000	1.233	FAIL	0.500	-0.500
D4	0.266	0.000	0.266	PASS	0.500	-0.500
D5	0.618	0.004	0.614	FAIL	0.500	-0.500

INSPECTION REPORT

Dimension 2D: Section A-A2



Units: mm

CSYS: World CSYS

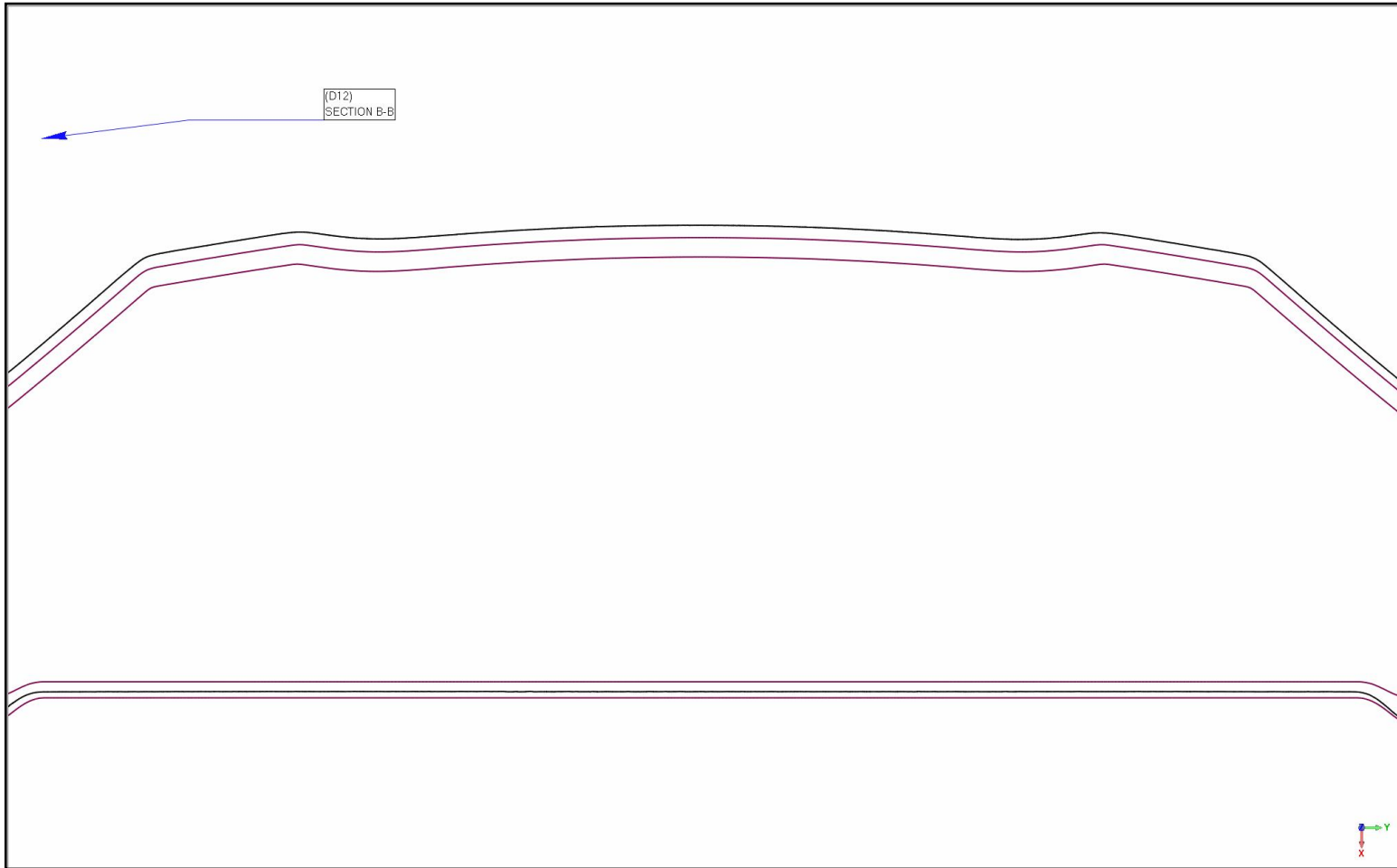
Name	Measured	Nominal	Dev	Status	Upper Tol.	Lower Tol.
D6	1.433	0.000	1.433	FAIL	0.500	-0.500
D7	1.375	0.000	1.375	FAIL	0.500	-0.500
D8	1.272	0.000	1.272	FAIL	0.500	-0.500

INSPECTION REPORT

Name	Measured	Nominal	Dev	Status	Upper Tol.	Lower Tol.
D9	1.325	0.000	1.324	FAIL	0.500	-0.500
D10	1.089	0.000	1.089	FAIL	0.500	-0.500

