

Verification Services

Report No.: 4788659233

Project No.: 4788659233

Report Issued Date: 2018-10-23



TEST REPORT

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Customer Information:

Applicant Information

Company Name : BQT Solutions (SEA) Pte Limited

Address : 41B Neil Road #03-01. Singapore 088824

Manufacturer Information

Company Name : BQT Solutions (NZ) Limited

Address : Unit 4, 101 Diana Drive, Wairau Valley, Auckland 0627, New Zealand

Factory Information

Company Name : BQT Solutions (NZ) Limited

Address : Unit 4, 101 Diana Drive, Wairau Valley, Auckland 0627, New Zealand

Per your request, project 4788659233 was opened, in accordance with your requested test protocol for the evaluation of product model YG80 performance property. The test was to verify Corrosion test (96h and 240h) for EUT ORCA model YG80.

UL Verification Services did not select the sample(s), determine whether the sample(s) was representative of production samples, witness the production of the test sample(s), nor were we provided with information relative to the formulation or identification of component materials used in the test sample(s). The test results apply only to the actual sample(s) tested.

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Report on the submitted sample said to be:

Sample name..... : ORCA
Sample model..... : YG80
Amount of Sample..... : 2 pcs
Sample Received Date : Sep.20.2018
Sample Tested Date..... : Sep.20.2018~ Oct.12.2018

Test Information:

No.	Item(s)	Test Result
1	Corrosion test (96h)	See Appendix 2 for detail.
2	Corrosion test (240h)	See Appendix 3 for detail.

Testing laboratory (Report Stamp)

Reported by: Rachel Xu

Reviewed by: Van Yuan

Date: 2018-10-17

Date: 2018-10-23

Appendix 1

Sample Photos:

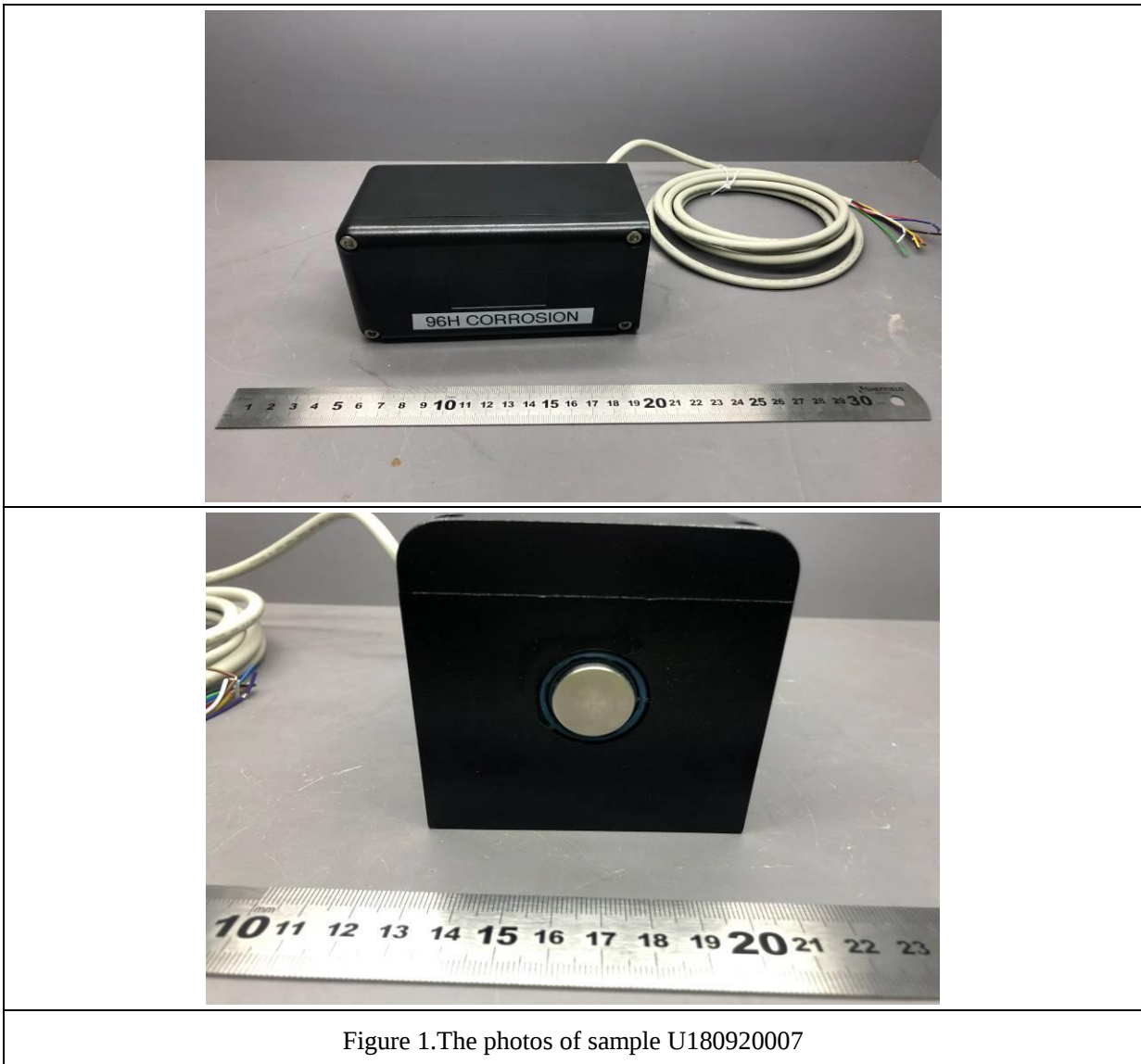
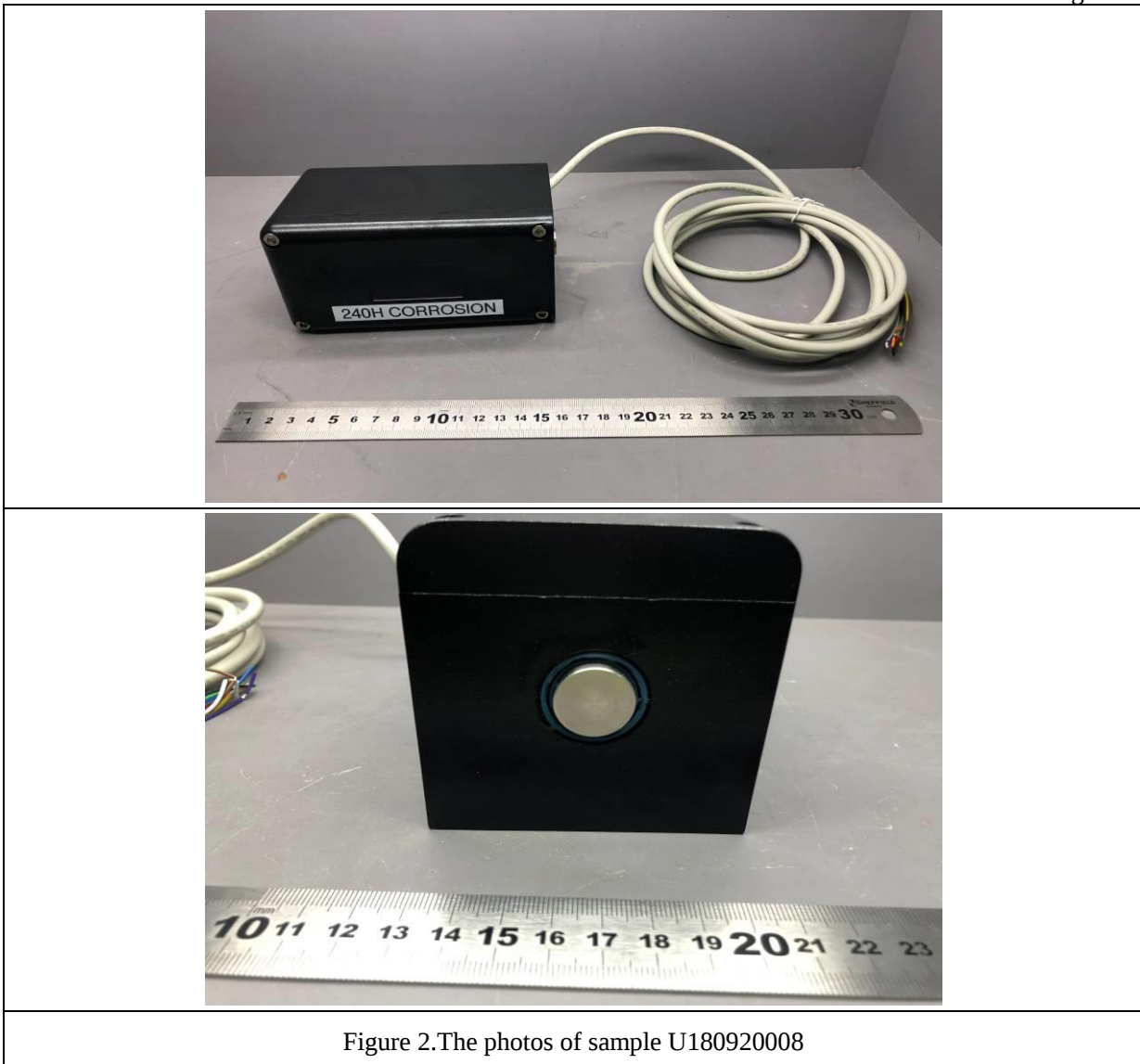