INSPECTION REPORT

Dimension 2D: Section B-B

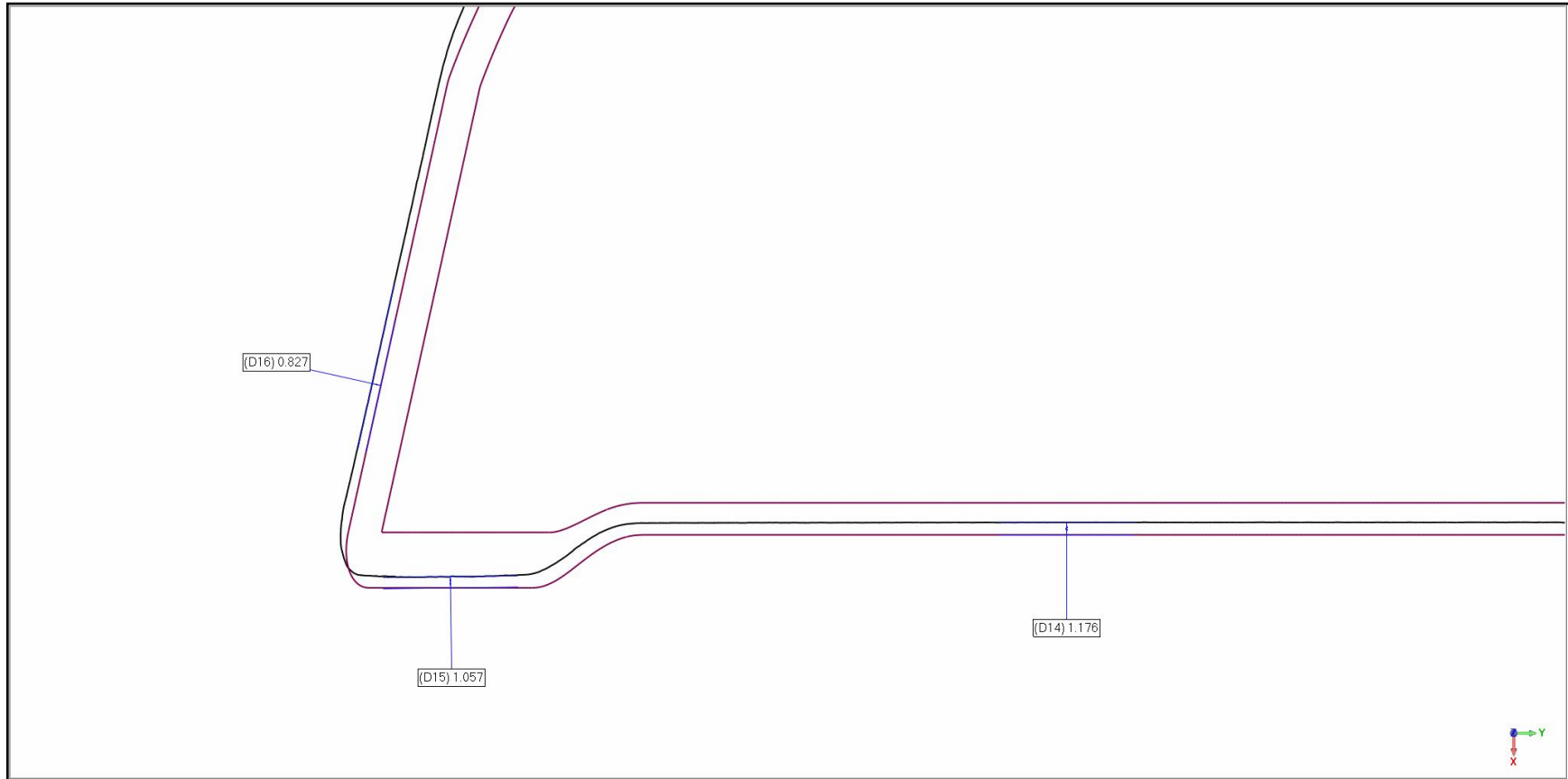


Units: mm

CSYS: World CSYS

INSPECTION REPORT

Dimension 2D: Section B-B1



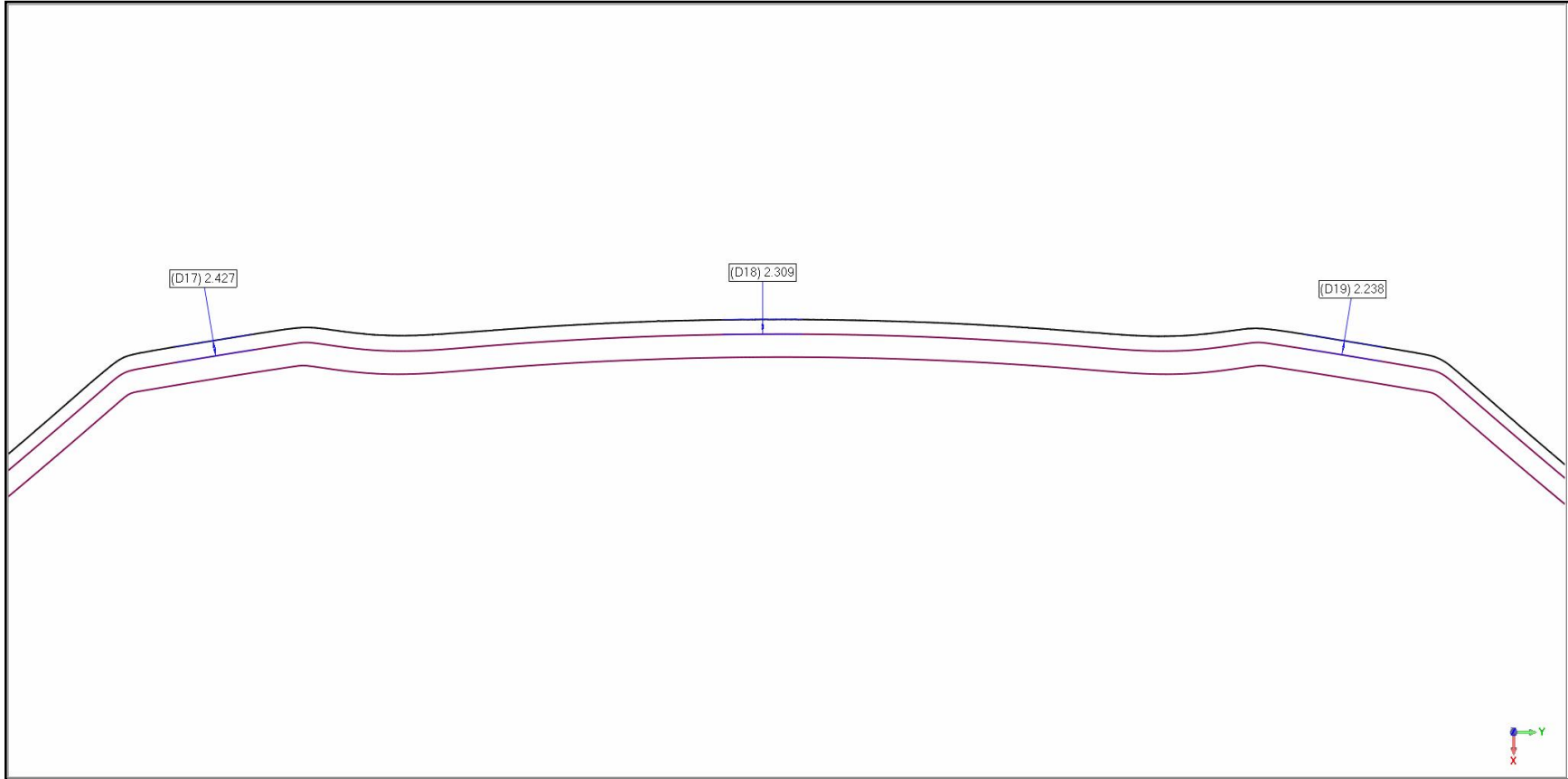
Units: mm

CSYS: World CSYS

Name	Measured	Nominal	Dev	Status	Upper Tol.	Lower Tol.
D14	1.176	2.016	-0.841	FAIL	0.500	-0.500
D15	1.057	0.000	1.057	FAIL	0.500	-0.500
D16	0.827	0.001	0.827	FAIL	0.500	-0.500

INSPECTION REPORT

Dimension 2D: Section B-B2



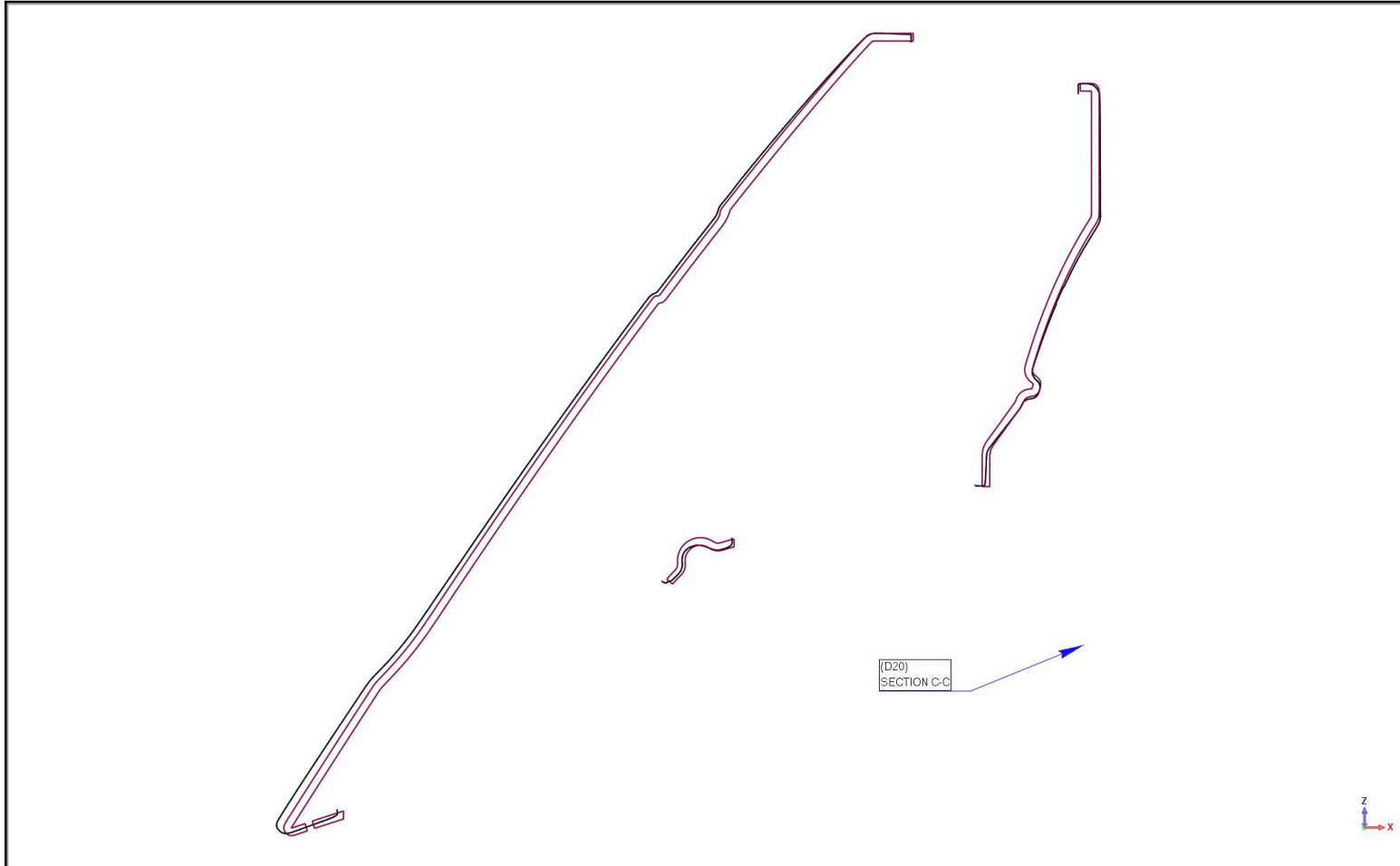
Units: mm

CSYS: World CSYS

Name	Measured	Nominal	Dev	Status	Upper Tol.	Lower Tol.
D17	2.427	0.000	2.426	FAIL	0.500	-0.500
D18	2.309	0.000	2.309	FAIL	0.500	-0.500
D19	2.238	0.000	2.238	FAIL	0.500	-0.500