Figure 1. The photos of sample U180920007



Appendix 2

Test Item: Corrosion test (96h)

1. Environment Condition:

Temperature: 24.2°C ; Relative humidity: 50%RH

2. Test Sample:

Sample No.	Sample name	Sample model	Sample photo	Sample Num.
U180920007	ORCA	YG80	See Appendix 1	1pc

3. Test Equipments:

No.	Name	Model No.
1	Salt spray test chamber	AZSA1000

4. Testing Standard:

EN 1670 Building hardware-Corrosion resistance-Requirement and test methods

EN ISO 4628-2: 2016 Paints and varnishes-Evaluation of degradation of coatings-Designation of quantity and size of defects, and of intensity of uniform changes in appearance Part2: Assessment of degree of blistering

5. Test Condition:

Solution concentration: 5% NaCl

Test temperature: (35±2)°C

PH value: 6.9

Precipitation: 1.34ml/h/80cm²

Test time: 96 hours

6. Test method:

1. Check the appearance and function of the product and record the photos.
2. Place the product in the salt spray test chamber. The product was not contacted with the inner wall of the test case.
3. The sedimentation amount and PH value of collecting liquid should be measured periodically.

4. The product shall be carefully wiped up after test.

5. Check the appearance and function of the product and record the photos.

7. Test requirement:

Coated surfaces shall withstand exposure for the time specified without corrosion of the base metal substrate visible to unaided normal or corrected vision excepting an average of one spot per 650mm² of significant surface and without any spots larger than 1.5mm in any direction.

8. Test Result:

Sample No.	Test result
U180920007	After test, there is no obvious corrosion phenomenon. There is no obvious exfoliation of the coating.

9. Test Photos:



Figure 3.The photo of sample U180920007 during test



Figure 4. The photos of sample U180920007 after test

Appendix 3

Test Item: Corrosion test (240h)

1. Environment Condition:

Temperature: 24.2°C ; Relative humidity: 50%RH

2. Test Sample:

Sample No.	Sample name	Sample model	Sample photo	Sample Num.
U180920008	ORCA	YG80	See Appendix 1	1pc

3. Test Equipments:

No.	Name	Model No.
1	Salt spray test chamber	AZSA1000

4. Testing Standard:

EN 1670 Building hardware-Corrosion resistance-Requirement and test methods

EN ISO 4628-2: 2016 Paints and varnishes-Evaluation of degradation of coatings-Designation of quantity and size of defects, and of intensity of uniform changes in appearance Part2: Assessment of degree of blistering