INSPECTION REPORT

Dimension 2D: Section C-C

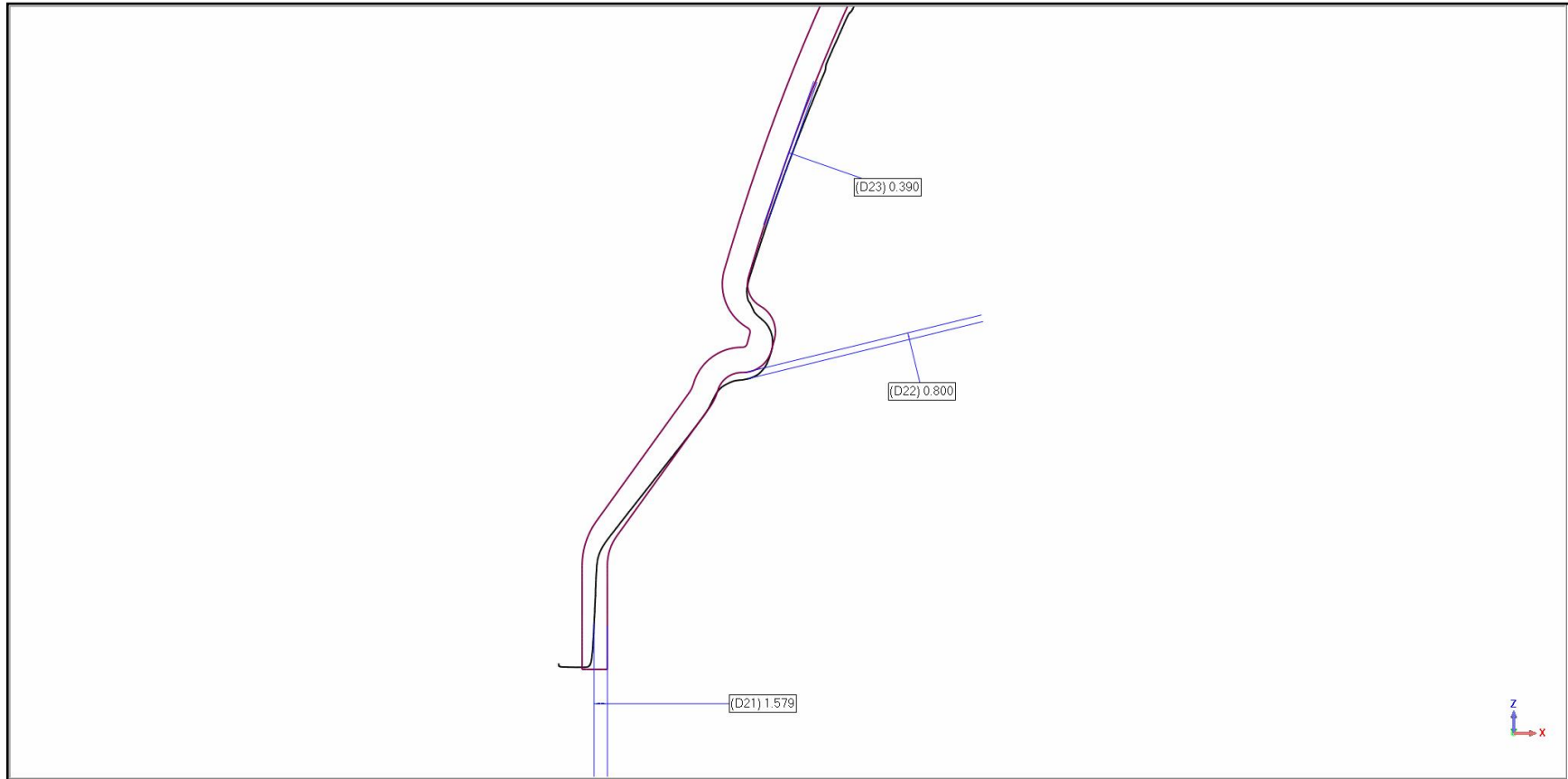


Units: mm

CSYS: World CSYS

INSPECTION REPORT

Dimension 2D: Section C-C1



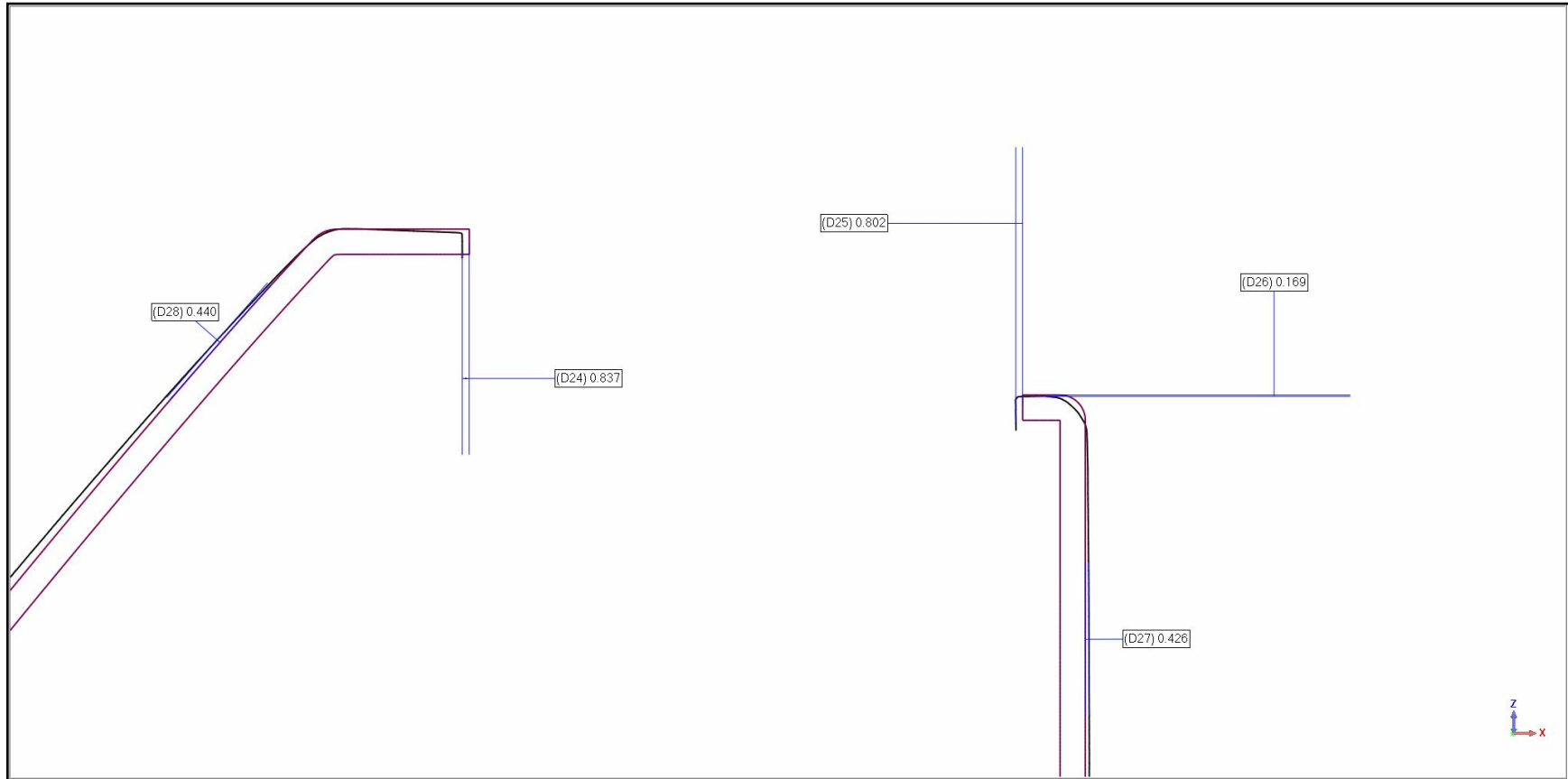
Units: mm

CSYS: World CSYS

Name	Measured	Nominal	Dev	Status	Upper Tol.	Lower Tol.
D21	1.579	0.000	1.579	FAIL	0.500	-0.500
D22	0.800	0.002	0.799	FAIL	0.500	-0.500
D23	0.390	0.001	0.389	PASS	0.500	-0.500

INSPECTION REPORT

Dimension 2D: Section C-C2



Units: mm

CSYS: World CSYS

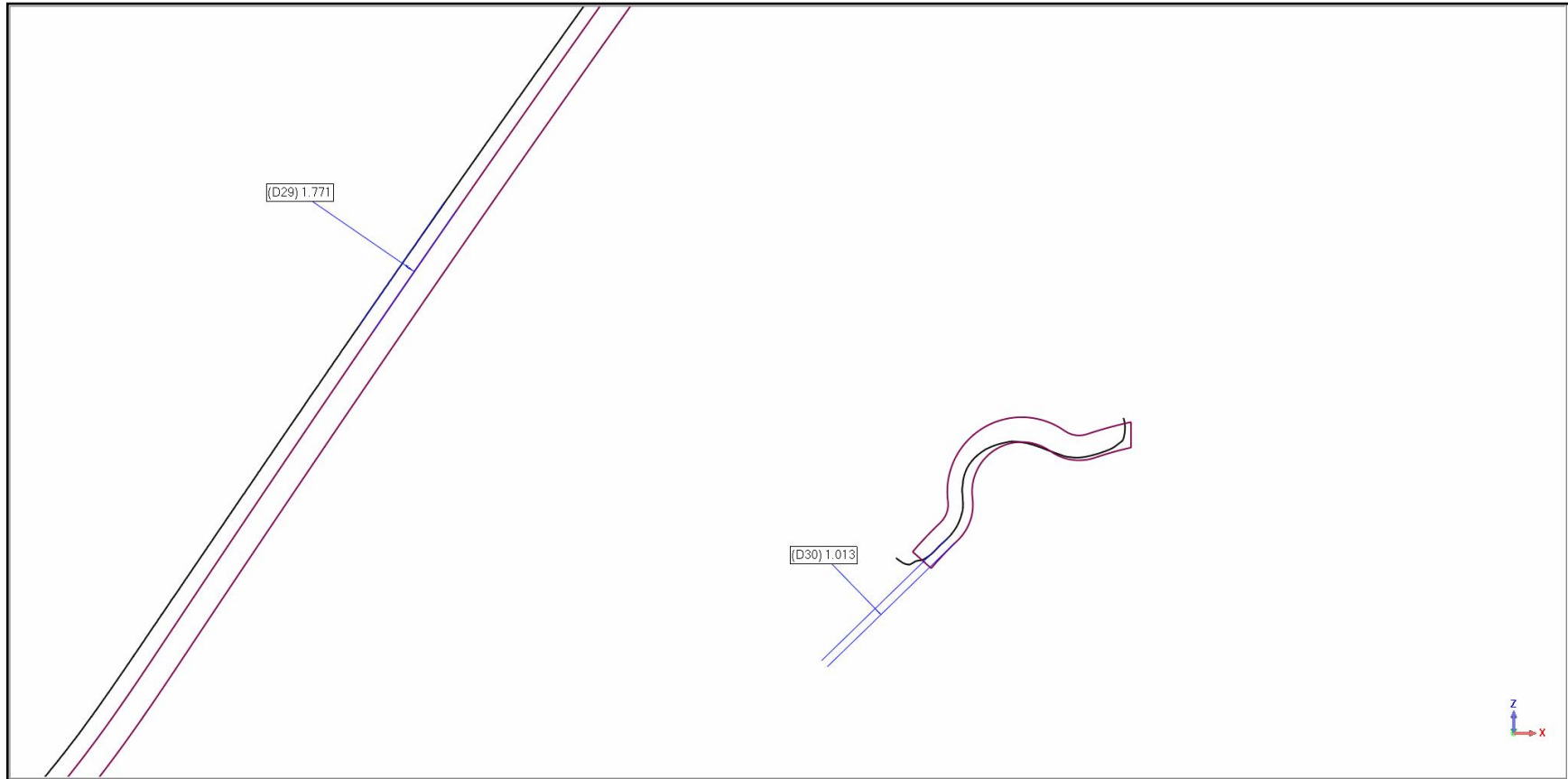
Name	Measured	Nominal	Dev	Status	Upper Tol.	Lower Tol.
D24	0.837	0.027	0.810	FAIL	0.500	-0.500
D25	0.802	0.081	0.720	FAIL	0.500	-0.500
D26	0.169	0.000	0.169	PASS	0.500	-0.500

INSPECTION REPORT

Name	Measured	Nominal	Dev	Status	Upper Tol.	Lower Tol.
D27	0.426	0.000	0.426	PASS	0.500	-0.500
D28	0.440	0.000	0.440	PASS	0.500	-0.500