5. Test Condition:

Solution concentration: 5% NaCl

Test temperature: (35±2)°C

PH value: 6.9

Precipitation: 1.39ml/h/80cm²

Test time: 240 hours

6. Test method:

1. Check the appearance and function of the product and record the photos.
2. Place the product in the salt spray test chamber. The product was not contacted with the inner wall of the test case.
3. The sedimentation amount and PH value of collecting liquid should be measured periodically.

4. The product shall be carefully wiped up after test.

5. Check the appearance and function of the product and record the photos.

7. Test requirement:

Coated surfaces shall withstand exposure for the time specified without corrosion of the base metal substrate visible to unaided normal or corrected vision excepting an average of one spot per 650mm² of significant surface and without any spots larger than 1.5mm in any direction.

8. Test Result:

Sample No.	Test result
U180920009	After test, there is no obvious corrosion phenomenon. There is no obvious exfoliation of the coating.

9. Test Photos:

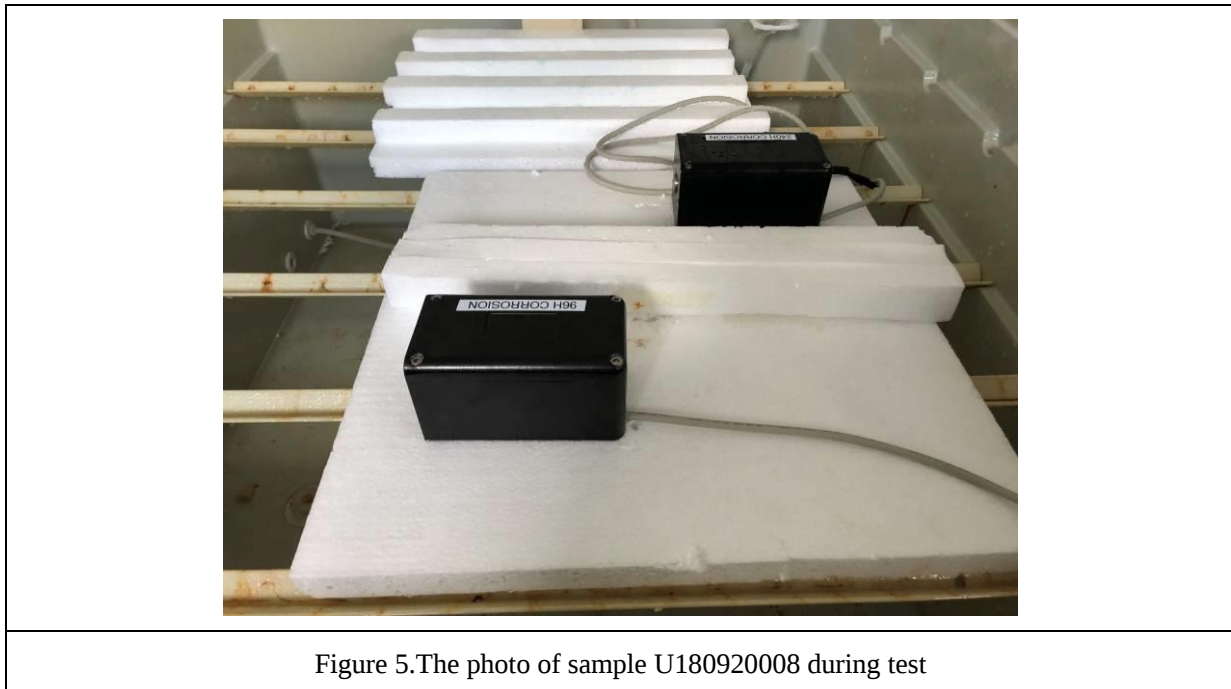




Figure 6.The photos of sample U180920008 after test

*** End of Report ***