INSPECTION REPORT

Dimension 2D: Section C-C3



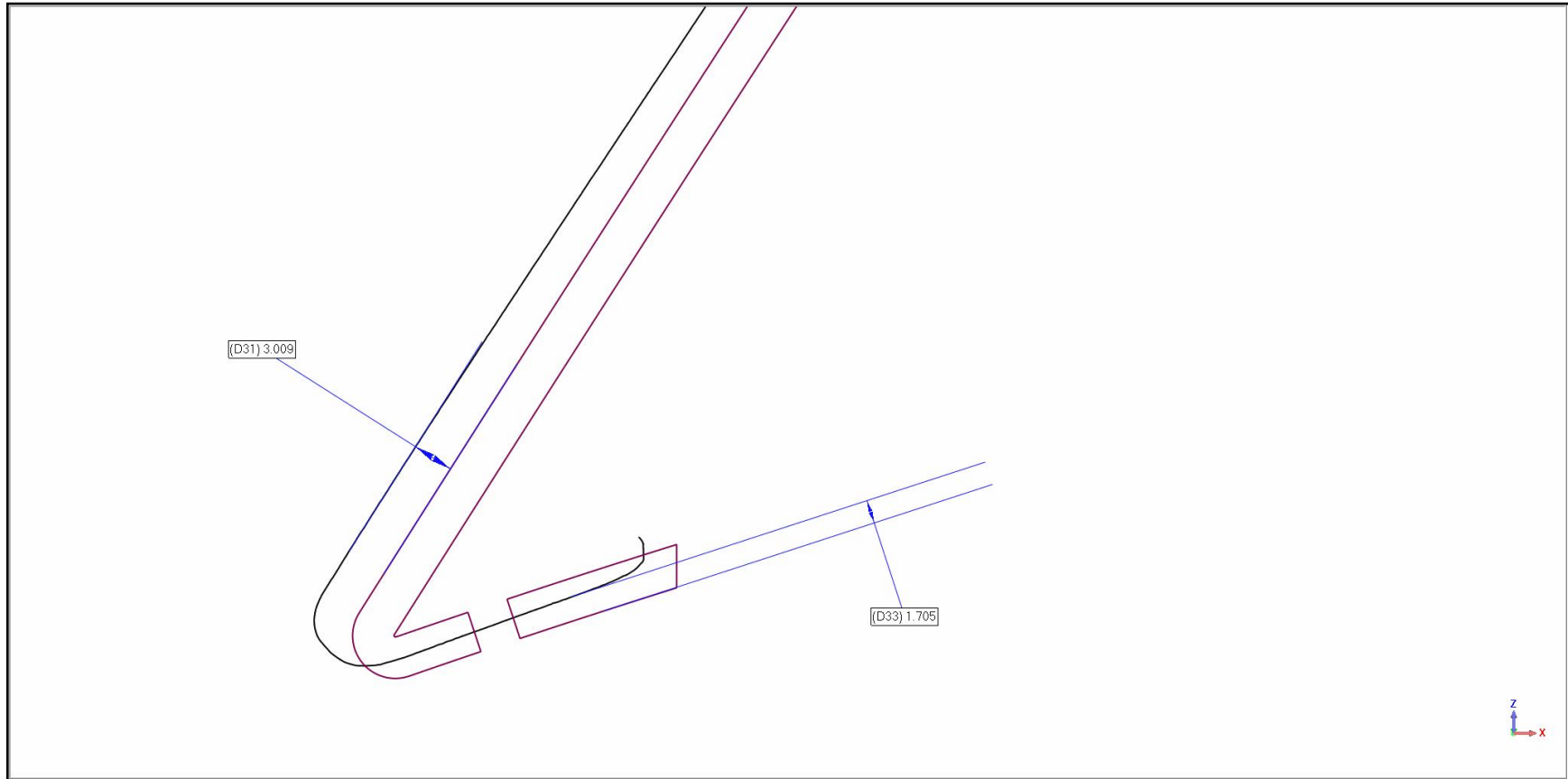
Units: mm

CSYS: World CSYS

Name	Measured	Nominal	Dev	Status	Upper Tol.	Lower Tol.
D29	1.771	0.000	1.771	FAIL	0.500	-0.500
D30	1.013	0.017	0.997	FAIL	0.500	-0.500

INSPECTION REPORT

Dimension 2D: Section C-C4



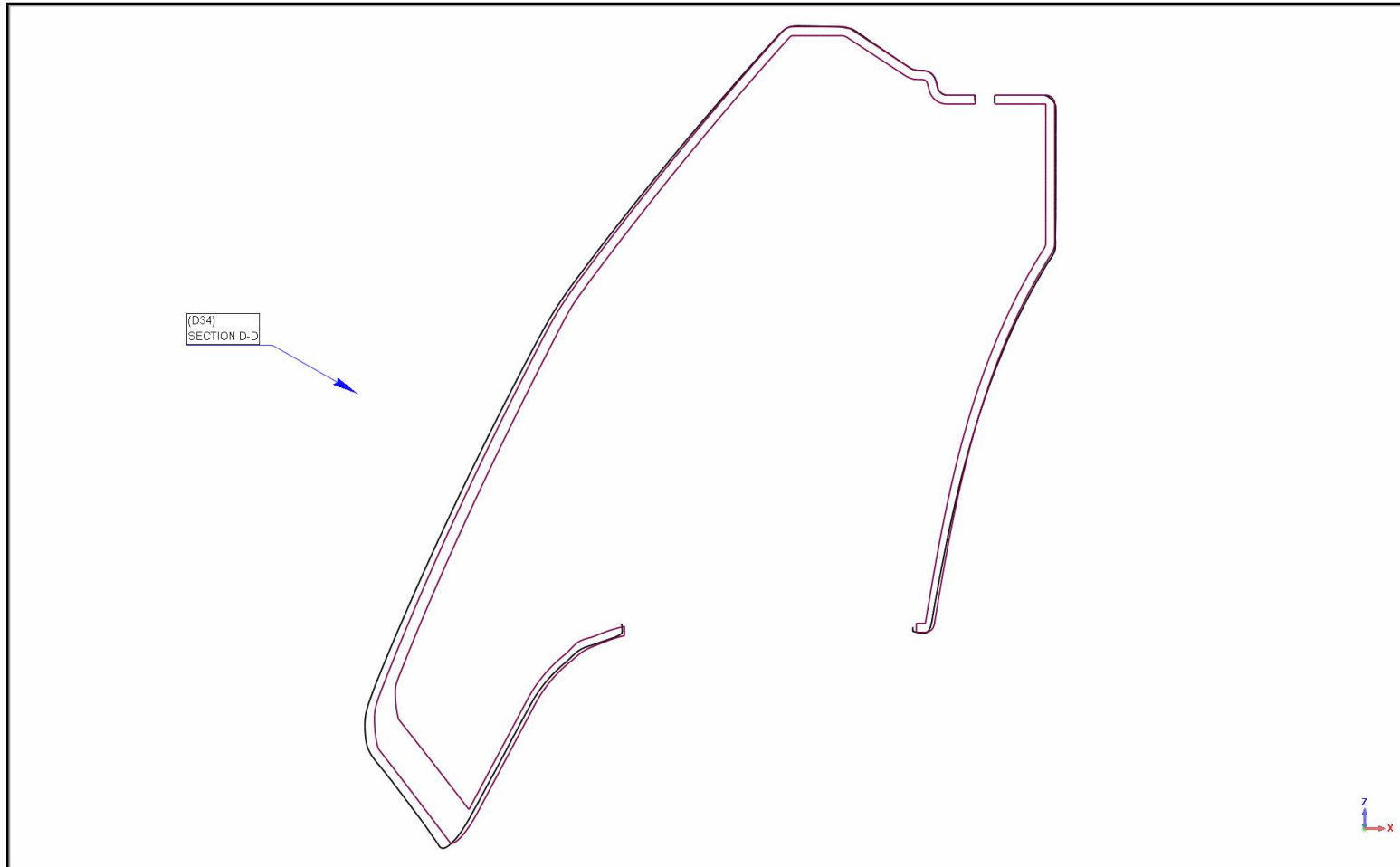
Units: mm

CSYS: World CSYS

Name	Measured	Nominal	Dev	Status	Upper Tol.	Lower Tol.
D31	3.009	0.000	3.009	FAIL	0.500	-0.500
D33	1.705	0.245	1.460	FAIL	0.500	-0.500

INSPECTION REPORT

Dimension 2D: Section D-D

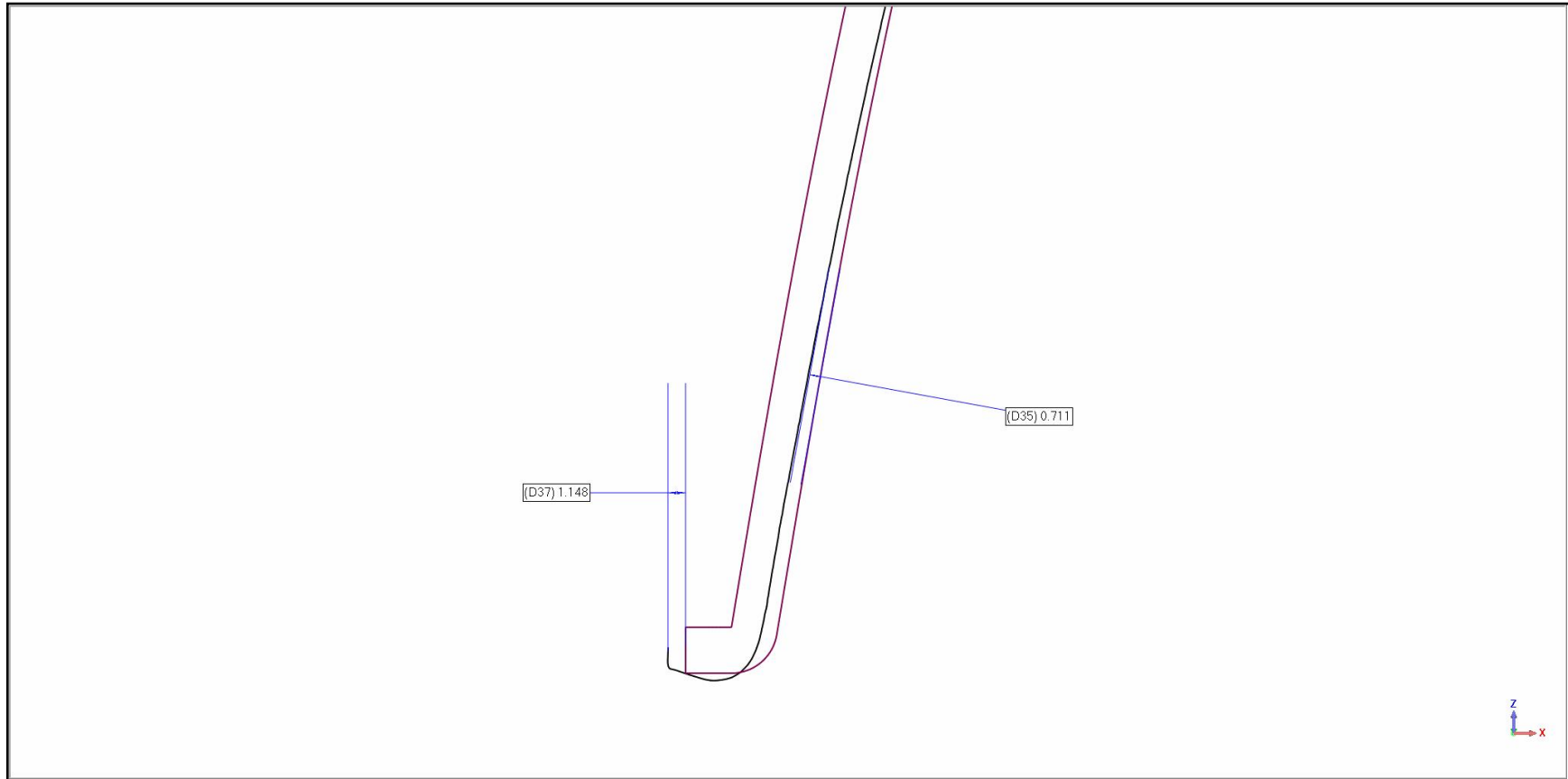


Units: mm

CSYS: World CSYS

INSPECTION REPORT

Dimension 2D: Section D-D1



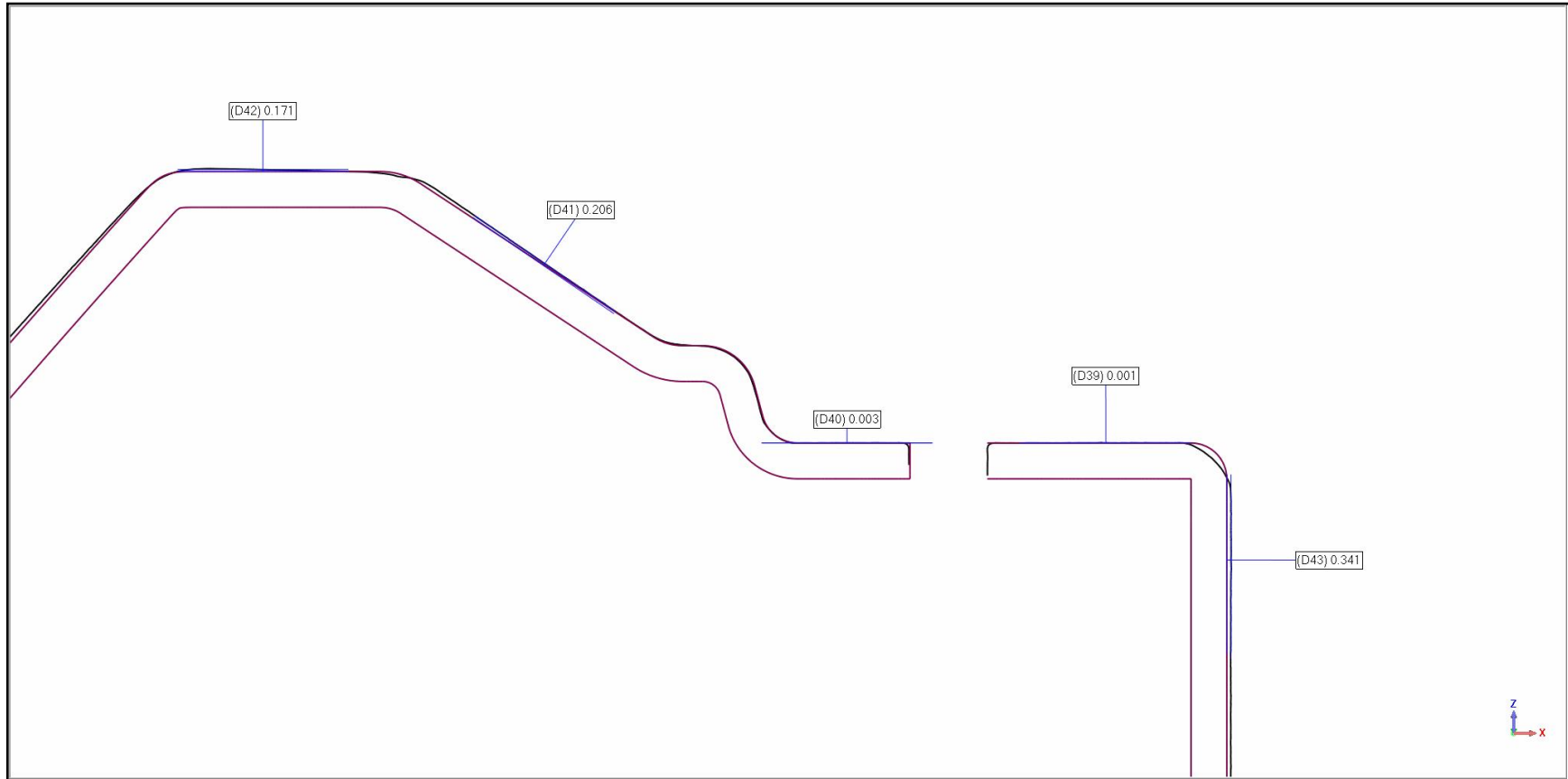
Units: mm

CSYS: World CSYS

Name	Measured	Nominal	Dev	Status	Upper Tol.	Lower Tol.
D35	0.711	0.003	0.708	FAIL	0.500	-0.500
D37	1.148	0.000	1.148	FAIL	0.500	-0.500

INSPECTION REPORT

Dimension 2D: Section D-D2



Units: mm

CSYS: World CSYS

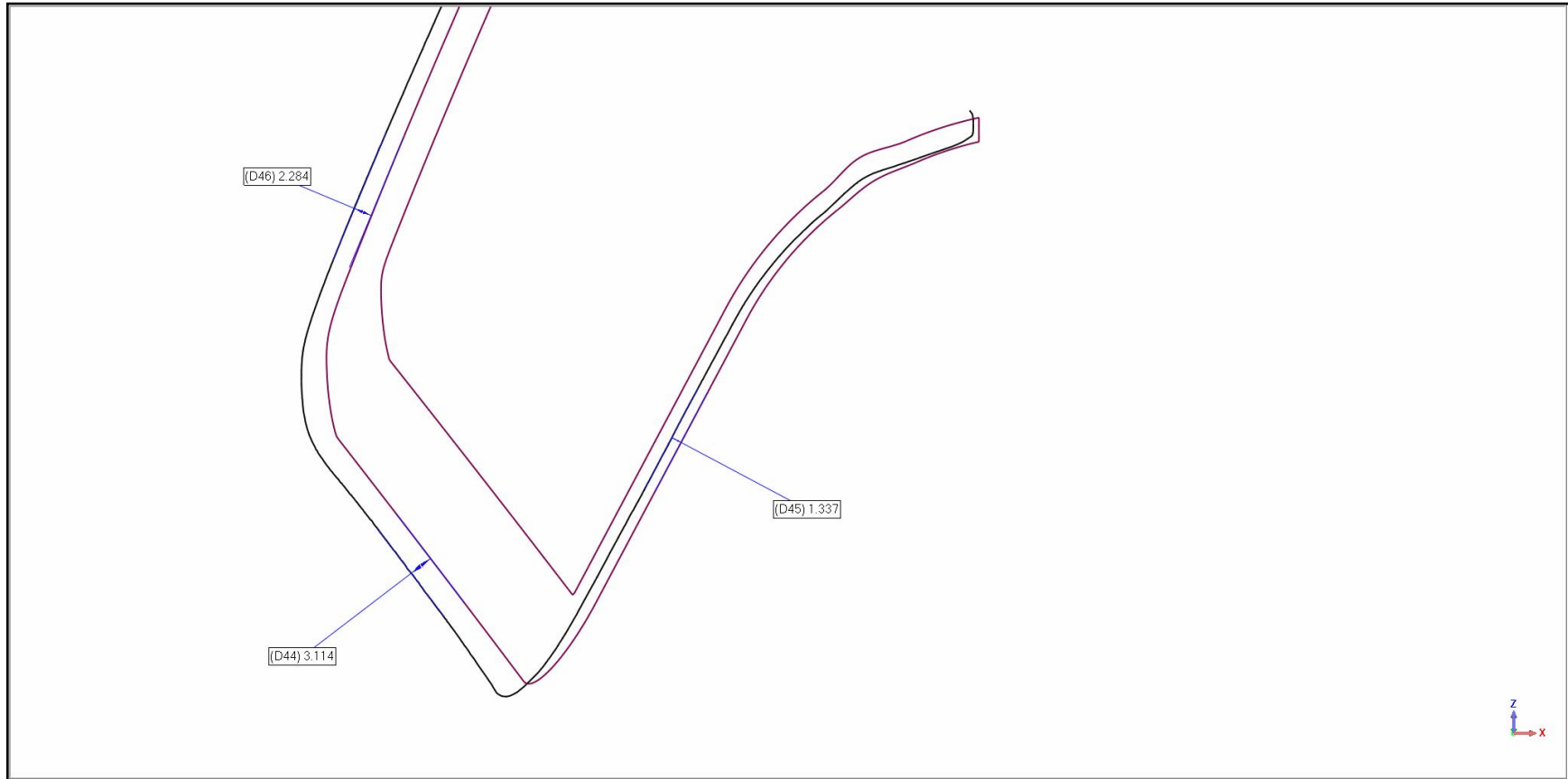
Name	Measured	Nominal	Dev	Status	Upper Tol.	Lower Tol.
D39	0.001	0.000	0.001	PASS	0.500	-0.500
D40	0.003	0.000	0.003	PASS	0.500	-0.500
D41	0.206	0.000	0.206	PASS	0.500	-0.500

INSPECTION REPORT

Name	Measured	Nominal	Dev	Status	Upper Tol.	Lower Tol.
D42	0.171	0.000	0.171	PASS	0.500	-0.500
D43	0.341	0.000	0.341	PASS	0.500	-0.500

INSPECTION REPORT

Dimension 2D: Section D-D3



Units: mm

CSYS: World CSYS

Name	Measured	Nominal	Dev	Status	Upper Tol.	Lower Tol.
D44	3.114	0.000	3.114	FAIL	0.500	-0.500
D45	1.337	0.000	1.337	FAIL	0.500	-0.500
D46	2.284	0.002	2.282	FAIL	0.500	-0.500